Universal Enclosures

More than 50 years protecting your equipment

Catalogue
2012

Schneider Electric

Schneider Electric

More than 50 years protecting your equipment

History

Universal Enclosures, the enclosure range of Schneider Electric, is based on two historical companies and brands created in 1958, Himel with origins in Spain, and Sarel with origins in France. These two companies have developed more than 50 years experience as leading specialists in the design, manufacturing and marketing of enclosure systems that manage installation and protection of automation and electrical devices while ensuring protection and safety in all types of environmental conditions.

Sarel & Himel are the roots of Universal Enclosures.

55000 m²
Industrial sites

1300 employees
Dedicated to developing, manufacturing and delivering products for your needs.

3 Material Solutions

- Steel
- Stainless-steel
- Plastic & Polyester

A permanent customer focus

From users and purchasing advisers, to distributors and those involved in implementation, Schneider Electric integrates their expectations into its global business approach through:

Products — Equipment and materials adapted to all circumstances, whatever the configurations or applications, with all the guarantees of quality, reliability, speed and ease of use.

Services — Customise products to your requirements and respond to specific needs with the greatest flexibility, efficiency and the highest levels of quality.

With this approach, Schneider Electric contributes to its customers competitiveness.

PB500001

PB500002

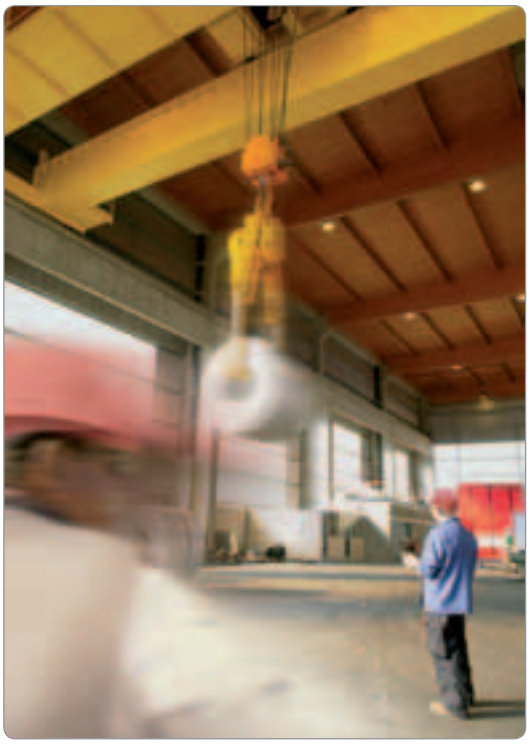
Helping you make the most of your energy

The choice of a worldwide leader
Command of five industrial lines of work

To efficiently meet the needs of professionals in the field of electricity, automation, electronics, VDI and telecom networks, Schneider Electric guarantees through its Quality Assurance processes, control of the industrial lines of work required for manufacturing our products.

Distributed over four sites, covering a total surface of 55000 m² the industrial activities take place in different workshops. Each workshop houses specialised production lines, with functions and equipment for specific production, dedicated to:

- Sheet-steel metalwork.
- Stainless-steel metalwork.
- Injection and extrusion of plastics.
- Hot press-moulding of SMC polyester.
- Logistics.



PB500003

> Quality Assurance to meet customer needs

Our Total Quality approach covers all the stages of product design, manufacturing, ordering and delivery. We take our customers' needs as the focus point of our entire process, from new product development to product delivery from our logistics centres.

This quality is reflected in the ISO 9001 certifications for design, manufacturing and distribution of products and by the ISO 14001 certification for environmental protection.

PB500004

ISO 9001 & ISO 14001
Certified

PB500517

Schneider Electric

Our Universal Enclosures ranges, solutions for each application

Spacial

Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

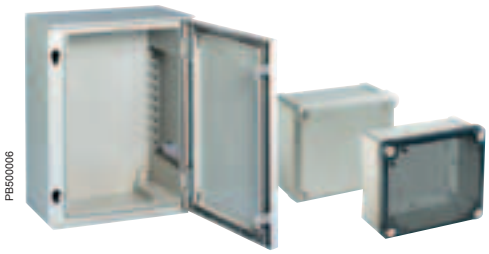
Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

Thalassa

Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.



ClimaSys

Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our Climasys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.

Industry and Infrastructure Offer
A material for every environment

> Steel

Indoor non-clean industrial environment

The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.

- **Universal range**, for industry.
- **E.M.C. range**, against electromagnetic disturbances (treated with Aluzinc).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500013

> Solution:

The Spacial range in steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> 304L - 316L stainless steel.

Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion.
With two grades of stainless steel:

- **304L stainless steel:**
  Resistance to corrosion and cleanability (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel":**
  Very high resistance to corrosion (saline or chlorinated environment).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500014

> Solution:

The Spacial range in stainless steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> Insulating polyester and plastic materials (ABS, polycarbonate)

Severe infrastructures and industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents, and are in contact with the public.

- **Universal range**, for industry and infrastructures.
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500015

PB500016

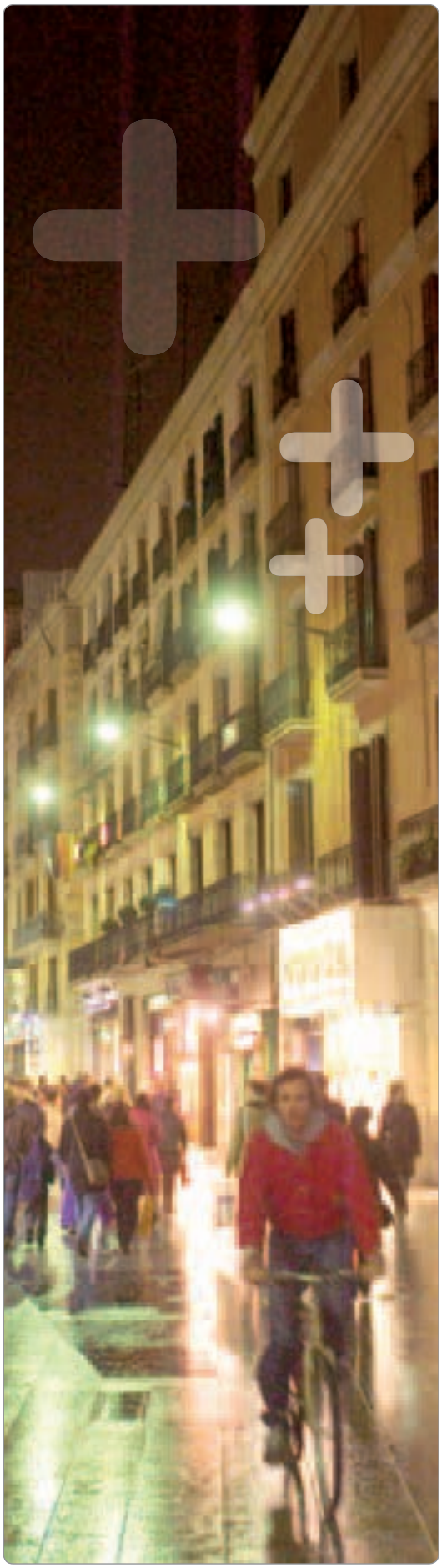
> Solution:

The Thalassa range (boxes, wall-mounting and floor-standing enclosures).

How to select your enclosures & accessories?

Environment	
In what type of environment will you be installing your products?	• Indoor industrial environments, use steel. • Indoor corrosive environments or with specific hygienic demands, use stainless-steel. • Severe corrosive environments, indoor or outdoor, use polyester enclosures. • Always think about the thermal issue. We have the right solution.
Is a canopy required?	A canopy is mandatory when liquid can fall on an enclosure. Our polyester enclosures (PLM and PLAT) are pre-equipped.
Technical requirements	
Are tightness and resistance to external mechanical impact needed in your case?	Each enclosure specifies its: • Tightness: IP. • Resistance to external mechanical impact: IK.
Have you any size-related installation constraints?	Check the dimensions of the enclosure: Height (H) x Width (W) x Depth (D) in mm.
What colours are available?	RAL 7035 is our standard on steel enclosures. RAL 7032 is used for polyester. Other colours are available on demand.
How do you install your enclosures?	Installation possible: • On a wall. • On the floor. • On a post. Available accessories: • Fixing lugs. • Plinths. • Post fixing devices. • Reinforcement for heavy load.
Door	
Need to see inside the enclosure?	Choice of: • Glazed doors. • Acrylic windows. • Control protection frames.
What type of lock do you want?	The type of lock is to be specified: • Inserts. • Keys. • Padlocks.
Do you need an earth connection?	Electrical continuity by earthing braids or leads available as accessories.
How will you mount your raceways to the door? On the uprights? On the rails?	They can be fixed thanks to: • Cable-duct supports. • Door cross-rails. • Cable ties.
Are doors opened for maintenance?	You may need: • Door stops. • Door switches.
Body or frame	
Where do the cables enter the enclosure from?	A large variety of cable entries available.
What functions should this cable-entry provide?	Our cable glands or membranes provide: • Thightness. • Cable supports.
Mounting accessories	
How will the equipment be installed inside your enclosure?	Several mounting plates according to your application: • Plain. • Micro-perforated (Telequick System). • Perforated (Telequick System). • Modular. • 19”.
Do you require cable accessories?	• Cable ducts. • Cable cross rails. • Cable supports… … are available, see our catalogue for more details.
Thermal	
Do you need to cool? Heat? Dry?	• Ventilation louvers. • Ventilation grilles. • Forced ventilations. • Resistance heaters. • Thermostats. • Calculations with ClimaSys software. Refer to our **Thermal Control** section.
Logistics and handling	
How do you handle the enclosures?	**Thanks to eyebolts and lifting brackets.**

Selection tools



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> www.schneider-electric.com

Our international site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Our software suite

> Spacial.pro

Spacial.pro allows you to make switchboard proposals based on the standard offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the Bill of Material and 2D drawings for front/side views.

PB500010

> ProClima

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

PB500011

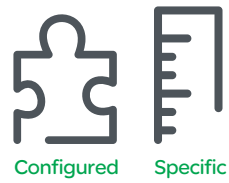
> Spacial.ref Thalassa.ref

These digital rules allow you to select the best components from the current extensive product range without the risk of any mistakes, since product and accessory selection take place automatically, saving you time and money.

PB500012

The customised offer

Two customised services to cover all your needs:



Building the right enclosures for a wide variety of applications is what we do best.

At **Schneider Electric** – **Universal Enclosures** we have developed two customised services based on more than 50 years of experience in the market: a Configured offer (standard modified), and a Specific solution (custom-built enclosures) for a diverse range of industries.

Easier handling
- Hoisting

Safety
- Dedicated packaging

Time-saving
- Factory suite assemblies

PB500518

Efficiency and ergonomics
- Cladding

Improved quality
- Cut-outs before painting

Aesthetics
- Colours

Increased useful life of the equipment
- Thermal

Mounting
- Accessories mounted in our factory

Time saving

We perform machining, mounting of accessories and painting.

Improved quality

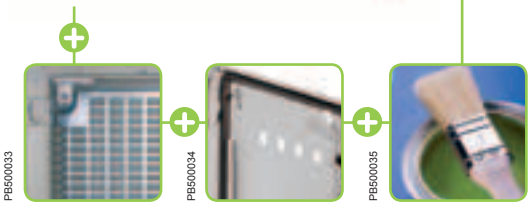
We manufacture customised solutions with our industrial tools
Example: cut-outs made before painting, gasket applied after painting.

The configured offer

If needed, our standard products can also be assembled to order and adapted to your requests, ensuring that you don't have to sacrifice lead-time for a customised solution that's ready to use right out of the box.

PB500032

Standard enclosure


PB500033 PB500034 PB500035

Assembly of standard accessories and claddings, cut-outs and painting.

Configured

Modifying your standard enclosure without modifying your delivery date...
... time saving and improved quality for you!

PB500037

Transport

Our flexible organisation allow us to manage all orders according to your needs, with a guaranteed delivery time.

PB500036

Your configured solutions delivered ready to use!

The standard offer enhanced with two levels of service:

Mounted "assembled to order" offer:

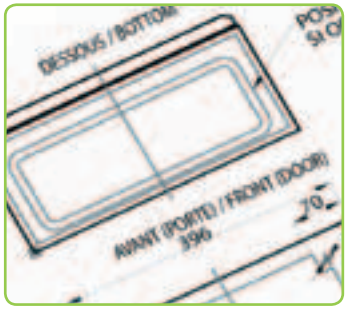
> Configurations with the most common claddings and accessories in RAL 7035.

PB500038

For a quick quote

Choose the enclosures and accessories from the catalogue, consult our planning sheet or contact your local representative.

Quick proposal from us



DB300002

Manufacturing

Save time by making your cut-outs and assemblies based on our DXF diagrams, downloaded from our webpage.

PB500039

Painting and machining

Machining operations are performed before painting to protect against corrosion. Gaskets are applied after painting to keep the standard IP level.

Adapted service:

- Cut-outs (from a list).
- Painting (from our stock colour list).
- Assemblies (for Spacial SF suitable enclosures).
- Standard dimensions.
- Standard claddings (from a list).
- Mounted standard accessories (from a list).

The specific offer

If you decide that a more customised product is right for you, you can choose to modify any of our standard products or start from scratch with a newly designed, comprehensive solution.

PB500040

A co-development service

We create the enclosure in response to your application based on our industrial expertise.

Specific

When standard enclosures don't meet your needs...
... a dedicated organisation will work with you to deliver an enclosure solution that meets your exact specifications.

PB500041

Specific offer

The co-development solution tailor-made for you:

Agreed delivery time

- Cut-outs according to your specific requests
- Painting
- Assemblies
- Special dimensions
- Special claddings
- Mounted standard and special accessories

PB500042EN

Save time

Use our definition help sheets to streamline your design process and help you choose the best enclosure for your application.

PB500043

To receive a quote

Contact your representative and explain your needs. A professional team is at your service to develop your specific solution.

PB500045

For studies

A dedicated technical office will help you define your product.

PB500044

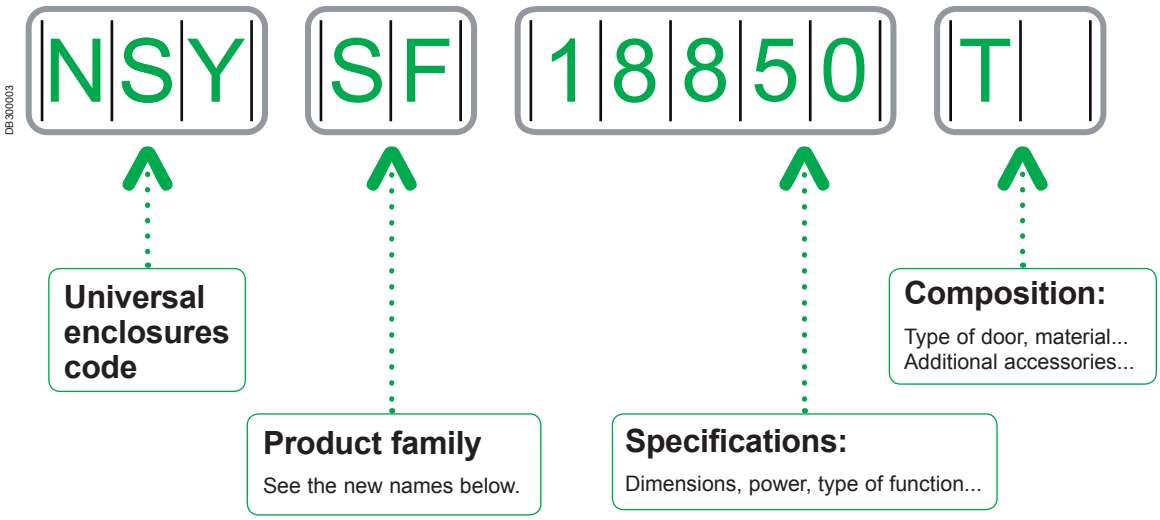
Manufacturing

DXF diagram will be sent for your approval.

Our objective:

Quality and cost by sharing our expertise to help you determine which enclosure would best fit your needs

Understand our references



New product family names:

ClimaSys:

ClimaSys CV Ventilation system
ClimaSys CA Natural Airing
ClimaSys CU Cooling Units
ClimaSys CE Exchangers
ClimaSys CR Resistance Heaters
ClimaSys CC Thermal Control

Thalassa insulating enclosures:

Thalassa TBP Industrial boxes PC (UL)
Thalassa TBS Industrial boxes in ABS
Thalassa PLS Insulating modular boxes
Thalassa PLM Wall-mounting in polyester
Thalassa PLA Floor-standing in polyester
Thalassa PLD Floor-standing DIN in polyester

Spacial metal enclosures:

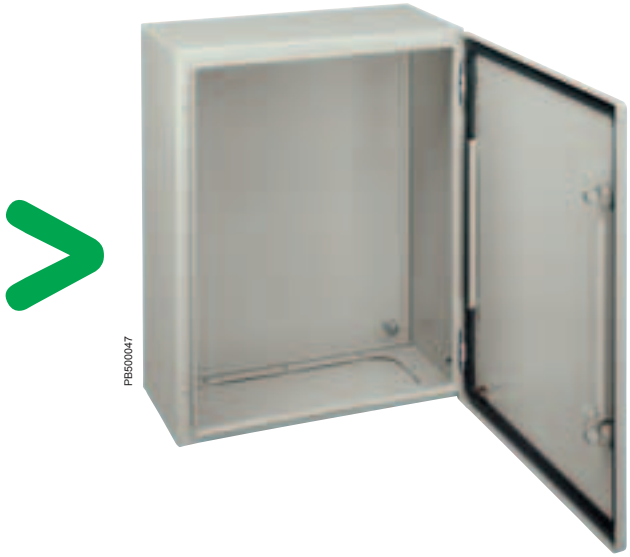
Spacial S44 - S57 - S24 - SDB Steel industrial boxes
Spacial CRN - CRNG Steel Wall-mounting
Spacial SF Steel floor-standing suitable
Spacial SM Steel floor-standing compact
Spacial SD Steel Control desk
Spacial S3X Stainless-steel wall-mounting
Spacial SMX Stainless-steel floor-standing monobloc
Spacial SFX Stainless-steel floor-standing suitable
Spacial SDX Stainless-steel control desk

Schneider Electric: brings you a brighter future

The colour RAL 7035 is now standard across our range of industrial enclosures.

RAL 7032

PB500046



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RAL 7035

Why change?

This colour change is in direct response to customer requests and market trends.

What products will be affected?

All our **Spacial** range of metal industrial products:
- Boxes.
- Wall-mounting enclosures.
- Floor-standing enclosures.
- Climasys thermal products.
- Many accessories associated with these products will also be available in RAL 7035.

How can I obtain RAL 7032 enclosures?

Through our customisation service: the configured and specific offers allow you to quickly obtain RAL 7032 enclosures with industrial quality.

Will the new RAL 7035 colour offer the same properties as RAL 7032?

Yes, our paint will continue to meet all recognised standards.

Spacial Steel

Boxes
From 74 x 74 mm
To 500 x 300 mm

PB500065

S44 Industrial boxes IP 66
S57 Screw fixed cover boxes IP 66
S24 Safety boxes IP 55
SDB Derivation boxes

Wall-mounting enclosures
From 300 x 200 mm
To 1200 x 1000 mm

PB500066

CRN Wall-mounting steel
- **S3DB** Terminal enclosures
- **S3DBFL** Terminal enclosures with FL21 cut-out
- **S3DM** Distribution modular enclosures
- **VDM** 19" enclosures
- **S3DEX** Potentially explosive atmospheres
- **S3HF** Electromagnetic compatibility

Floor-standing enclosures
From 500 x 500 mm
To 2200 x 1600 mm

PB500067

SM Floor-standing compact
SF Floor-standing suitable
- Compartimentalised application
- Electronic application
- Power distribution
- Prisma Plus application
- Automobile application

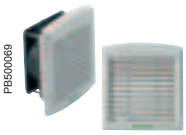
Human-Machine Interface enclosures

PB500068

PB500208

S3CM Control enclosures with suspension system
SD Compact control desks
SDF Control desks with console
SF PC rack

ClimaSys
Thermal management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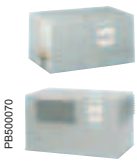
CV-CA
Ventilation/Airing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CE Exchangers

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CU Cooling Units

Accessories

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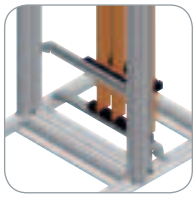
Mounting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Power distribution

PB500023

Cable management

Customised offer available, please contact us.

Spacial Stainless-steel

Thalassa Insulating materials

PLS Insulating modular boxes
TBP Polycarbonate industrial boxes
TBS ABS industrial boxes

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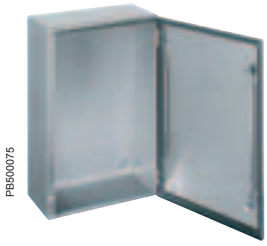
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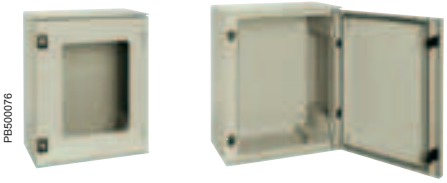
S3X Wall-mounting
S3XEX Potentially explosive atmospheres

PLM Wall-mounting polyester
PLMEX Potentially explosive atmospheres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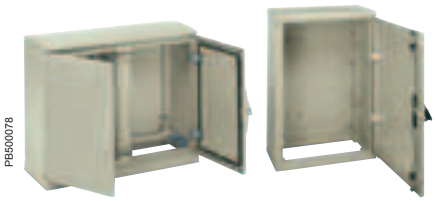
SMX Floor-standing monobloc
SFX Floor-standing suitable

PLA Floor-standing polyester enclosures
PLD Floor-standing DIN polyester enclosures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SDX Control desk
SMX PC rack

PB500080

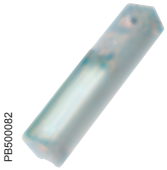
CR Resistance Heaters

PB500081

CC Thermal Control

PB500011

ProClima 5.0
Thermal software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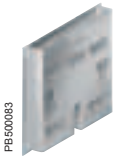
Lighting & sockets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Door accessories

PB500084

Earthing

Customised offer available, please contact us.

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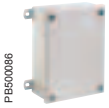
Steel industrial boxes
Selection guide

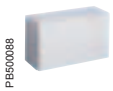
Metallic junction boxes SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 2	124	74	56	**NSYPMD1510**	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520**	**NSYDB2520M**	3 n° 4	2 n° 4	220	170	88	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025**	**NSYDB3025M**	2 n° 3, 2 n° 4	3 n° 4	268	218	110	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530**	**NSYDB3530M**	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	**NSYPMD3530**	4.8
High cover models	155	105	88	**NSYDAN1510**	**NSYDA1510M**	3 n° 2	1 n° 2	124	74	83	**NSYPMD1510**	0.45
	206	156	122	**NSYDAN2015**	**NSYDA2015M**	3 n° 3	2 n° 3	172	122	121	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520**	**NSYDA2520M**	3 n° 4	2 n° 4	220	170	131	**NSYPMD2520**	1.9

Small metallic enclosures SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	**NSYDBN2015D**	172	122	78	55	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520D**	220	170	88	55	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025D**	268	218	110	55	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530D**	318	268	130	55	**NSYPMD3530**	4.8
High cover models	206	156	122	**NSYDAN2015D**	172	122	121	45	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520D**	220	170	131	45	**NSYPMD2520**	1.9
	307	257	174	**NSYDAN3025D**	268	218	168	45	**NSYPMD3025**	4
	357	307	210	**NSYDAN3530D**	318	268	204	45	**NSYPMD3530**	5.8



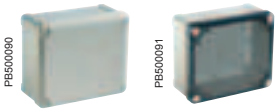


External dimensions (mm)			S24 range Opaque door + screws	Steel industrial box references S44			S57 range IK 10
				IK 08			
Height	Width	Depth		Empty	Plate	Uprights (1)	
80	80	45	-	**NSYSBS884**	-	-	-
100	100	55	-	**NSYSBS10105**	-	-	-
130	130	60	-	**NSYSBS13136**	-	-	-
160	160	65	-	**NSYSBS16166**	-	-	-
165	120	65	-	**NSYSBS16126**	**NSYSBS16126S**	-	-
180	130	96	**NSYSBS18139F**		-	-	-
180	165	96	**NSYSBS18169F**		-	-	-
200	200	90	-	**NSYSBS20209**	**NSYSBS20209S**	-	-
230	210	126	**NSYSBS232112F**		-	-	-
250	250	100	-	**NSYSBS252510**	**NSYSBS252510S**	-	-
300	200	110	-		-	**NSYSBS302011R**	-
300	200	150	-		-	-	**NSYSBS302015**
300	300	100	-	**NSYSBS303010**	**NSYSBS303010S**	-	-
300	300	150	-		-	-	**NSYSBS303015**
400	200	110	-		-	**NSYSBS402011R**	-
400	300	150	-		-	-	**NSYSBS403015**
400	400	110	-	**NSYSBS404011**	**NSYSBS404011S**	-	-
500	200	110	-		-	**NSYSBS502011R**	-
500	300	110	-		-	**NSYSBS503011R**	-
500	300	200	-		-	-	**NSYSBS503020**
600	200	110	-		-	**NSYSBS602011R**	-
600	300	110	-		-	**NSYSBS603011R**	-

(1) Uprights along small sides (Width)

Insulating industrial boxes
Selection guide

Universal boxes with IP 66



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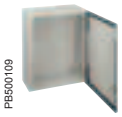
Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
								ABS IP 66 IK 07		PC-UL IP 66 IK 08	
Height	Width	Depth	Height	Width	Depth			Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
116	74	94	105	65	85	45	40	NSYTBS1179H	-	-	-
116	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
116	116	133	105	105	125	45	80	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	121	105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
192	164	105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
241	194	107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
291	241	128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
341	291	168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Modular boxes

Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827	NSYPLSC1827	NSYPLSP1827	NSYPLS1827L	56
270	270	180	NSYPLS2727	NSYPLSC2727	NSYPLSP2727	NSYPLS2727L	56
270	270	230	NSYPLS2727A	NSYPLSC2727A		NSYPLS2727AL	56
270	360	180	NSYPLS2736	NSYPLSC2736	NSYPLSP2736	NSYPLS2736L	56
270	360	230	NSYPLS2736A	NSYPLSC2736A	-	NSYPLS2736AL	56
270	540	180	NSYPLS2754	NSYPLSC2754	NSYPLSP2754	NSYPLS2754L	28
270	540	230	NSYPLS2754A	NSYPLSC2754A	-	NSYPLS2754AL	28
360	360	180	NSYPLS3636	NSYPLSC3636	NSYPLSP3636	NSYPLS3636L	28
360	540	180	NSYPLS3654	NSYPLSC3654	NSYPLSP3654	NSYPLS3654L	28
360	540	230	NSYPLS3654A	NSYPLSC3654A	-	NSYPLS3654AL	28
360	720	230	NSYPLS3672A	NSYPLSC3672A	-	NSYPLS3672AL	27
540	540	180	NSYPLS5454	NSYPLSC5454	NSYPLSP5454	NSYPLS5454L	14
540	540	230	NSYPLS5454A	NSYPLSC5454A	-	NSYPLS5454AL	14
540	720	230	NSYPLS5472A	NSYPLSC5472A	-	NSYPLS5472AL	14

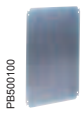
Steel wall-mounting enclosures
Selection guide

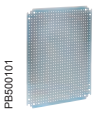


Dimensions			No. of doors	IP	Weight (1)	Plain door with mounting plate	Plain door without mounting plate	Glazed door without mounting plate	
H	W	D							
						Page 64			
CRN Wall-mounting steel enclosures									
200	200	150	1	66	2.5	-	**NSYCRN22150** (2)	-	
200	300	150	1	66	3.9	-	**NSYCRN23150** (2)	-	
250	200	150	1	66	3.2	**NSYCRN252150P**	**NSYCRN252150**	-	
300	250	150	1	66	4.2	**NSYCRN325150P**	**NSYCRN325150**	**NSYCRN325150T**	
300	250	200	1	66	4.9	**NSYCRN325200P**	**NSYCRN325200**	**NSYCRN325200T**	
300	300	150	1	66	5.0	**NSYCRN33150P**	**NSYCRN33150**	**NSYCRN33150T**	
300	300	200	1	66	6.0	**NSYCRN33200P**	**NSYCRN33200**	**NSYCRN33200T**	
300	400	200	1	66	6.4	-	**NSYCRN34200**	**NSYCRN34200T**	
300	450	150	1	66	6.7	-	**NSYCRN345150** (2)	-	
400	300	150	1	66	6.0	**NSYCRN43150P**	**NSYCRN43150**	**NSYCRN43150T**	
400	300	200	1	66	6.8	**NSYCRN43200P**	**NSYCRN43200**	**NSYCRN43200T**	
400	400	200	1	66	8.0	**NSYCRN44200P**	**NSYCRN44200**	**NSYCRN44200T**	
400	600	250	1	66	10.0	**NSYCRN46250P**	**NSYCRN46250**	**NSYCRN46250T**	
400	600	300	1	66	11.2	**NSYCRN46300P**	**NSYCRN46300**	**NSYCRN46300T**	
500	400	150	1	66	8.7	**NSYCRN54150P**	**NSYCRN54150**	**NSYCRN54150T**	
500	400	200	1	66	9.8	**NSYCRN54200P**	**NSYCRN54200**	**NSYCRN54200T**	
500	400	250	1	66	11.0	**NSYCRN54250P**	**NSYCRN54250**	**NSYCRN54250T**	
500	500	250	1	66	12.8	**NSYCRN55250P**	**NSYCRN55250**	**NSYCRN55250T**	
600	400	150	1	66	9.3	**NSYCRN64150P**	**NSYCRN64150**	**NSYCRN64150T**	
600	400	200	1	66	10.8	**NSYCRN64200P**	**NSYCRN64200**	**NSYCRN64200T**	
600	400	250	1	66	12.3	**NSYCRN64250P**	**NSYCRN64250**	**NSYCRN64250T**	
600	500	150	1	66	11.3	**NSYCRN65150P**	**NSYCRN65150**	**NSYCRN65150T**	
600	500	200	1	66	14.3	**NSYCRN65200P**	**NSYCRN65200**	**NSYCRN65200T**	
600	500	250	1	66	16.2	**NSYCRN65250P**	**NSYCRN65250**	**NSYCRN65250T**	
600	600	200	1	66	16.3	-	**NSYCRN66200**	**NSYCRN66200T**	
600	600	250	1	66	18.2	**NSYCRN66250P**	**NSYCRN66250**	**NSYCRN66250T**	
600	600	300	1	66	19.8	**NSYCRN66300P**	**NSYCRN66300**	**NSYCRN66300T**	
600	800	300	1	66	26.0	-	**NSYCRN68300**	**NSYCRN68300T**	
700	500	200	1	66	17.3	**NSYCRN75200P**	**NSYCRN75200**	**NSYCRN75200T**	
700	500	250	1	66	19.3	**NSYCRN75250P**	**NSYCRN75250**	**NSYCRN75250T**	
800	600	200	1	66	21.8	**NSYCRN86200P**	**NSYCRN86200**	**NSYCRN86200T**	
800	600	250	1	66	24.8	**NSYCRN86250P**	**NSYCRN86250**	**NSYCRN86250T**	
800	600	300	1	66	26.3	**NSYCRN86300P**	**NSYCRN86300**	**NSYCRN86300T**	
800	800	200	1	66	29.5	**NSYCRN88200P**	**NSYCRN88200**	**NSYCRN88200T**	
800	800	300	1	66	32.5	**NSYCRN88300P**	**NSYCRN88300**	**NSYCRN88300T**	
1000	600	250	1	66	28.4	**NSYCRN106250P**	**NSYCRN106250**	**NSYCRN106250T**	
1000	600	300	1	66	30.6	**NSYCRN106300P**	**NSYCRN106300**	**NSYCRN106300T**	
1000	800	250	1	66	34.5	**NSYCRN108250P**	**NSYCRN108250**	**NSYCRN108250T**	
1000	800	300	1	66	37.4	**NSYCRN108300P**	**NSYCRN108300**	**NSYCRN108300T**	
CRNG Wall-mounting steel enclosures with three-point locking system									
800	600	400	1	66	30.0	-	**NSYCRNG86400**	**NSYCRNG86400T**	
800	1000	300	2	55	40.0	-	**NSYCRNG810300D**	-	
800	1200	300	2	55	46.0	-	**NSYCRNG812300D**	-	
1000	600	400	1	66	36.0	-	**NSYCRNG106400**	**NSYCRNG106400T**	
1000	800	400	1	66	43.0	-	**NSYCRNG108400**	**NSYCRNG108400T**	
1000	1000	300	2 (3)	55	47.0	-	**NSYCRNG1010300D**	**NSYCRNG1010300T**	
1000	1200	300	2	55	55.0	-	**NSYCRNG1012300D**	-	
1000	1200	400	2	55	60.0	-	**NSYCRNG1012400D**	-	
1200	600	300	1	66	37.0	-	**NSYCRNG126300**	**NSYCRNG126300T**	
1200	600	400	1	66	42.0	-	**NSYCRNG126400**	**NSYCRNG126400T**	
1200	800	300	1	66	45.0	-	**NSYCRNG128300**	**NSYCRNG128300T**	
1200	800	400	1	66	50.0	-	**NSYCRNG128400**	**NSYCRNG128400T**	
1200	1000	300	2	55	56.0	-	**NSYCRNG1210300D**	-	
1200	1000	400	2	55	61.0	-	**NSYCRNG1210400D**	-	
1200	1200	300	2	55	64.0	-	**NSYCRNG1212300D**	-	
1200	1200	400	2	55	90.0	-	**NSYCRNG1212400D**	-	
1400	1000	300	2	55	80.0	-	**NSYCRNG1410300D**	-	

(1) Enclosure without mounting plate.
(2) Two cable gland plates, one on the top, one on the bottom.
(3) Except glazed door in single door.

Steel wall-mounting enclosures
Selection guide

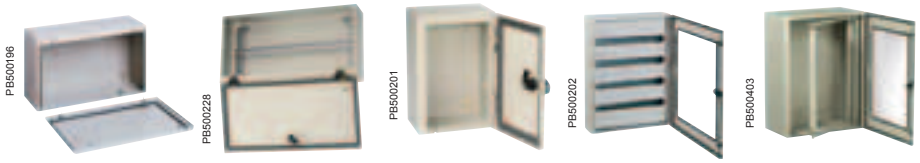




	Plain	Silkscreened	Microperforated	Telequick	Bakelite	DIN rails chassis	Step slides
	Page 324		Page 325	Page 326	Page 328	Page 329	Page 330
	NSYMM22	-	-	-	-	-	-
	NSYMM32	-	NSYMF32	-	NSYMB32	-	-
	NSYMM2520	-	-	-	-	-	-
	NSYMM3025	-	-	NSYMR3025	NSYMB3025	-	-
	NSYMM3025	-	-	NSYMR3025	NSYMB3025	-	NSYSDCR200
	NSYMM33	-	NSYMF33	NSYMR33	NSYMB33	NSYMD33	-
	NSYMM33	-	NSYMF33	NSYMR33	NSYMB33	NSYMD33	NSYSDCR200
	NSYMM43	NSYMS43	NSYMF43	NSYMR34	NSYMB43	-	NSYSDCR200
	NSYMM3045	-	-	-	NSYMB43	-	-
	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMD43	-
	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMD43	NSYSDCR200
	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	-	NSYSDCR200
	NSYMM64	NSYMS64	NSYMF64	NSYMR46	NSYMB64	-	NSYSDCR250
	NSYMM64	NSYMS64	NSYMF64	NSYMR46	NSYMB64	-	NSYSDCR300
	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMD54	-
	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMD54	NSYSDCR200
	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMD54	NSYSDCR250
	NSYMM55	NSYMS55	NSYMF55	NSYMR55	-	-	NSYSDCR250
	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMD64	-
	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMD64	NSYSDCR200
	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMD64	NSYSDCR250
	NSYMM65	-	NSYMF65	NSYMR65	NSYMB65	-	-
	NSYMM65	-	NSYMF65	NSYMR65	NSYMB65	-	NSYSDCR200
	NSYMM65	-	NSYMF65	NSYMR65	NSYMB65	-	NSYSDCR250
	NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	NSYSDCR200
	NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	NSYSDCR250
	NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	NSYSDCR300
	NSYMM86	NSYMS86	NSYMF86	NSYMR68	-	-	NSYSDCR300
	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMD75	NSYSDCR200
	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMD75	NSYSDCR250
	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	NSYSDCR200
	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	NSYSDCR250
	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	NSYSDCR300
	NSYMM88	-	NSYMF88	NSYMR88	-	-	NSYSDCR200
	NSYMM86	-	NSYMF88	NSYMR88	-	-	NSYSDCR300
	NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	NSYSDCR250
	NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	NSYSDCR300
	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	NSYSDCR250
	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	NSYSDCR300
	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	NSYSDCR400
	NSYMM108	-	NSYMF108	NSYMR810	-	-	NSYSDCR300
	NSYMM128	-	NSYMF128	2 x **NSYMR86***	-	-	NSYSDCR300**
	NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	NSYSDCR400
	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	NSYSDCR400
	NSYMM1010	-	NSYMF1010	**NSYMR1010** (4)	NSYMB1210	-	NSYSDCR300
	NSYMM1210	-	NSYMF1210	**NSYMR1012** (4)	NSYMB1210	-	NSYSDCR300**
	NSYMM1210	-	NSYMF1210	**NSYMR1012** (4)	-	-	NSYSDCR400**
	NSYMM126	-	NSYMF126	NSYMR126	-	-	NSYSDCR300
	NSYMM126	-	NSYMF126	NSYMR126	-	-	NSYSDCR400
	NSYMM128	-	NSYMF128	NSYMR128	-	NSYMD128	NSYSDCR300
	NSYMM128	-	NSYMF128	NSYMR128	-	NSYMD128	NSYSDCR400
	NSYMM1210	-	NSYMF1210	**NSYMR1210** (4)	NSYMB1210	-	NSYSDCR300
	NSYMM1210	-	NSYMF1210	**NSYMR1210** (4)	NSYMB1210	-	NSYSDCR400
	NSYMM1212	-	2 x **NSYMF126***	2 x **NSYMR126***	-	-	NSYSDCR300**
	NSYMM1212	-	2 x **NSYMF126***	2 x **NSYMR126***	-	-	NSYSDCR400**
	NSYMM1410	-	-	**NSYMR1410** (4)	-	-	NSYSDCR300

(4) Ref. **NSYEMR** mandatory.
*Order **NSYCRNGSDR** to mount double mounting plate.
Except for double mounting plate, order in addition ref. **NSYSDRSDCR300 (D300) or **NSYSDRSDCR400** (D400).

Selection guide for applicative offer wall-mounting enclosures

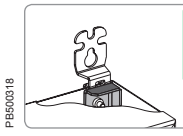


Specifications					Basic enclosures					
					Empty application enclosures					
Dimensions			N° of doors	IP	Steel industrial boxes, IP 66 Spacial S57	S3DB terminal enclosures (1)	FL terminal enclosures (1)	S3DM modular enclosures with glazed door (1)	VDM steel enclosures with 19" swing rack	
H	W	D			Page 53	Page 600	Page 602	Page 580	Page 614	
200	300	150	1	66	NSYSBS302015					
250	300	150	1	66		NSYS3DB25315				
250	400	150	1	66		NSYS3DB25415				
250	500	150	1	66		NSYS3DB25515				
300	300	150	1	66	NSYSBS303015	NSYS3DB3315				
300	300	170	1	66			NSYS3DBFL3317			
300	400	150	1	66	NSYSBS403015	NSYS3DB3415				
300	400	170	1	66			NSYS3DBFL3417			
300	500	150	1	66		NSYS3DB3515				
300	500	200	1	66	NSYSBS503020					
300	600	150	1	66		NSYS3DB3615				
300	600	400	1	66					NSYVDM4U4P	
300	600	500	1	66						
400	300	150	1	66		NSYS3DB4315		NSYS3DM4315T		
400	300	170	1	66			NSYS3DBFL4317			
400	600	400	1	66					NSYVDM7U4P	
400	600	500	1	66						
400	800	150	1	66		NSYS3DB4815				
500	400	150	1	66		NSYS3DB5415		NSYS3DM5415T		
500	600	400	1	66					NSYVDM9U4P	
500	600	500	1	66						
600	400	150	1	66		NSYS3DB6415		NSYS3DM6415T		
600	600	150	1	66				NSYS3DM6615T		
700	500	150	1	66						
700	500	150	1	66				NSYS3DM7515T		
700	600	400	1	66					NSYVDM13U4P	
700	600	500	1	66						
800	600	150	1	66						
800	600	150	1	66				NSYS3DM8615T		
800	600	400	1	66					NSYVDM16U4P	
800	600	500	1	66						
1000	600	150	1	66				NSYS3DM10615T		
1000	800	150	1	66				NSYS3DM10815T		

(1) Empty enclosure.

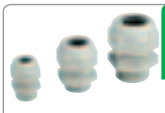
Wall-fixing brackets

Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**



Reinforcement for heavy loads

NSYAEFAHLBSC



Cable gland

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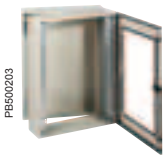
Specific

Do you need other dimensions? Do you require a special colour or cut-outs? All these enclosures can be customised. See our specific offer, page 9.


PB500203

PB500408

PB500404

PB500072

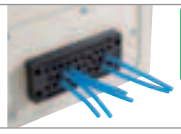
PB500102

PB500105

						Accessories					
19″ enclosure with glazed door (2)						Electricity distribution		Automatism			
	Number of U	1-body 19″ fixed rack	Number of U	2 parts with 19″ fixed rack	Number of U	Modular mounting chassis (metallic)	Nº of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
		Page 614		Page 614		Page 382			Page 324	Page 326	Page 331
								NSYAMRD2030	NSYMM32		
								NSYAMRD2530	NSYMM3025		
								NSYAMRD2540	NSYMM2540		
								NSYAMRD2550	NSYMM2550		
								NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
								NSYAMRD3030	NSYMM33	NSYMR33	
								NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
								NSYAMRD3040	NSYMM43	NSYMR34	
								NSYAMRD3050	NSYMM53		NSYMDVR3
								NSYAMRD3050	NSYMM53		NSYMDVR3
								NSYAMRD36	NSYMM36		NSYMDVR3
	4	NSYVDM5U4F	5	NSYVD2M5U4	5			NSYAMRD36	NSYMM36		NSYMDVR3
				NSYVD2M5U5	5			NSYAMRD36	NSYMM36		NSYMDVR3
						NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
								NSYAMRD43	NSYMM43	NSYMR43	
	7	NSYVDM8U4F	8	NSYVD2M8U4	8				NSYMM64	NSYMR46	NSYMDVR4
				NSYVD2M8U5	8			NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
								NSYAMRD54	NSYMM48		NSYMDVR4
						NSYDLM48	48		NSYMM54	NSYMR54	NSYMDVR5
	9	NSYVDM10U4F	10	NSYVD2M10U4	10				NSYMM65		NSYMDVR5
				NSYVD2M10U5	10				NSYMM65		NSYMDVR5
						NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
						NSYDLM84P	84		NSYMM66	NSYMR66	NSYMDVR6
						NSYDLM66	66		NSYMM75	NSYMR75	NSYMDVR7
						NSYDLM88	88		NSYMM75	NSYMR75	NSYMDVR7
	13	NSYVDM14U4F	14	NSYVD2M14U4	14						NSYMDVR7
				NSYVD2M14U5	14						NSYMDVR7
						NSYDLM84/ NSYDLM112			NSYMM86	NSYMR86	NSYMDVR8
						NSYDLM84/ NSYDLM112			NSYMM86	NSYMR86	NSYMDVR8
	16	NSYVDM17U4F	17	NSYVD2M17U4	17				NSYMM86	NSYMR86	NSYMDVR8
				NSYVD2M17U5	17				NSYMM86	NSYMR86	NSYMDVR8
						NSYDLM168/ NSYDLM240			NSYMM106	NSYMR106	NSYMDVR10
						NSYDLM168/ NSYDLM240			NSYMM108	NSYMR108	NSYMDVR10

(2) Plain door, please consult us.

PB500106


PB500023

Other cable entries

Page **430**

PB500107

Clip-on nuts

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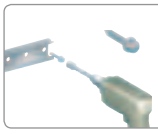
PB500108

Self-tapping screw

ref. **NSYS13M5HS**

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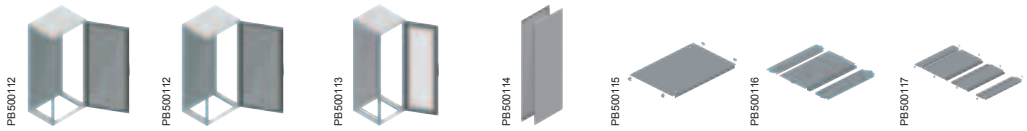
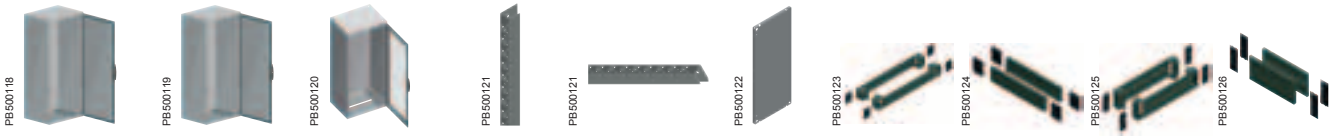
Steel floor-standing enclosures
Selection guide



Nominal dimensions (mm)			No. of doors	Spacial SF						
				Plain door		Transparent door	Side panels (fixing from the outside)	Cable-gland plate		
Height	Width	Depth		With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
1200	800	300	1	-	-	-	-	-	-	-
1200	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1200	1000	300	2	-	-	-	-	-	-	-
1200	1200	400	2	-	-	-	-	-	-	-
1400	600	300	1	-	-	-	-	-	-	-
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
1400	800	300	1	-	-	-	-	-	-	-
1400	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1400	1000	400	2	-	-	-	-	-	-	-
1400	1200	400	2	-	-	-	-	-	-	-
1600	600	300	1	-	-	-	-	-	-	-
1600	600	400	1	-	-	-	-	-	-	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
1600	800	300	1	-	-	-	-	-	-	-
1600	800	400	1	-	-	-	-	-	-	-
1600	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1600	1000	300	2	-	-	-	-	-	-	-
1600	1000	400	2	-	-	-	-	-	-	-
1600	1200	300	2	-	-	-	-	-	-	-
1600	1200	400	2	-	-	-	-	-	-	-
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
1800	400	500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
1800	400	600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	NSYEC462
1800	600	300	1	-	-	-	-	-	-	-
1800	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
1800	800	300	1	-	-	-	-	-	-	-
1800	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
1800	1000	500	2	-	-	-	-	-	-	-
1800	1000	600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1000	600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1200	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-
1800	1200	500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
1800	1600	400	2	-	-	-	-	-	-	-
1800	1600	500	2	-	-	-	-	-	-	-
2000	300	500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-
2000	300	600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
2000	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
2000	400	500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
2000	400	600	1	-	NSYSF20460	-	NSY2SP206	-	NSYEC461	NSYEC462
2000	400	800	1	-	NSYSF20480	-	NSY2SP208	-	NSYEC481	NSYEC482
2000	600	300	1	-	-	-	-	-	-	-
2000	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
2000	600	500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
2000	600	600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
2000	600	800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
2000	800	300	1	-	-	-	-	-	-	-
2000	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
2000	1000	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
2000	1200	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-
2000	1200	500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-
2000	1200	600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
2000	1200	800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
2000	1600	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-
2000	1600	500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-
2000	1600	600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	NSYEC462
2200	600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
2200	600	800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

Spacial SF - SM



Spacial SM					Accessories SF/SM				
Plain door		Transparent door	Vertical adaptation profiles	Horizontal adaptation profiles	Mounting plate	Plinth height 100 mm		Plinth height 200 mm	
With mounting plate	Without mounting plate	Without mounting plate				Front kit	Side panels	Front kit	Side panels
-	-	-	-	-	NSYMP126	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
-	-	-	-	-	NSYMP126	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
NSYSM12830P	NSYSM12830	-	NSYSMVR12	NSYSMHR8	NSYMP128	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
-	-	-	-	-	NSYMP128	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
-	-	-	-	-	NSYMP128	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
NSYSM1210302DP	NSYSM1210302D	-	NSYSMVR12	NSYSMHR10	NSYMP1210	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
NSYSM1212402DP	NSYSM1212402D	-	NSYSMVR12	NSYSMHR12	NSYMP1212	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
NSYSM14630P	NSYSM14630	-	NSYSMVR14	NSYSMHR6	NSYMP146	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
NSYSM14640P	NSYSM14640	-	NSYSMVR14	NSYSMHR6	NSYMP146	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
NSYSM14830P	NSYSM14830	-	NSYSMVR14	NSYSMHR8	NSYMP148	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSMVR14	NSYSMHR8	NSYMP148	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
NSYSM1410402DP	NSYSM1410402D	-	NSYSMVR14	NSYSMHR10	NSYMP1410	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
NSYSM1412402DP	NSYSM1412402D	-	NSYSMVR14	NSYSMHR12	NSYMP1412	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
NSYSM16630P	NSYSM16630	-	NSYSMVR16	NSYSMHR6	NSYMP166	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSMVR16	NSYSMHR6	NSYMP166	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
-	-	-	-	-	NSYMP166	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
-	-	-	-	-	NSYMP166	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200
NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSMVR16	NSYSMHR8	NSYMP168	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSMVR16	NSYSMHR8	NSYMP168	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
-	-	-	-	-	NSYMP168	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
-	-	-	-	-	NSYMP168	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200
NSYSM1610302DP	NSYSM1610302D	-	NSYSMVR16	NSYSMHR10	NSYMP1610	NSYSPF10100	NSYSPS3100	-	-
NSYSM1610402DP	NSYSM1610402D	-	NSYSMVR16	NSYSMHR10	NSYMP1610	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
NSYSM1612302DP	NSYSM1612302D	-	NSYSMVR16	NSYSMHR12	NSYMP1612	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200
NSYSM1612402DP	NSYSM1612402D	-	NSYSMVR16	NSYSMHR12	NSYMP1612	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
-	-	-	-	-	-	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200
-	-	-	-	-	-	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200
-	-	-	-	-	-	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200
NSYSM18630P	NSYSM18630	-	NSYSMVR18	NSYSMHR6	NSYMP186	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSMVR18	NSYSMHR6	NSYMP186	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
NSYSM18650P	NSYSM18650	-	NSYSMVR18	NSYSMHR6	NSYMP186	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
-	-	-	-	-	NSYMP186	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
-	-	-	-	-	NSYMP186	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200
NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSMVR18	NSYSMHR8	NSYMP188	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSMVR18	NSYSMHR8	NSYMP188	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS6200
NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSMVR18	NSYSMHR8	NSYMP188	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
NSYSM18860P	NSYSM18860	-	NSYSMVR18	NSYSMHR8	NSYMP188	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
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NSYSM181040P	NSYSM181040	-	NSYSMVR18	NSYSMHR10	NSYMP1810	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
NSYSM1810402DP	NSYSM1810402D	-	NSYSMVR18	NSYSMHR10	NSYMP1810	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
-	-	-	-	-	NSYMP1810	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
NSYSM1810502DP	NSYSM1810502D	-	NSYSMVR18	NSYSMHR10	NSYMP1810	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
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-	-	-	-	-	-	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200
-	-	-	-	-	-	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200
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NSYSM20630P	NSYSM20630	-	NSYSMVR20	NSYSMHR6	NSYMP206	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSMVR20	NSYSMHR6	NSYMP206	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
NSYSM20650P	NSYSM20650	-	NSYSMVR20	NSYSMHR6	NSYMP206	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
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NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSMVR20	NSYSMHR8	NSYMP208	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSMVR20	NSYSMHR8	NSYMP208	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSMVR20	NSYSMHR8	NSYMP208	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
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NSYSM2010402DP	NSYSM2010402D	-	NSYSMVR20	NSYSMHR10	NSYMP2010	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
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-	-	-	-	-	NSYMP2010	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200
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NSYSM2012602DP	NSYSM2012602D	-	NSYSMVR20	NSYSMHR12	NSYMP2012	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
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NSYSM2016602DP	NSYSM2016602D	-	NSYSMVR20	NSYSMHR16	NSYMP2016	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200
-	-	-	-	-	-	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200
-	-	-	-	-	NSYMP226	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
-	-	-	-	-	NSYMP226	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200
-	-	-	-	-	NSYMP228	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
-	-	-	-	-	NSYMP228	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200
-	-	-	-	-	NSYMP2210	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200
-	-	-	-	-	NSYMP2212	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
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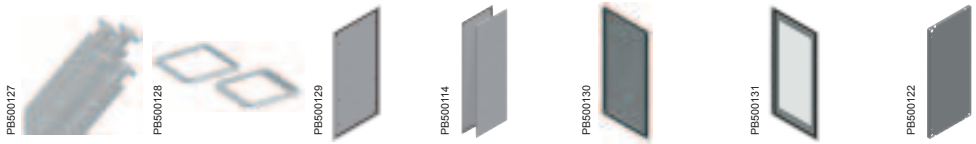
Steel floor-standing enclosures
Selection guide



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)		Painted with epoxy-polyester resin, textured RAL-7035						
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	-
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	-
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	-
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	-
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

More than 600 possible configurations with Spacial SF kit!

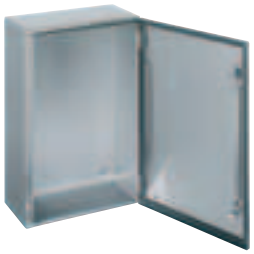
Steel floor-standing enclosures

Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)		Painted with epoxy-polyester resin, textured RAL-7035						
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	-
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	-
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	-
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	-
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYMP208
2000	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYMP208
2000	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYMP2010
2000	1000	500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYMP2010
2000	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYMP2010
2000	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYMP2016
2000	1600	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYMP2016
2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	-
2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	-
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	-
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	-
2200	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Do it yourself, by using the kit version!

Stainless-steel wall-mounting enclosures
Selection guide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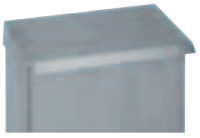
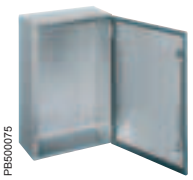

PB500135

PB500072

External dimensions (mm)			No. of locks	No. of doors	304L stainless steel		316L stainless steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
300	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
300	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
400	300	200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
400	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
400	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020	NSYMM64
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020	NSYMM54
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020	NSYMM64
600	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
800	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
1000	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
1200	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

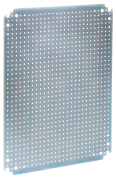
*Three-point closure system.
**The glazed door has no reinforcement.
***See other mounting plates in common accessoires.

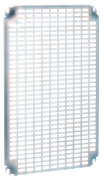
Selection guide for wall-mounting enclosures and main accessories


PB500075

PB500072

PB500100


PB500101


PB500102

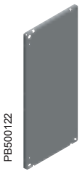
PB500104

PB500136

External dimensions (mm)			Enclosure reference	Mounting plate reference				DIN rail chassis	Step slides
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYS3XEX3215	NSYMM32	-	NSYMF32	NSYMR32	-	-
400	300	200	NSYS3XEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
500	400	200	NSYS3XEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
600	400	200	NSYS3XEX6420	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
700	500	250	NSYS3XEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
800	600	250	NSYS3XEX8625	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
1000	800	300	NSYS3XEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300

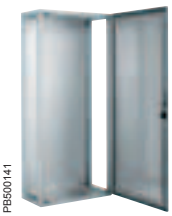
Stainless-steel floor-standing enclosures
Selection guide

Stainless-steel floor-standing monobloc

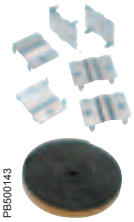


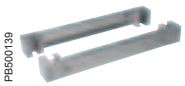
External dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 316L stainless-steel plinth height 100 mm **		Brushed 316L stainless-steel plinth height 200 mm **		Plain mounting plate***
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1400	1000	300	2	NSYSMX141030	NSYSPXF10100H	NSYSPXS3100H	NSYSPXF10200H	2 x NSYSPXS3100H	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP168
1800	600	400	1	NSYSMX18640	NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H	NSYMP186
1800	800	400	1	NSYSMX18840*	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP188
1800	1200	400	2	NSYSMX181240*	NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H	NSYMP1812
1800	1600	400	2	NSYSMX181640*	NSYSPXF16100H	NSYSPXS4100H	NSYSPXF16200H	2 x NSYSPXS4100H	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H	NSYMP208
2000	1000	400	2	NSYSMX201040*	NSYSPXF10100H	NSYSPXS4100H	NSYSPXF10200H	2 x NSYSPXS4100H	NSYMP2010
2000	1200	500	2	NSYSMX201250*	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H	NSYMP2012
2000	1600	600	2	NSYSMX201660*	NSYSPXF16100H	NSYSPXS6100H	NSYSPXF16200H	2 x NSYSPXS6100H	NSYMP2016

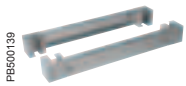
*For version in AISI 316L stainless steel, add the lettre H to the end of the reference. Example NSYSMX18840H
**See section on stainless-steel composition accessories.
***See other mounting plates in common accessoires.

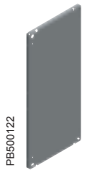


Stainless-steel floor-standing suitable



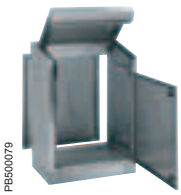




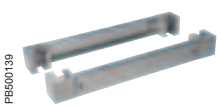


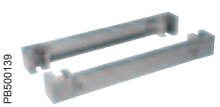
External dimensions (mm)			Number of front doors	References in 304L stainless steel (1)			Brushed 316L stainless-steel plinth height 100 mm (2)		Brushed 316L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
Height (A)	Width (B)	Depth (C)		Suitable enclosure	Set of 2 side panels	Coupling kit	Front + corner	Side	Front + corner	Side	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19	NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H	NSYMP186
1800	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP188
1800	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19	NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H	NSYMP206
2000	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP208
2000	800	600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19	NSYSPXF8100H	NSYSPXS6100H	NSYSPXF8200H	2 x NSYSPXS6100H	NSYMP208
2000	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19	NSYSPXF10100H	NSYSPXS6100H	NSYSPXF10200H	2 x NSYSPXS6100H	NSYMP2010
2000	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19	NSYSPXF12100H	NSYSPXS6100H	NSYSPXF12200H	2 x NSYSPXS6100H	NSYMP2012

(1) 316L stainless-steel enclosures on request.
(2) See section on stainless-steel composition accessories.
(3) See other mounting plates in common accessoires.



Stainless-steel control desks





Dimensions (mm)			Reference	Number of front doors	316L stainless-steel plinth, height 100 mm (1)		316L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1000	600	500	NSYSDX6	1	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H	NSYPMP8560
1000	800	500	NSYSDX8	1	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H	NSYPMP8580
1000	1000	500	NSYSDX10	2	NSYSPXF10100H	NSYSPXS5100H	NSYSPXF10200H	2 x NSYSPXS5100H	NSYPMP85100
1000	1200	500	NSYSDX12	2	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H	NSYPMP85120

(1) See section on stainless-steel composition accessories.
(2) See other mounting plates in common accessoires.

Polyester wall-mounting enclosures
Selection guide

Polyester wall-mounting enclosures IP 66

PB500144

PB500146

PB500147

PB501264

PB501265

External dimensions (mm)			ABS/PC wall-mounting enclosures IP 66		Polyester wall-mounting enclosures IP 66			
H	W	D	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
			Page 258		Page 259 and 260		Page 260	
310	215	160	NSYPLM32	NSYPLM32T	-	-	-	-
308	255	160	-	-	NSYPLM3025	NSYPLM3025T	-	-
430	330	200	-	-	NSYPLM43	NSYPLM43T	NSYPLM43V	NSYPLM43TV
530	430	200	-	-	NSYPLM54	NSYPLM54T	NSYPLM54V	NSYPLM54TV
647	436	250	-	-	NSYPLM64	NSYPLM64T	NSYPLM64V	NSYPLM64TV
747	536	300	-	-	NSYPLM75	NSYPLM75T	NSYPLM75V	NSYPLM75TV
847	636	300	-	-	NSYPLM86	NSYPLM86T	NSYPLM86V	NSYPLM86TV
1056	852	350	-	-	NSYPLM108	NSYPLM108T	-	-

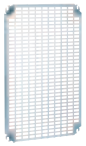
Polyester wall-mounting PLMEX and accessories

PB500148

PB500072

PB500100

PB500101


PB500102

PB500149

PB500150

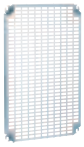
External dimensions (mm)			References	Metallic mounting plate references				References	
Height	Width	Depth	ATEX solution	Plain	Silkscreened	Microperforated	Telequick	Step slides	Padlocking
308	255	160	NSYPLMEX3025	NSYMM3025	-	-	NSYMR3025	-	-
430	330	200	NSYPLMEX43	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDPLM200	NSYKPLM
530	430	200	NSYPLMEX54	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDPLM200	NSYKPLM
647	436	250	NSYPLMEX64	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDPLM250	NSYKPLM
747	536	300	NSYPLMEX75	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDPLM300	NSYKPLM
847	636	300	NSYPLMEX86	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDPLM300	NSYKPLM
1056	852	350	NSYPLMEX108	NSYMM108	-	NSYMF108	NSYMR108	NSYDPLM350	NSYBCPL

Polyester wall-mounting enclosures
Selection guide

Mounting accessories

PB500072

PB500100

PB500101

PB500102

PB500103

PB500151

PB500152

PB500153

PB500154

External dimensions of the enclosures (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
H	W	D	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 324		Page 325	Page 326	Page 328		Page 273	Page 271	Page 271
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48P	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66 and NSYDLA88	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84 and NSYDLA112	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234	NSYDPLM350	NSYCS800PLM

Main accessories

PB500155

PB500156

PB500157

PB500158

PB500159

PB500160

PB500161

PB501746

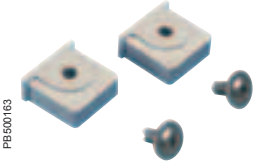
External dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
H	W	D								
			Page 267	Page 267	Page 266	Page 266	Page 266	Page 268	Page 267	Page 265
310	215	160	NSYPFPLM32	-	-	-	-	-	NSYCEPLMA	-
308	255	160	NSYPFPLM	-	-	-	-	NSYPA3025PLM	-	-
430	330	200	NSYPFPLM	NSYSFP300	-	-	-	NSYPAP43	NSYCEPLMB	-
530	430	200	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP54	NSYCEPLMB	-
647	436	250	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP64	NSYCEPLMC	-
747	536	300	NSYPFPLM	NSYSFP500	-	NSYBUPLM	NSYTLA4420	NSYPAP75	NSYCEPLMC	NSYZM253
847	636	300	NSYPFPLM	NSYSFP600	-	NSYBUPLM	NSYTLA4420	NSYPAP86	NSYCEPLMC	NSYZM263
1056	852	350	NSYPFPLM	-	-	NSYBU108PLM	NSYTLA6420	NSYPAP108	-	NSYZM283

Water drain plug

PB500162

Page 272

Rail-fixing nuts


PB500163

Page 271

Ventilation louvre

PB500164

Page 272

Polyester floor-standing enclosures IP 65 or IP 54
Selection guide

External dimensions (mm)				Completely sealed enclosures, IP 65			Enclosures with plinth-type open bottom part, IP 54	
				References of enclosures with door				
Height	Width	Depth	N° of doors	Plain	Glazed	Anti-posting	Plain	Anti-posting
500	500	320	1	NSYPLA553	NSYPLA553T	NSYPLA553R	NSYPLAZ553	NSYPLAZ553R
500	500	420	1	NSYPLA554	NSYPLA554T	NSYPLA554R	NSYPLAZ554	NSYPLAZ554R
500	750	320	1	NSYPLA573	NSYPLA573T	NSYPLA573R	NSYPLAZ573	NSYPLAZ573R
500	750	420	1	NSYPLA574	NSYPLA574T	NSYPLA574R	NSYPLAZ574	NSYPLAZ574R
500	1000	320	2	NSYPLA5103	NSYPLA5103T	NSYPLA5103R	NSYPLAZ5103	NSYPLAZ5103R
500	1000	420	2	NSYPLA5104	NSYPLA5104T	NSYPLA5104R	NSYPLAZ5104	NSYPLAZ5104R
500	1250	320	2	NSYPLA5123	NSYPLA5123T	NSYPLA5123R	NSYPLAZ5123	NSYPLAZ5123R
500	1250	420	2	NSYPLA5124	NSYPLA5124T	NSYPLA5124R	NSYPLAZ5124	NSYPLAZ5124R
750	500	320	1	NSYPLA753	NSYPLA753T	NSYPLA753R	NSYPLAZ753	NSYPLAZ753R
750	500	420	1	NSYPLA754	NSYPLA754T	NSYPLA754R	NSYPLAZ754	NSYPLAZ754R
750	750	320	1	NSYPLA773	NSYPLA773T	NSYPLA773R	NSYPLAZ773	NSYPLAZ773R
750	750	420	1	NSYPLA774	NSYPLA774T	NSYPLA774R	NSYPLAZ774	NSYPLAZ774R
750	1000	320	2	NSYPLA7103	NSYPLA7103T	NSYPLA7103R	NSYPLAZ7103	NSYPLAZ7103R
750	1000	420	2	NSYPLA7104	NSYPLA7104T	NSYPLA7104R	NSYPLAZ7104	NSYPLAZ7104R
750	1250	320	2	NSYPLA7123	NSYPLA7123T	NSYPLA7123R	NSYPLAZ7123	NSYPLAZ7123R
750	1250	420	2	NSYPLA7124	NSYPLA7124T	NSYPLA7124R	NSYPLAZ7124	NSYPLAZ7124R
1000	500	320	1	NSYPLA1053	NSYPLA1053T	NSYPLA1053R	NSYPLAZ1053	NSYPLAZ1053R
1000	500	420	1	NSYPLA1054	NSYPLA1054T	NSYPLA1054R	NSYPLAZ1054	NSYPLAZ1054R
1000	750	320	1	NSYPLA1073	NSYPLA1073T	NSYPLA1073R	NSYPLAZ1073	NSYPLAZ1073R
1000	750	420	1	NSYPLA1074	NSYPLA1074T	NSYPLA1074R	NSYPLAZ1074	NSYPLAZ1074R
1000	1000	320	2	NSYPLA10103	NSYPLA10103T	NSYPLA10103R	NSYPLAZ10103	NSYPLAZ10103R
1000	1000	420	2	NSYPLA10104	NSYPLA10104T	NSYPLA10104R	NSYPLAZ10104	NSYPLAZ10104R
1000	1250	320	2	NSYPLA10123	NSYPLA10123T	NSYPLA10123R	NSYPLAZ10123	NSYPLAZ10123R
1000	1250	420	2	NSYPLA10124	NSYPLA10124T	NSYPLA10124R	NSYPLAZ10124	NSYPLAZ10124R
1250	500	320	1	NSYPLA1253	NSYPLA1253T	NSYPLA1253R	NSYPLAZ1253	NSYPLAZ1253R
1250	500	420	1	NSYPLA1254	NSYPLA1254T	NSYPLA1254R	NSYPLAZ1254	NSYPLAZ1254R
1250	750	320	1	NSYPLA1273	NSYPLA1273T	NSYPLA1273R	NSYPLAZ1273	NSYPLAZ1273R
1250	750	420	1	NSYPLA1274	NSYPLA1274T	NSYPLA1274R	NSYPLAZ1274	NSYPLAZ1274R
1250	1000	320	2	NSYPLA12103	NSYPLA12103T	NSYPLA12103R	NSYPLAZ12103	NSYPLAZ12103R
1250	1000	420	2	NSYPLA12104	NSYPLA12104T	NSYPLA12104R	NSYPLAZ12104	NSYPLAZ12104R
1250	1250	320	2	NSYPLA12123	NSYPLA12123T	NSYPLA12123R	NSYPLAZ12123	NSYPLAZ12123R
1250	1250	420	2	NSYPLA12124	NSYPLA12124T	NSYPLA12124R	NSYPLAZ12124	NSYPLAZ12124R
1500	500	320	1	NSYPLA1553	NSYPLA1553T	NSYPLA1553R	NSYPLAZ1553	NSYPLAZ1553R
1500	500	420	1	NSYPLA1554	NSYPLA1554T	NSYPLA1554R	NSYPLAZ1554	NSYPLAZ1554R
1500	750	320	1	NSYPLA1573	NSYPLA1573T	NSYPLA1573R	NSYPLAZ1573	NSYPLAZ1573R
1500	750	420	1	NSYPLA1574	NSYPLA1574T	NSYPLA1574R	NSYPLAZ1574	NSYPLAZ1574R
1500	1000	320	2	NSYPLA15103	NSYPLA15103T	NSYPLA15103R	NSYPLAZ15103	NSYPLAZ15103R
1500	1000	420	2	NSYPLA15104	NSYPLA15104T	NSYPLA15104R	NSYPLAZ15104	NSYPLAZ15104R
1500	1250	320	2	NSYPLA15123	NSYPLA15123T	NSYPLA15123R	NSYPLAZ15123	NSYPLAZ15123R
1500	1250	420	2	NSYPLA15124	NSYPLA15124T	NSYPLA15124R	NSYPLAZ15124	NSYPLAZ15124R

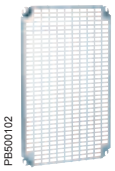
Polyester floor-standing enclosures IP 44
Selection guide

External dimensions (mm)				Enclosures with ventilated canopy IP 44		Enclosures with plinth-type open bottom part and ventilated canopy, IP 44	
				References of enclosures with door			
Height	Width	Depth	N° of doors	Plain	Anti-posting	Plain	Anti-posting
500	500	320	1	NSYPLAT553	NSYPLAT553R	NSYPLAZT553	NSYPLAZT553R
500	500	420	1	NSYPLAT554	NSYPLAT554R	NSYPLAZT554	NSYPLAZT554R
500	750	320	1	NSYPLAT573	NSYPLAT573R	NSYPLAZT573	NSYPLAZT573R
500	750	420	1	NSYPLAT574	NSYPLAT574R	NSYPLAZT574	NSYPLAZT574R
500	1000	320	2	NSYPLAT5103	NSYPLAT5103R	NSYPLAZT5103	NSYPLAZT5103R
500	1000	420	2	NSYPLAT5104	NSYPLAT5104R	NSYPLAZT5104	NSYPLAZT5104R
500	1250	320	2	NSYPLAT5123	NSYPLAT5123R	NSYPLAZT5123	NSYPLAZT5123R
500	1250	420	2	NSYPLAT5124	NSYPLAT5124R	NSYPLAZT5124	NSYPLAZT5124R
750	500	320	1	NSYPLAT753	NSYPLAT753R	NSYPLAZT753	NSYPLAZT753R
750	500	420	1	NSYPLAT754	NSYPLAT754R	NSYPLAZT754	NSYPLAZT754R
750	750	320	1	NSYPLAT773	NSYPLAT773R	NSYPLAZT773	NSYPLAZT773R
750	750	420	1	NSYPLAT774	NSYPLAT774R	NSYPLAZT774	NSYPLAZT774R
750	1000	320	2	NSYPLAT7103	NSYPLAT7103R	NSYPLAZT7103	NSYPLAZT7103R
750	1000	420	2	NSYPLAT7104	NSYPLAT7104R	NSYPLAZT7104	NSYPLAZT7104R
750	1250	320	2	NSYPLAT7123	NSYPLAT7123R	NSYPLAZT7123	NSYPLAZT7123R
750	1250	420	2	NSYPLAT7124	NSYPLAT7124R	NSYPLAZT7124	NSYPLAZT7124R
1000	500	320	1	NSYPLAT1053	NSYPLAT1053R	NSYPLAZT1053	NSYPLAZT1053R
1000	500	420	1	NSYPLAT1054	NSYPLAT1054R	NSYPLAZT1054	NSYPLAZT1054R
1000	750	320	1	NSYPLAT1073	NSYPLAT1073R	NSYPLAZT1073	NSYPLAZT1073R
1000	750	420	1	NSYPLAT1074	NSYPLAT1074R	NSYPLAZT1074	NSYPLAZT1074R
1000	1000	320	2	NSYPLAT10103	NSYPLAT10103R	NSYPLAZT10103	NSYPLAZT10103R
1000	1000	420	2	NSYPLAT10104	NSYPLAT10104R	NSYPLAZT10104	NSYPLAZT10104R
1000	1250	320	2	NSYPLAT10123	NSYPLAT10123R	NSYPLAZT10123	NSYPLAZT10123R
1000	1250	420	2	NSYPLAT10124	NSYPLAT10124R	NSYPLAZT10124	NSYPLAZT10124R
1250	500	320	1	NSYPLAT1253	NSYPLAT1253R	NSYPLAZT1253	NSYPLAZT1253R
1250	500	420	1	NSYPLAT1254	NSYPLAT1254R	NSYPLAZT1254	NSYPLAZT1254R
1250	750	320	1	NSYPLAT1273	NSYPLAT1273R	NSYPLAZT1273	NSYPLAZT1273R
1250	750	420	1	NSYPLAT1274	NSYPLAT1274R	NSYPLAZT1274	NSYPLAZT1274R
1250	1000	320	2	NSYPLAT12103	NSYPLAT12103R	NSYPLAZT12103	NSYPLAZT12103R
1250	1000	420	2	NSYPLAT12104	NSYPLAT12104R	NSYPLAZT12104	NSYPLAZT12104R
1250	1250	320	2	NSYPLAT12123	NSYPLAT12123R	NSYPLAZT12123	NSYPLAZT12123R
1250	1250	420	2	NSYPLAT12124	NSYPLAT12124R	NSYPLAZT12124	NSYPLAZT12124R
1500	500	320	1	NSYPLAT1553	NSYPLAT1553R	NSYPLAZT1553	NSYPLAZT1553R
1500	500	420	1	NSYPLAT1554	NSYPLAT1554R	NSYPLAZT1554	NSYPLAZT1554R
1500	750	320	1	NSYPLAT1573	NSYPLAT1573R	NSYPLAZT1573	NSYPLAZT1573R
1500	750	420	1	NSYPLAT1574	NSYPLAT1574R	NSYPLAZT1574	NSYPLAZT1574R
1500	1000	320	2	NSYPLAT15103	NSYPLAT15103R	NSYPLAZT15103	NSYPLAZT15103R
1500	1000	420	2	NSYPLAT15104	NSYPLAT15104R	NSYPLAZT15104	NSYPLAZT15104R
1500	1250	320	2	NSYPLAT15123	NSYPLAT15123R	NSYPLAZT15123	NSYPLAZT15123R
1500	1250	420	2	NSYPLAT15124	NSYPLAT15124R	NSYPLAZT15124	NSYPLAZT15124R

Polyester floor-standing enclosures
Accessory selection guide

Mounting accessories

PB500072


PB500102

PB500151

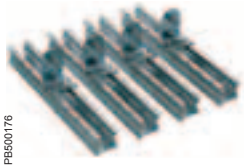
PB500103

PB500174

PB500175

Enclosure dimensions (mm)									
Height	Width	N° of doors	Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
			Plain	Telequick	Polyester	Bakelite			
			Page 301	Page 302	Page 301		Page 308		Page 297
500	500	1	**NSYPMM55**	**NSYPMR55**	**NSYPMA55**	**NSYPMB55**	-	-	**NSYPAPLA55**
500	750	1	**NSYPMM75**	**NSYPMR57**	**NSYPMA75**	**NSYPMB75**	-	-	**NSYPAPLA57**
500	1000	2	**NSYPMM510**	2 x **NSYPMR55**	**NSYPMA510**	**NSYPMB510**	-	-	2 x **NSYPAPLA55**
500	1250	2	**NSYPMM55** + **NSYPMM75**	**NSYPMR55** + **NSYPMR57**	**NSYPMA55** + **NSYPMA75**	**NSYPMB55** + **NSYPMB75**	-	-	**NSYPAPLA55** + **NSYPAPLA57**
750	500	1	**NSYPMM75**	**NSYPMR75**	**NSYPMA75**	**NSYPMB75**	**NSYDLP76**	**NSYDLP57**	**NSYPAPLA75**
750	750	1	**NSYPMM77**	**NSYPMR77**	**NSYPMA77**	**NSYPMB77**	**NSYDLP132**	**NSYDLP99**	**NSYPAPLA77**
750	1000	2	**NSYPMM710**	2 x **NSYPMR75**	**NSYPMA710**	**NSYPMB710**	2 x **NSYDLP76**	2 x **NSYDLP57**	2 x **NSYPAPLA75**
750	1250	2	**NSYPMM712**	**NSYPMR75** + **NSYPMR77**	**NSYPMA712**	**NSYPMB712**	**NSYDLP76** + **NSYDLP132**	**NSYDLP57** + **NSYDLP99**	**NSYPAPLA75** + **NSYPAPLA77**
1000	500	1	**NSYPMM105**	**NSYPMR105**	**NSYPMA105**	**NSYPMB105**	**NSYDLP114**	**NSYDLP95**	**NSYPAPLA105**
1000	750	1	**NSYPMM107**	**NSYPMR107**	**NSYPMA107**	**NSYPMB107**	**NSYDLP198**	**NSYDLP165**	**NSYPAPLA107**
1000	1000	2	**NSYPMM1010**	2 x **NSYPMR105**	**NSYPMA1010**	**NSYPMB1010**	2 x **NSYDLP114**	2 x **NSYDLP95**	2 x **NSYPAPLA105**
1000	1250	2	**NSYPMM1012**	**NSYPMR105** + **NSYPMR107**	**NSYPMA1012**	**NSYPMB1012**	**NSYDLP114** + **NSYDLP198**	**NSYDLP95** + **NSYDLP165**	**NSYPAPLA105** + **NSYPAPLA107**
1250	500	1	**NSYPMM125**	**NSYPMR125**	**NSYPMA125**	**NSYPMB125**	**NSYDLP133**	**NSYDLP114P**	**NSYPAPLA125**
1250	750	1	**NSYPMM127**	**NSYPMR127**	**NSYPMA127**	**NSYPMB127**	**NSYDLP231**	**NSYDLP198P**	**NSYPAPLA127**
1250	1000	2	**NSYPMM1210**	2 x **NSYPMR125**	**NSYPMA1210**	**NSYPMB1210**	2 x **NSYDLP133**	2 x **NSYPLD114P**	2 x **NSYPAPLA125**
1250	1250	2	**NSYPMM1212**	**NSYPMR125** + **NSYPMR127**	**NSYPMA1212**	**NSYPMB1212**	**NSYDLP133** + **NSYDLP231**	**NSYDLP114P** + **NSYDLP198P**	**NSYPAPLA125** + **NSYPAPLA127**
1500	500	1	**NSYPMM155**	**NSYPMR155**	-	**NSYPMB155**	**NSYDLP171**	**NSYDLP152**	**NSYPAPLA155**
1500	750	1	**NSYPMM157**	**NSYPMR157**	-	**NSYPMB157**	**NSYDLP297**	**NSYDLP264**	**NSYPAPLA157**
1500	1000	2	**NSYPMM1510**	2 x **NSYPMR155**	-	**NSYPMB1510**	2 x **NSYDLP171**	2 x **NSYDLP152**	2 x **NSYPAPLA155**
1500	1250	2	**NSYPMM1512**	**NSYPMR155** + **NSYPMR157**	-	**NSYPMB1512**	**NSYDLP171** + **NSYDLP297**	**NSYDLP152** + **NSYDLP264**	**NSYPAPLA155** + **NSYPAPLA157**

Step slides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Uprights and mounting rails

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Door retainer

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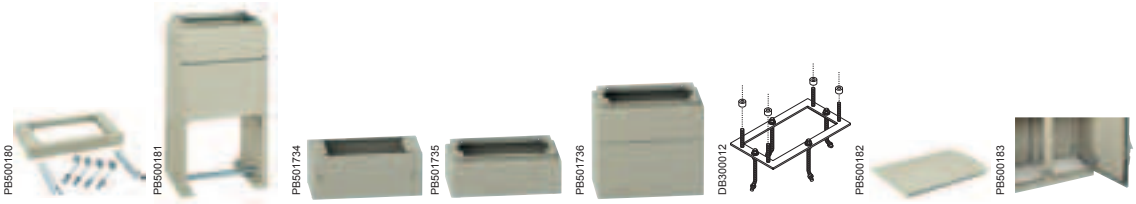
Polyester floor-standing enclosures
Accessory selection guide

Composition accessories



Enclosure dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
		Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
Width	Depth	Page 291		Page 293	Page 294		Page 292	Page 295	Page 296
500	320	NSYZNPLA53	NSYZHPLA53	NSYZA253	NSYZZ253	NSYZZ553	NSYMFPLAZ53	NSYTJPLA53	NSYECPLAZ53
500	420	NSYZNPLA54	NSYZHPLA54	NSYZA273	NSYZZ273	NSYZZ573	NSYMFPLAZ54	NSYTJPLA54	NSYECPLAZ54
750	320	NSYZNPLA73	NSYZHPLA73	NSYZA2103	NSYZZ2103	NSYZZ5103	NSYMFPLAZ73	NSYTJPLA73	NSYECPLAZ73
750	420	NSYZNPLA74	NSYZHPLA74	NSYZA2123	NSYZZ2123	NSYZZ5123	NSYMFPLAZ74	NSYTJPLA74	NSYECPLAZ74
1000	320	NSYZNPLA103	NSYZHPLA103	NSYZA254	NSYZZ254	NSYZZ554	NSYMFPLAZ103	NSYTJPLA103	NSYECPLAZ103
1000	420	NSYZNPLA104	NSYZHPLA104	NSYZA274	NSYZZ274	NSYZZ574	NSYMFPLAZ104	NSYTJPLA104	NSYECPLAZ104
1250	320	NSYZNPLA123	NSYZHPLA123	NSYZA2104	NSYZZ2104	NSYZZ5104	NSYMFPLAZ123	NSYTJPLA123	NSYECPLAZ123
1250	420	NSYZNPLA124	NSYZHPLA124	NSYZA2124	NSYZZ2124	NSYZZ5124	NSYMFPLAZ124	NSYTJPLA124	NSYECPLAZ124

VDI accessories

Enclosure dimensions (mm)		19" fixed chassis	Number of U	19" swing chassis	Number of U
Height	Width	Page 311		Page 311	
500	750	NSYBRF8PLA	8	NSYBRP7PLA	7
750	750	NSYBRF12PLA + NSYSPLA75	12	NSYBRP11PLA + NSYSPLA75	11
1000	750	NSYBRF17PLA + NSYSPLA100	17	NSYBRP16PLA + NSYSPLA100	16
1250	750	NSYBRF21PLA + NSYSPLA125	21	NSYBRP20PLA + NSYSPLA125	20
1500	750	NSYBRF26PLA + NSYSPLA150	26	NSYBRP25PLA + NSYSPLA150	25

Door switch

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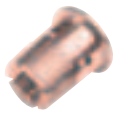
Insert



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Document pocket

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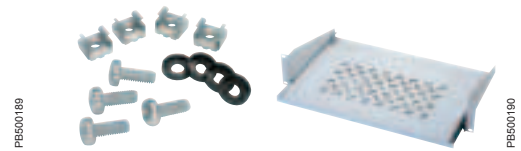
VDI accessories and fixings



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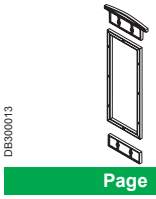
Coupling Kit



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Anti-graffiti paint

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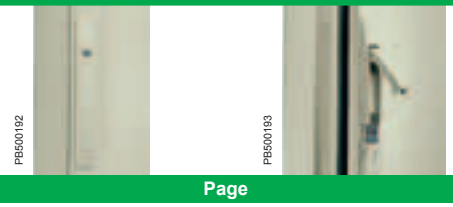
Handles and inserts



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Wall-fixing lug

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Steel
industrial boxes

Steel industrial boxes
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Spacial S44 - S57 - S24 - SDB Steel industrial boxes **40**

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Spacial SDB: Steel derivation boxes IP 55 42

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Spacial S24: Steel safety boxes IP 55 48

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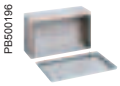
Spacial S44: Steel industrial boxes IP 66 51


PB500196

Spacial S57: Steel screw fixed cover boxes IP 66 53

Steel industrial boxes
Selection guide

SDB: boxes

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SDB: small enclosures

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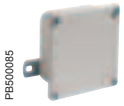

S44

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S57

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Criteria		Metallic junction boxes / Industrial boxes		Enclosure for security applications	Metallic junction boxes / Industrial boxes	
Outdoor use				●	●	●
Degree of protection		IP 55 IK 07	IP 55 IK 07	IP 55 IK 07	IP 66 IK 08	IP 66 IK 10
Dimensions (mm)	Height	85 to 357	206 to 357	180 to 230	80 to 400	200 or 300
- external for SDB	Width	85 to 307	156 to 307	130 to 210	80 to 400	300 to 500
- internal the other ones	Depth	49 to 140	83 to 210	96 to 126	45 to 110	200 or 300
Universal application		●	●	●	●	●
High cover		●	Door			
Low cover		●	Door	Door	●	●
With knock-out		●				

Stainlees-steel industrial boxes: contact us.

Specific

- Steel boxes and enclosures cannot be installed outdoors without a special finish.
- Please consult us for stainless-steel boxes: 304L, 316L, brushed, micro-beaded finishes.
- Please consult us for cut-outs / paint / machining / accessory installation / integration.

Steel industrial boxes
Selection guide

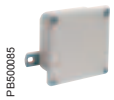
Metallic junction boxes SDB IP 55 (IEC 60529)

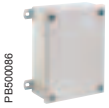
	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 2	124	74	56	**NSYPMD1510**	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520**	**NSYDB2520M**	3 n° 4	2 n° 4	220	170	88	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025**	**NSYDB3025M**	2 n° 3, 2 n° 4	3 n° 4	268	218	110	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530**	**NSYDB3530M**	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	**NSYPMD3530**	4.8
High cover models	155	105	88	**NSYDAN1510**	**NSYDA1510M**	3 n° 2	1 n° 2	124	74	83	**NSYPMD1510**	0.45
	206	156	122	**NSYDAN2015**	**NSYDA2015M**	3 n° 3	2 n° 3	172	122	121	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520**	**NSYDA2520M**	3 n° 4	2 n° 4	220	170	131	**NSYPMD2520**	1.9

Small metallic enclosures SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	**NSYDBN2015D**	172	122	78	55	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520D**	220	170	88	55	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025D**	268	218	110	55	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530D**	318	268	130	55	**NSYPMD3530**	4.8
High cover models	206	156	122	**NSYDAN2015D**	172	122	121	45	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520D**	220	170	131	45	**NSYPMD2520**	1.9
	307	257	174	**NSYDAN3025D**	268	218	168	45	**NSYPMD3025**	4
	357	307	210	**NSYDAN3530D**	318	268	204	45	**NSYPMD3530**	5.8

PB500089


PB500085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External dimensions (mm)			S24 range Opaque door + screws	Steel industrial box references S44			S57 range IK 10
				IK 08			
Height	Width	Depth		Empty	Plate	Uprights (1)	
80	80	45	-	**NSYSBS884**	-	-	-
100	100	55	-	**NSYSBS10105**	-	-	-
130	130	60	-	**NSYSBS13136**	-	-	-
160	160	65	-	**NSYSBS16166**	-	-	-
165	120	65	-	**NSYSBS16126**	**NSYSBS16126S**	-	-
180	130	96	**NSYSBS18139F**		-	-	-
180	165	96	**NSYSBS18169F**		-	-	-
200	200	90	-	**NSYSBS20209**	**NSYSBS20209S**	-	-
230	210	126	**NSYSBS232112F**		-	-	-
250	250	100	-	**NSYSBS252510**	**NSYSBS252510S**	-	-
300	200	110	-		-	**NSYSBS302011R**	-
300	200	150	-		-	-	**NSYSBS302015**
300	300	100	-	**NSYSBS303010**	**NSYSBS303010S**	-	-
300	300	150	-		-	-	**NSYSBS303015**
400	200	110	-		-	**NSYSBS402011R**	-
400	300	150	-		-	-	**NSYSBS403015**
400	400	110	-	**NSYSBS404011**	**NSYSBS404011S**	-	-
500	200	110	-		-	**NSYSBS502011R**	-
500	300	110	-		-	**NSYSBS503011R**	-
500	300	200	-		-	-	**NSYSBS503020**
600	200	110	-		-	**NSYSBS602011R**	-
600	300	110	-		-	**NSYSBS603011R**	-

(1) Uprights along small sides (Width)

Steel derivation boxes IP 55
Overview

Boxes and small enclosures made of sheet-steel protected inside and outside with epoxy-polyester paint in RAL 7035 grey.

PB500235

With or without metric knock-outs for tube entry.

PB500235

2 versions available: with high or low cover.

PB500235

Backs equipped with threaded drill holes for fixing equipment. From model 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. Direct wall-fixing.

PB500235

PVC or rubber sealing gasket depending on the model.

PB500235

Double-bar lock with inserted key can be used as a handle lock. Other lock inserts are available.

PB500236

Metallic junction boxes
IP 55 (IEC 60529)

PB500198

NSYDA2520M

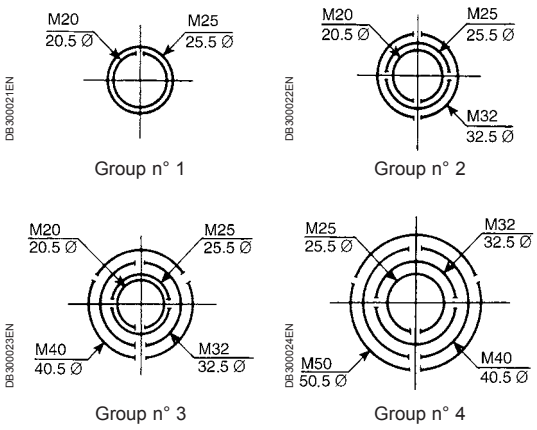
PB500237

NSYDBN1510

Metallic boxes made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

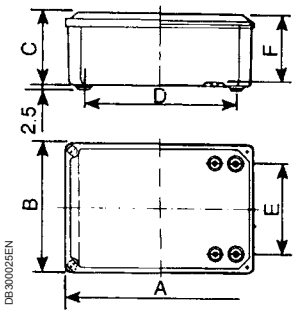
The SDB series consists of 4 basic models:
- Without knock-outs: **NSYDBN** with low cover and **NSYDAN** with high cover.
- With knock-outs: **NSYDB●●●M** with low cover and **NSYDA●●●M** with high cover.
- PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20.
- Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.
- Direct wall-fixing by means of drill holes fitted with plastic plugs to ensure sealing.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Metallic junction boxes
IP 55 (IEC 60529)

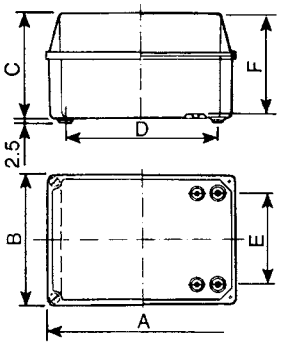


Dimensions (mm)

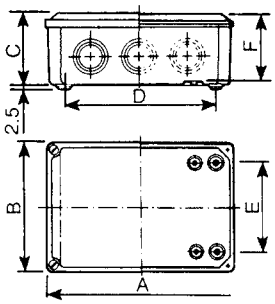
NSYDBN



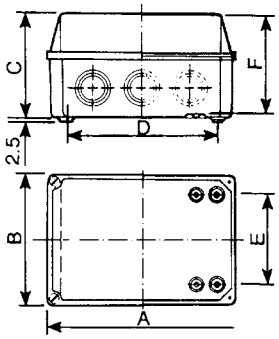
NSYDAN



NSYDB●●●M



NSYDA●●●M



Models, dimensions and references

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 2	124	74	56	**NSYPMD1510**	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520**	**NSYDB2520M**	3 n° 4	2 n° 4	220	170	88	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025**	**NSYDB3025M**	2 n° 3, 2 n° 4	3 n° 4	268	218	110	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530**	**NSYDB3530M**	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	**NSYPMD3530**	4.8
High cover models	155	105	88	**NSYDAN1510**	**NSYDA1510M**	3 n° 2	1 n° 2	124	74	83	**NSYPMD1510**	0.45
	206	156	122	**NSYDAN2015**	**NSYDA2015M**	3 n° 3	2 n° 3	172	122	121	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520**	**NSYDA2520M**	3 n° 4	2 n° 4	220	170	131	**NSYPMD2520**	1.9

Small metallic enclosures
IP 55 (IEC 60529)

PB500236

NSYDBN3025D

PB500238

NSYDAN3025D

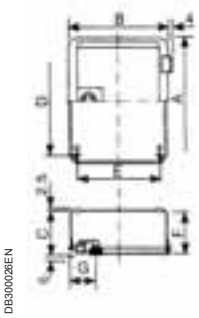
Metallic enclosures made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

- The Spacial SDB series with hinges consists of 2 models **NSYSDBN●●●D** low cover and **NSYDAN●●●D** high cover.
- Enclosures fitted with sealing gasket and M4 threaded holes fitted with removable plugs for fixing the mounting plate and/or equipment in general.
- Lock with double-bar insert operated with key (standard supply).
  Fixing this key to the insert will convert it into a handle lock.
  See other lock possibilities in the insert table.

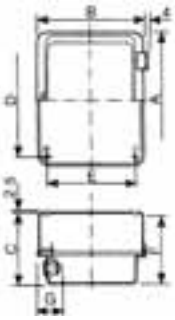
Small metallic enclosures
IP 55 (IEC 60529)

Dimensions

NSYDBN...D



NSYDAN...D



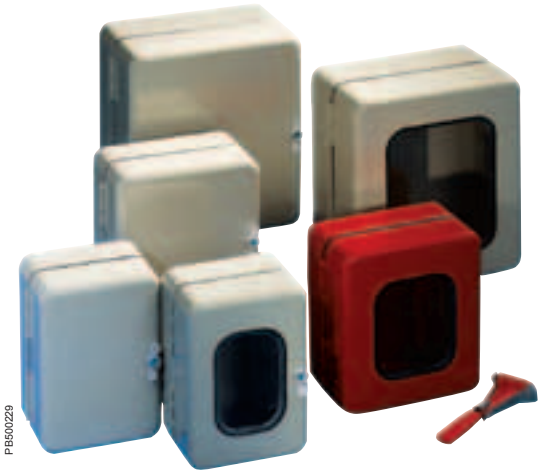
Models. Dimensions and references

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	**NSYDBN2015D**	172	122	78	55	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520D**	220	170	88	55	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025D**	268	218	110	55	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530D**	318	268	130	55	**NSYPMD3530**	4.8
High cover models	206	156	122	**NSYDAN2015D**	172	122	121	45	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520D**	220	170	131	45	**NSYPMD2520**	1.9
	307	257	174	**NSYDAN3025D**	268	218	168	45	**NSYPMD3025**	4
	357	307	210	**NSYDAN3530D**	318	268	204	45	**NSYPMD3530**	5.8

Conversions of standard lock into normalised solutions

Type and size		Operated with a key		Reference
Square insert	□ 6 mm	LC-7	DB300027	**NSYTC6CRN**
	□ 7 mm	LC-7		**NSYTC7CRN**
	□ 8 mm	LC-8		**NSYTC8CRN**
Triangular insert	▲ 6 mm	LT-8	DB300028	**NSYTT6CRN**
	▲ 7 mm	LT-8		**NSYTT7CRN**
	▲ 8 mm	LT-8		**NSYTT8CRN**
405 key-type lock			DB300029	**NSYCL405CRN**

Steel safety boxes IP 55


PB500229

Technical characteristics

- Degree of protection IP 55 according to IEC 60529.
- Resistance to external mechanical impacts: IK 07.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey or RAL 3000 red for security applications.
- Locking by screws or by side lock with 3-mm double-bar insert. Option of installing a handle, ref. **NSYTHL1242EPLM** or **NSYTHPLM** with insert ref. **NSYTT8CRN** (to be ordered).
- Plumbable with a cap installed at the plant.
- The enclosures are equipped with 4 nuts welded to the rear. They allow the fixing of a mounting plate (as an accessory) or a personalised mounting plate.
- Polyurethane sealing gasket.
- M6 x 8 earthing screws on the body and cover for earth continuity.

Applications

- Security and alarm systems (such as a fire alarm) that can accommodate modular plates and equipment.

PB500089

PB500230

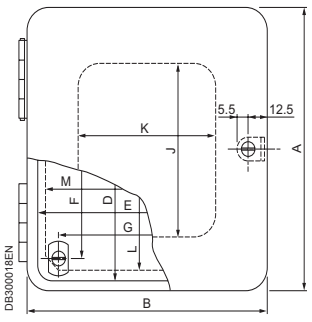
PB500231

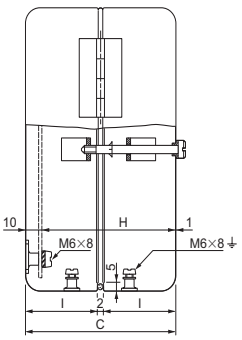
PB500232

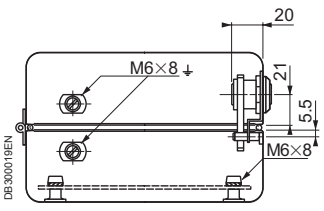
PB500197

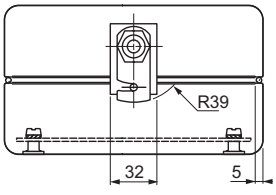
Internal dimensions (mm)			Enclosure reference locking by screws		Reference of enclosures with side 3-mm double-bar lock		
Height	Width	Depth	Plain door	Door with window	Plain door	Door with window	Door with glass window thickness 3 mm
180	130	96	**NSYSBS18139F**	**NSYSBS18139FT**	**NSYSBS18139K**	**NSYSBS18139KT**	**NSYSBS18139KTH**
180	165	96	**NSYSBS18169F**	**NSYSBS18169FT**	**NSYSBS18169K**	**NSYSBS18169KT**	**NSYSBS18169KTH**
230	210	126	**NSYSBS232112F**	**NSYSBS232112FT**	**NSYSBS232112K**	**NSYSBS232112KT**	**NSYSBS232112KTH**

Ref. enclosures	Dimensions (mm)													Weight (kg)	Ref. plates
	A	B	C	D	E	F	G	H	I	J	K	L	M		
NSYSBS18139F	182	132	107	168	118	140	90	95	52	107	77	160	110	1	**NSYAMPM1612SB**
NSYSBS18169F	182	167	107	168	153	140	125	95	52	108	97	160	145	1.2	**NSYAMPM1816SB**
NSYSBS232112F	232	212	137	218	198	190	170	125	67	157	137	210	190	2	**NSYAMPM2321SB**





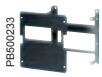




Accessories

Mounting accessories

- Treated-steel mounting plates, delivered with fixings.
- Kit for modular equipment, delivered with fixings.



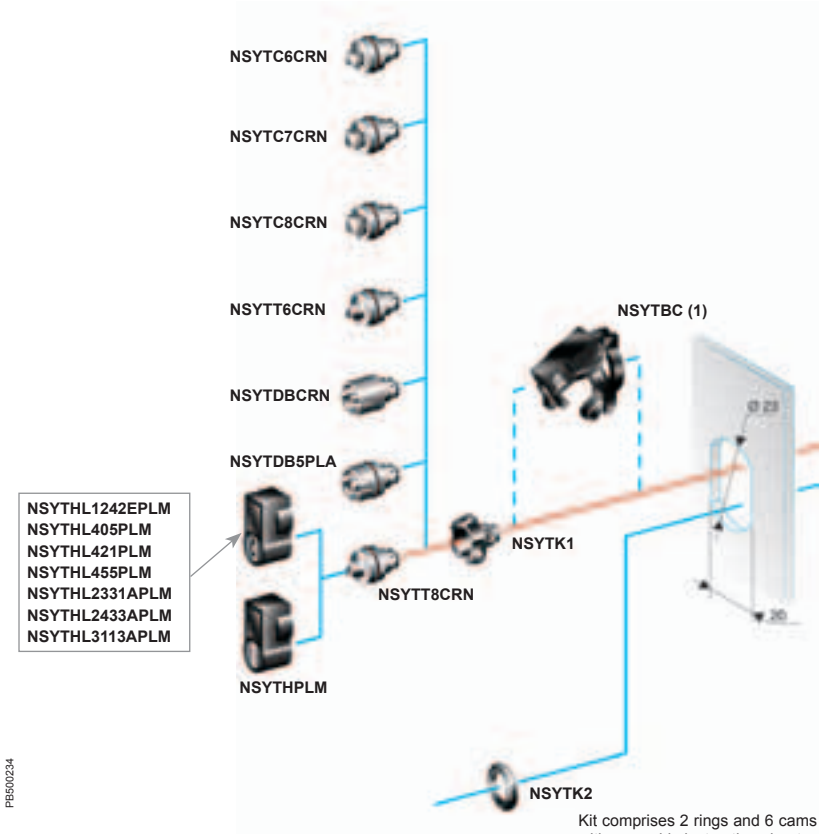
Internal dimensions (mm)			Number of modules	Modular mounting plates	Kits for equipment
Height	Width	Depth			
180	130	96	4	**NSYAMPM1612SB**	**NSYAPMC1813SB**
180	165	96	-	**NSYAMPM1816SB**	**-**
230	210	126	8	**NSYAMPM2321SB**	**NSYAPMC2321SB**

Composition accessories

- Set of 2 fixing lugs made from treated steel, with fixings (without sealing washer, degraded IP).
- Glass-breaking set (hammer with support).

Name	Reference
Set of 2 fixing lugs	**NSYAEFS24**
Glass-breaking set	**NSYAEDXS24**

Door locks



Kit comprises 2 rings and 6 cams with assembly instruction sheet for another type of cylindrical lock (2).

(1) Incompatible with locking handle.
(2) Locks not referenced, to special order only. Consult our local sales office.
Note: the locks are not adaptable on lock screw models.

Accessories

Locks

Kit

Description	Reference
Handle without lock	**NSYTHPLM**
Sealing or padlocking cap	**NSYTBC**
Replacement spare lock	**NSYTK1**
EDF/RONIS kit	**NSYTK2**

Insert shape/type

Description	Reference
Square 6 mm	**NSYTC6CRN**
Square 7 mm	**NSYTC7CRN**
Square 8 mm	**NSYTC8CRN**
Double bar 3 mm (standard)	**NSYTDBCRN**
Double bar 5 mm	**NSYTDB5PLA**
Triangular 6.5 mm CNOMO	**NSYTT6CRN**
Triangular 8 mm	**NSYTT8CRN**

Handles with push-button release (delivered with insert ref. NSYTT8CRN)

Description	Reference
Key lock 1242 E	**NSYTHL1242EPLM**
Key lock 405	**NSYTHL405PLM**
Key lock 421	**NSYTHL421PLM**
Key lock 455	**NSYTHL455PLM**
Key lock 2331 A	**NSYTHL2331APLM**
Key lock 2433 A	**NSYTHL2433APLM**
Key lock 3113 A	**NSYTHL3113APLM**

Steel industrial boxes IP 66
Introduction

PB500226

IP 66 steel industrial boxes

IP 66 boxes

Technical characteristics

- Resistance to external mechanical impacts: IK 08.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.
- Cover fixing by 4 screws.
- Polyurethane sealing gasket applied.
- Wall fixing: by welded lugs.
- Earthing screws on the body and cover for earth continuity.
- 3 versions:

– Empty boxes, without internal fixing studs,
– Boxes with fixing studs for plate.
– Boxes with markings with a pitch of 12.5 mm for rails, on the width side.

Applications

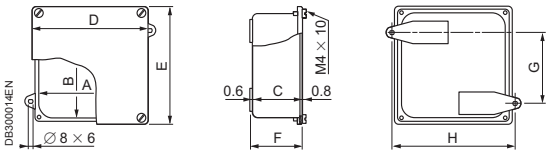
- Applications requiring good water and dust protection.

PB500226

PB500227

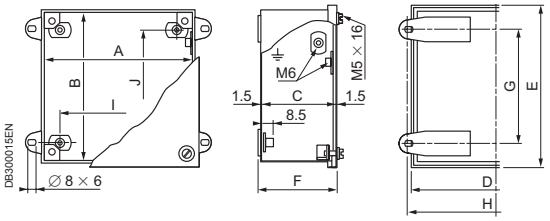
Internal dimensions (mm)			IP 66 box reference			Reference plates
Height	Width	Depth	Empty	Plate	Uprights	
80	80	45	**NSYSBS884**	-	-	-
100	100	55	**NSYSBS10105**	-	-	-
130	130	60	**NSYSBS13136**	-	-	-
160	160	65	**NSYSBS16166**	-	-	-
165	120	65	**NSYSBS16126**	**NSYSBS16126S**	-	**NSYAMPM1612SB**
200	200	90	**NSYSBS20209**	**NSYSBS20209S**	-	**NSYAMPM2020SB**
250	250	100	**NSYSBS252510**	**NSYSBS252510S**	-	**NSYAMPM2525SB**
300	200	110		-	**NSYSBS302011R**	-
300	300	100	**NSYSBS303010**	**NSYSBS303010S**	-	**NSYAMPM3030SB**
400	200	110		-	**NSYSBS402011R**	-
400	400	110	**NSYSBS404011**	**NSYSBS404011S**	-	**NSYAMPM4040SB**
500	200	110		-	**NSYSBS502011R**	-
500	300	110		-	**NSYSBS503011R**	-
600	200	110		-	**NSYSBS602011R**	-
600	300	110		-	**NSYSBS603011R**	-

Steel industrial boxes IP 66
Dimensions



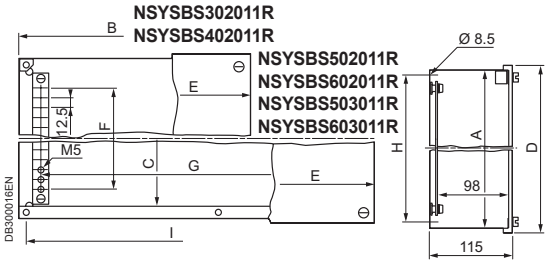
IP 66 steel industrial boxes without knock-outs

Internal dimensions (mm)			Dimensions (mm)			Fixing (mm)		Gross weight (kg)	Reference
A	B	C	D	E	F	G	H		
80	80	45	96	96	48	50	100	0.190	**NSYSBS884**
100	100	55	116	116	58	70	120	0.270	**NSYSBS10105**
130	130	60	142	142	63	100	144	0.300	**NSYSBS13136**
160	160	65	174	174	68	130	178	0.590	**NSYSBS16166**



Bare boxes and boxes with 4 plate-fixing points, IP 66

Internal dimensions (mm)			Dimensions (mm)			Box fixing (mm)		Plate fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	J	
120	165	65	131	176	72	137	137	90	140	**NSYSBS16126** **NSYSBS16126S**
200	200	96	211	211	97	174	217	170	170	**NSYSBS20209** **NSYSBS20209S**
250	250	100	262	262	107	224	267	220	220	**NSYSBS252510** **NSYSBS252510S**
300	300	100	312	312	107	274	317	270	270	**NSYSBS303010** **NSYSBS303010S**
400	400	110	412	412	117	374	417	370	370	**NSYSBS404011** **NSYSBS404011S**



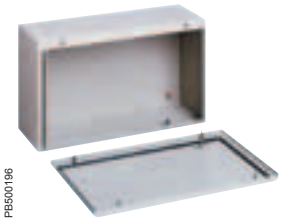
Boxes with uprights, IP 66

Internal dimensions (mm)			Dimensions (mm)			Uprights (mm)	Box fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	
200	300	-	211	311	125	250	184	284	**NSYSBS302011R**
200	400	-	211	411	125	350	184	384	**NSYSBS402011R**
200	500	172	211	511	125	450	184	484	**NSYSBS502011R**
200	600	172	211	611	125	550	184	584	**NSYSBS602011R**
300	500	272	312	512	225	450	284	484	**NSYSBS503011R**
300	600	272	312	612	225	550	284	584	**NSYSBS603011R**

Steel screw fixed cover boxes IP 66

Introduction

PB500088


PB500196

Technical characteristics

- Sheet-steel enclosure.
- Degree of protection: IP 66 according to IEC 60529.
- Resistance to external mechanical impacts: IK 10.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, polyester powder paint, RAL 7035 grey colour.
- Fixing of the cover with 4 CHc M5 x 35 shouldered captive screws.
- The enclosures are equipped with 4 backstuds for fixing the mounting plate.
- Polyurethane sealing gasket.
- Earthing screws on the body and cover for earth continuity.

Special versions

- On request, the industrial boxes can be delivered with:

– Other finishes (zinc chromate, metallised, etc.).
– Other colours.
– Etc.

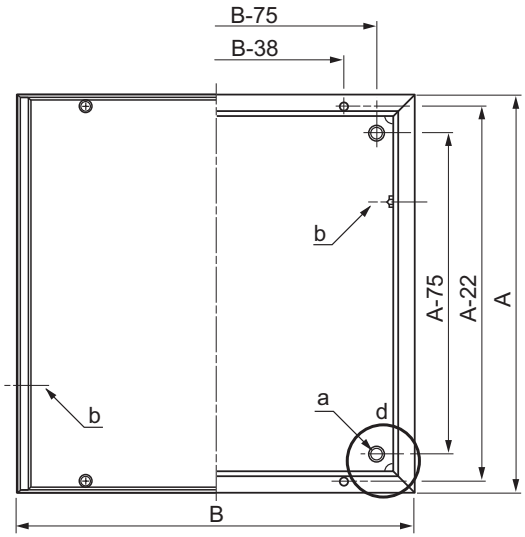
See our Customised offer.

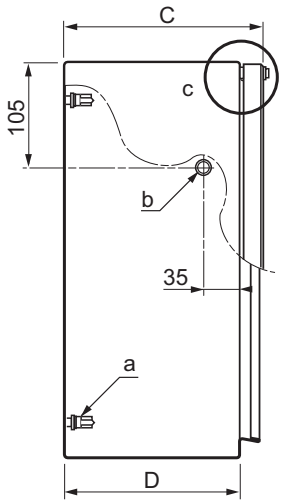
Applications

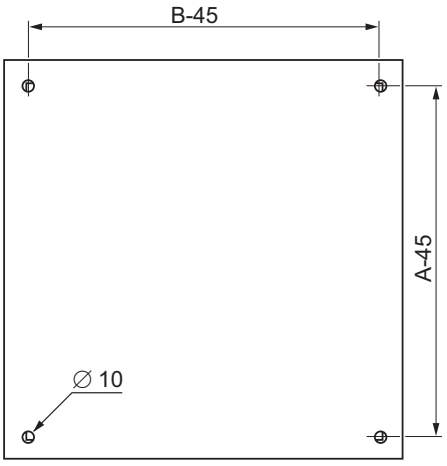
- Use in environments with a considerable risk of dust and/or liquid deposit creation.

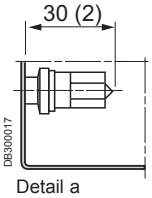
External dimensions (mm)			(mm)				Reference
Height	Width	Depth	A	B	C	D	
200	300	150	200	300	150	127	**NSYSBS302015**
300	300	150	300	300	150	127	**NSYSBS303015**
300	400	150	300	400	150	127	**NSYSBS403015**
300	500	200	300	500	200	177	**NSYSBS503020**

Dimensions

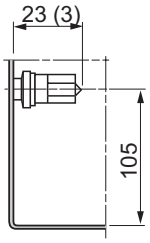




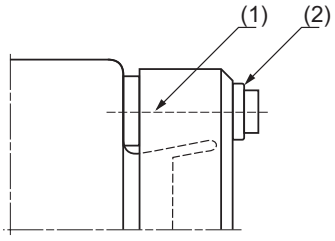




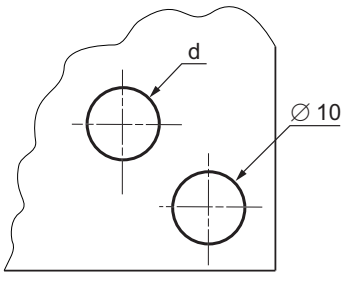
Detail a



Detail b



Detail c
(1) CHc M5 x 35 shouldered screw.
(2) Sealing washer.

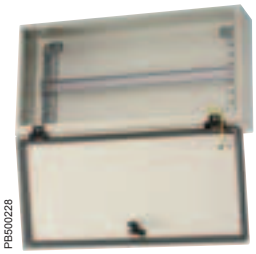


Detail d
Fixing hole

Steel screw fixed cover boxes IP 66
Accessories

Mounting plates

Enclosure dimensions (mm)			Mounting plates		
Height	Width	Depth	Plain	Microperforated	Telequick
200	300	150	**NSYMM32**	**NSYMF32**	**NSYMR32**
300	300	150	**NSYMM33**	**NSYMF33**	**NSYMR33**
300	400	150	**NSYMM43**	**NSYMF43**	**NSYMR43**
300	500	200	**NSYMM35**	**NSYMF53**	**NSYMR53**



This offer is completed by our range of Spacial S3DB terminal enclosures.

Wall-fixing lugs

Description	Reference
Set of 4 steel fixing lugs	**NSYAEFPFSC**
Set of 4 stainless-steel fixing lugs	**NSYAEFPFXSC**

See diagram, dimensions and characteristics: page **76**.

DIN rail kit

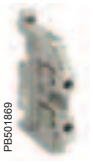
- Set of 2 supports and 1 symmetrical DIN rail 35 x 7.5 mm.
- Adjustment of DIN rail on 25 mm pitch.
- Rear support allows a 20 mm space at the rear of the enclosure.
- Material: zinc steel.
- Direct fixing on back welded studs.
- Supplied with fixing screws.

For enclosure (mm)		Reference
Height	Width	
200	300	**NSYAMRD2030**
300	300	**NSYAMRD3030**
300	400	**NSYAMRD3040**
300	500	**NSYAMRD3050**

DIN rail terminal blocks

Specific

Our specific offer: special dimensions and cut-outs. Please contact us.



Description	Width (mm)	Screw connection	Spring connection
Passthrough, 2.5 mm², grey	5	**AB1VV235U**	**AB1RRN235U2GR**
Passthrough, 2.5 mm², blue	5	**AB1VV235UBL**	**AB1RRN235U2BL**
Protective earth, 2.5 mm²	5	**AB1TP235U**	**AB1RRNTP235U2**

Steel
wall-mounting enclosures

Steel wall-mounting enclosures
Contents

Spacial CRN Steel wall-mounting enclosures **58**

Introduction 62
Selection guide 70
Accessories 74
Cable management 85

Spacial CRN and CRNG wall-mounting steel enclosures suitable for any application

Time Lasting

- Industrial welding process.
- Epoxy-polyester painting.
- Foamed-in polyurethane gasket.

All of the above guarantees quality, water and dust tightness for years.

Water and Dust Tightness

Front folded gutter prevents the entry of water, oil or liquids, ensuring IP66 protection.

Safety

For people:
- Two welded M6 x 15 earth studs welded to the back and one M6 x 15 stud on the door.

For your installation:
- Water and dust tightness IP66.
- Ruggedness IK10 to protect your component from external impact
- Hidden hinges to prevent the removal of the door.

PB500369

Smart

Welded door-reinforcement profile allowing the fixing of equipment in models from 500 mm high.

Convenient

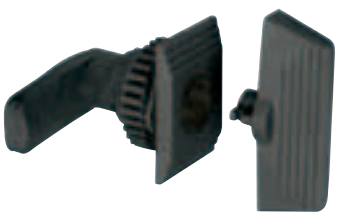
- Large embedded cable-entry plate with a neoprene seal, flush with the back of the enclosure.
- Direct fixing or using the brackets fixed from outside.

Practical

4 welded M8 x 15 back studs shouldered 10 mm for direct installation of mounting plate.

Sealed

Glazed tempered-glass door and fully water and dust tight, maintaining IP 66 and IK 08 protection.



PB500370

New aesthetics

- Enclosure in light grey RAL 7035
- Black lock to fit all your applications.

Broad range of accessories

PB500371

> Composition

1. Wall fixing
2. Floor-standing
3. Roof
4. Viewing

> Cable installation and management

5. Installation
6. Cable entries
7. Cable management
8. Thermal management
9. Earthing

Configured

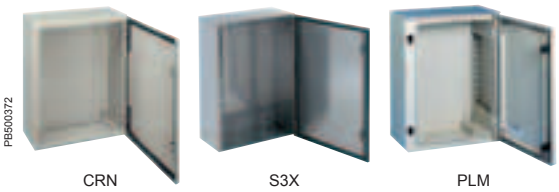
Save time by having your accessories mounted in the factory!
To find out more about our Configured offer, please contact us.

Universal offer
Introduction

The universal offer

3 Material Solutions

- Steel
- Stainless-steel
- Plastic & Polyester



You need an enclosure for indoor non-clean industrial environment.

• **Our answer:**
The Spacial steel range.

You need an enclosure for demanding industrial environment.

• **Our answer:**
The Spacial stainless-steel range.

You need an enclosure for infrastructure and harsh industrial environments.

• **Our answer:**
The Thalassa polyester range.

Spacial CRN

- A complete offer with 39 dimensions from 200 x 200 x 150 to 1000 x 800 x 300:
  – With plain door, without plain mounting plate.
  – With plain door and plain mounting plate.
  – With glazed door, without plain mounting plate.
- Degree of protection IP 66.
- Compliance with standard IEC 62208.
- A wide range of accessories to fit to all your applications.

Steel

Spacial CRNG

- A complete three-point locking system offer with 17 dimensions from 800 x 600 x 400 to 1400 x 1000 x 300 (mm):
  – With plain door without chassis.
  – With glazed door, without plain chassis.
- Degree of protection IP 66 (IP 55 for 2-door enclosures).
- Compliance with standard IEC 62208.
- A wide range of accessories to fit to all your applications.

Spacial CRN

Page **64**

Spacial CRNG

Page **66**

For harsh atmospheres

Spacial S3HF
EMC Enclosure

Page **566**

Spacial S3DEX
Atex Enclosure

Page **550**

Customised offer
Introduction

Enclosures adapted to your needs

At your request Spacial CRN enclosures are delivered with

- Colour of your choice.
- Customised dimensions.
- Pre-mounted accessories.
- Machining.
- Addition or removal of components.
- Special finishes (zinc chromate, plating, etc.).

Our offer includes

- Wall-mounting enclosures with a high-performance service.
- Time saving allows you to focus on your cabling, we take care of cut-outs and the mounting of accessories.
- Simple: one order, one delivery.
- Optimised management and material reception.
- Quality cut-outs.

Get a RAL 7032 enclosure thanks to our configured offer!

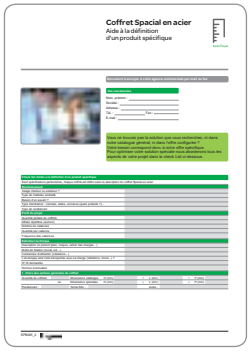
Wall-mounting enclosures with the answer to your special needs

PB500375

PB500297

Discover our communication tools to define your customised product

PB500298



PB500299

DB300072

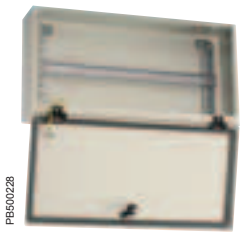
Download our DXF diagrams from our website.

Spacial steel enclosure applicative offer
Introduction

Spacial S3DB

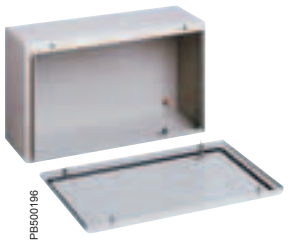
- 10 dimensions with a depth of 150 mm and plain door.
- Ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately).
- IP 66.

Spacial S3DB



Page **600**

Spacial S57



Page **53**

Spacial S3DM

- 8 dimensions with a depth of 150 mm and glazed door (plain door can be ordered separately).
- Ready for being equipped with a modular mounting plate (to be ordered separately).
- 10 references of mounting plates with 24 to 240 modules.
- Earth connection to be ordered separately.
- Top and bottom cable-gland plates.
- IP 66.

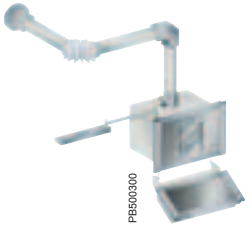
Spacial S3DM

Page **580**

Spacial S3CM

- 8 dimensions for the control enclosures.
- 1 keyboard box.
- 1 system of arms and fixed or rotating joints, support and lighting accessories.
- IP 54.

Spacial S3CM



Page **490**

Spacial steel enclosure applicative offer
Introduction

Enclosure equipped with Spacial VDM 19" uprights

- 5 enclosures with fixed rack from 5 to 17 U.
- 5 enclosures with swing rack from 4 to 16 U.
- Ten 2-body enclosures, depths 400 and 500 mm.
- IP 66.

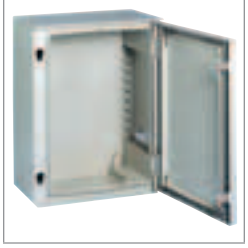
Spacial VDM

PB500203

Page **614**

For difficult atmospheres

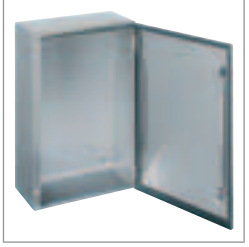
Thalassa PLM polyester enclosure



PB500301

Page **256**

Spacial S3X stainless-steel enclosure



PB500075

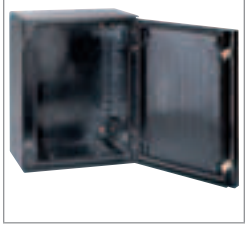
Page **190**

The universal offer

3 Material Solutions

- Steel
- Stainless-steel
- Plastic Polyester

Thalassa PLMEX ATEX polyester enclosure



PB500148

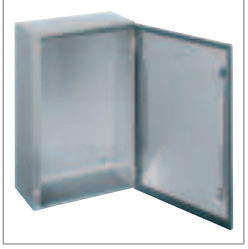
Page **558**

Spacial S3DEX ATEX steel enclosure

PB500098

Page **550**

Spacial S3XEX ATEX stainless-steel enclosure



PB500075

Page **554**

See also the accessories

PB500334

Accessories selector page **74**

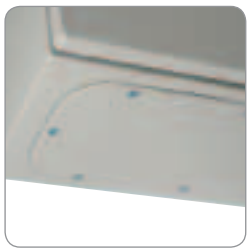
Wall-mounting steel enclosures
Introduction

PB500109

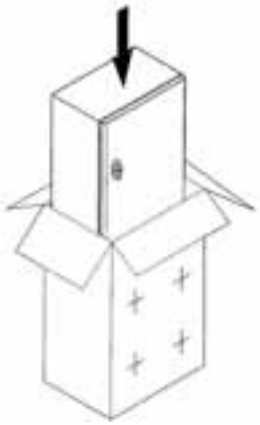
PB500110

PB500376

PB500377


PB500378

PB500379


DB300104

Delivered in reusable and ecological packaging. Technical instruction sheet included.

Technical characteristics

- 39 dimensions for this metal monobloc construction suite of enclosures with sides made from a single folded section. Back piece joined to the sides using a special profile forming a protected sealed area. Both externally and internally painted with texturised RAL 7035 grey epoxy-polyester resin.
- Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts.
- Selection guide: Page **70**.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Description

- IP 66 for one-door enclosures according to IEC 60529.
- IK 10 for plain door according to IEC 62262.
- IK 08 for glazed door according to IEC 62262.

Body

- 4 holes for direct fixing.
- Wall-fixing drill holes sealed with plastic plugs to ensure the degree of protection (supplied as standard).
- Wall-fixing bracket fixed from outside (brackets to be ordered separately).
- Direct cable entry.
- Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining).
- Insulated cable entries with knock-outs, available as an accessory.
- Easy to equip with 4 welded back studs shouldered 10 mm.

Door

- Monobloc construction with a punched metal door (not welded).
- 3-mm standard double-bar lock as standard. See page **83** (Wide choice of inserts as accessories).
- Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness for many years.
- Easily reversible door, fixed with two or three invisible hinges allowing the door to open to 120°.
- Reinforcement on plain doors with welded perforated door profiles for equipment fixing from models NSYCRN54150.
- Metal hinges - Easily reversible door.
- Welded earth studs on door and body.
- Delivered with a reusable packaging and technical instructions.

Certificates

- Compliance with European enclosure standard 62208.
- UL, CUL.
- NEMA 4 for single-door enclosure according to NEMA 250.
- NEMA 12, 12K and 13 for double-door enclosure according to NEMA 250.
- RoHS compliance.

Dimensions

A Enclosure height
B Enclosure width
C Enclosure depth

Fig. 1

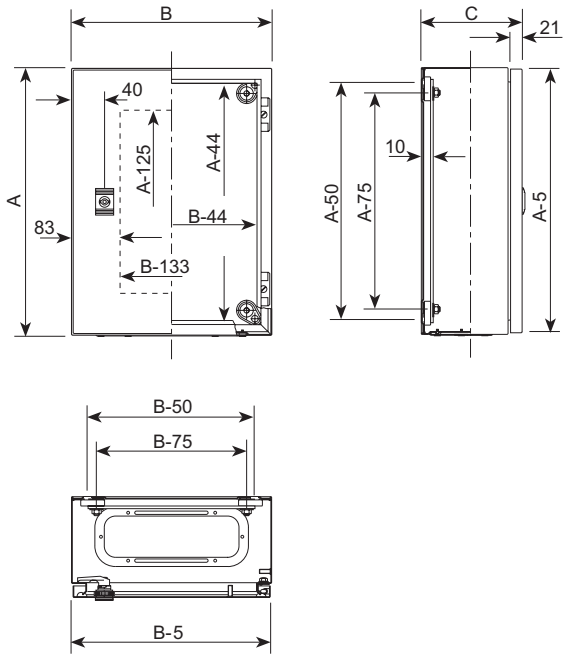
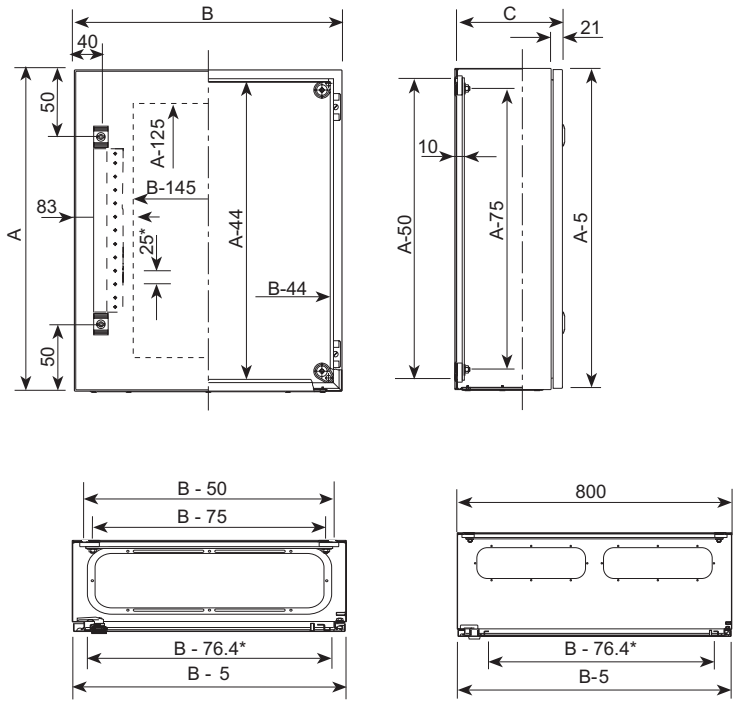


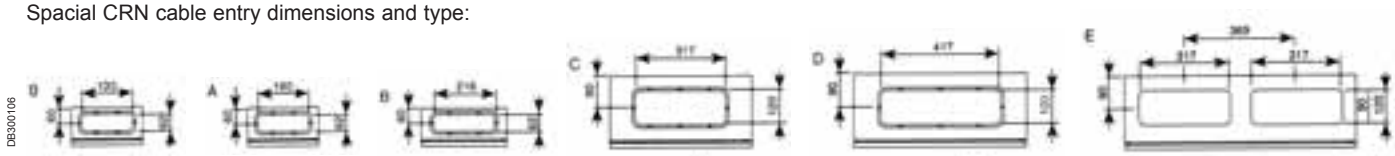
Fig. 2



Width < 800

Width ≥ 800

Spacial CRN cable entry dimensions and type:



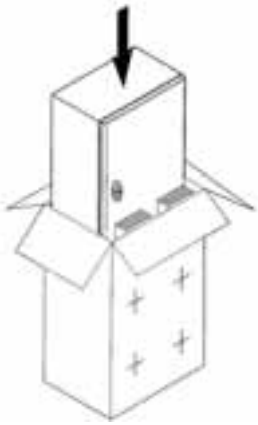
None of the T glazed-door enclosures have door-reinforcement profiles.

Our DXF diagrams and technical instruction sheets can be downloaded from our websites.

Wall-mounting steel enclosures with three-point locking system
Introduction

PB500373

PB500380


DB300073

Delivered in reusable and ecological packaging.
Technical instruction sheet included.

Technical characteristics

- 15 dimensions with three-point locking system for this metal construction suite of enclosures made from a single cross-shaped folded section. Both externally and internally painted with texturised RAL 7035 grey epoxy-polyester resin. All Spacial CRNG models include a three-point locking system.
- Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts.
- Selection guide: page **70**.

Description

- IP 66 for one-door enclosures, IP55 for two-door enclosures according to IEC 60529.
- IK 10 for plain door according to IEC 62262.
- IK 08 for glazed door according to IEC 62262.

Body

- 4 holes for direct fixing.
- Wall-fixing drill holes sealed with plastic plugs to ensure water and dust tightness (supplied as standard).
- Wall-fixing bracket fixed from outside, specific for large dimensions (to be ordered separatly). See on page **76**.
- Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining).
- Easy to equip with 4 welded back studs shouldered 10 mm (6 for widths of 1000 and 1200).
- Welded earth studs on door and body.

Door

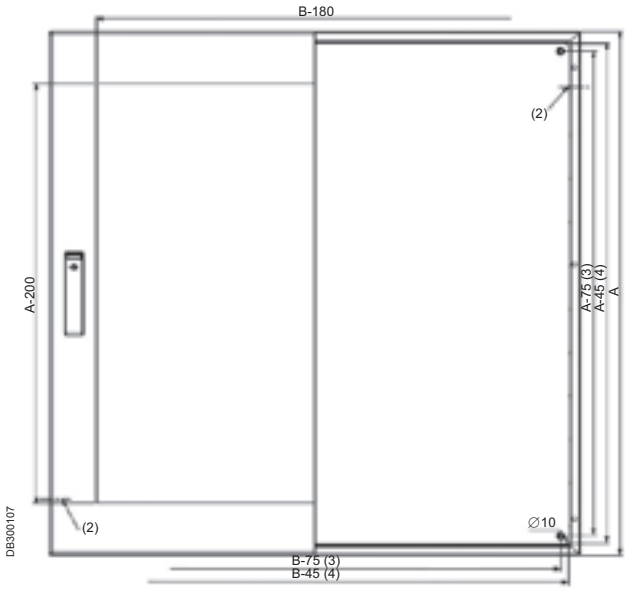
- Three-point locking system for one and two doors. Standard 5-mm double-bar lock.
- Metal hinges - Easily reversible door.
- Door-centring piece on two-door enclosures to ensure proper door alignment.
- Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness for many years.
- Reinforcement on plain doors with welded perforated door profiles for equipment fixing.
- Delivered with a reusable packaging and technical instructions.

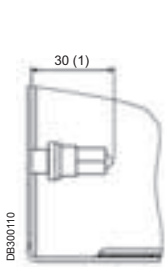
Certificates

- Compliance with European enclosure standard IEC 62208.
- UL, CUL.
- NEMA 4 for single-door enclosure according to NEMA 250.
- NEMA 12, 12K and 13 for double-door enclosure according to NEMA 250.
- RoHS compliance.

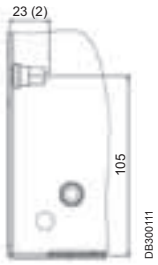
Dimensions

A Enclosure height
B Enclosure width
C Enclosure depth



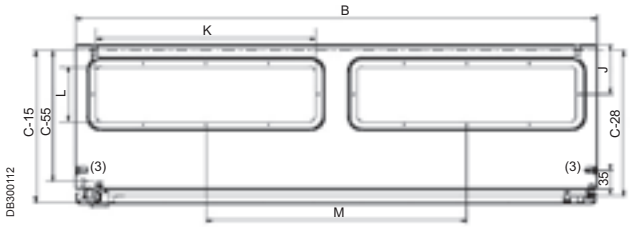


Detail (1)



Detail (2)

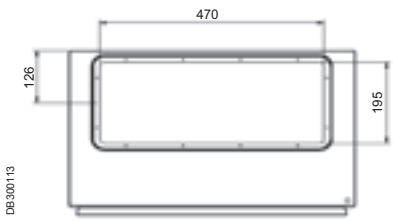
Cable entry type H: enclosure width > = 800 mm



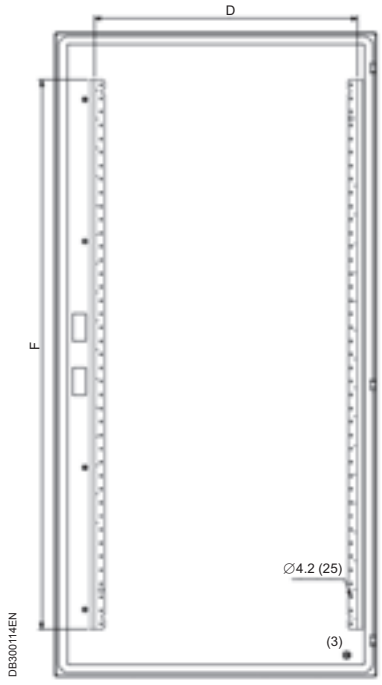
Enclosure					
Width (B)	Depth (C)	J	K	L	M
600	300-400	126	470	195	-
800	300-400	95	320	105	400
1000 (5)	300	125	420	105	500
1000	300-400	95	420	105	500
1200	300	95	420	105	500
1200	400	125	420	105	600

(1) Four M8 x 25 back studs.
(2) Two M6 x 17.5 earth studs.
(3) Spacing between the studs.
(4) Spacing between the perforations for direct fixing.
(5) Only models 1400 x 1000 x 300.

Cable entry type G: enclosure width 600 mm



Dimensions



Dimensions of the door-reinforcement profiles (1).

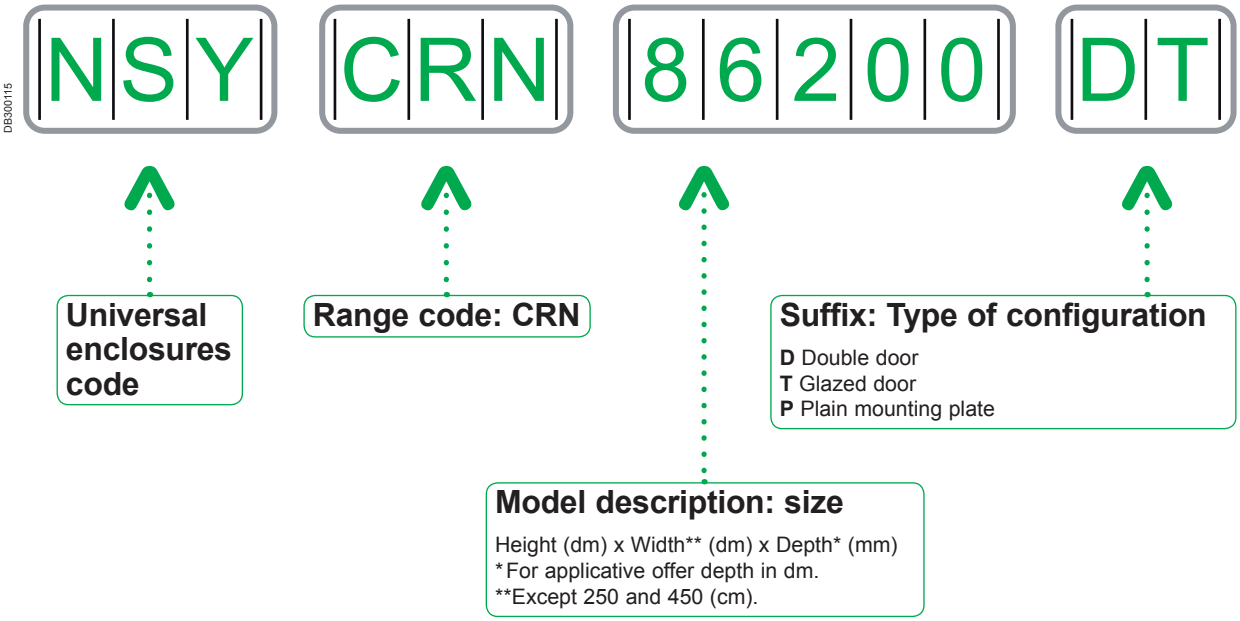
1-door enclosure		Reinforcement profile	
Height (A)	Width (B)	F	D
800	600	620	487
1000	600	820	487
1000	800	820	687
1200	600	1020	480
1200	800	1020	687

2-door enclosure		Reinforcement profile			
		Rt. Door		Lft. Door	
Height (A)	Width (B)	F	D	F	D
800	1000	620	387	620	437
800	1200	620	487	620	537
1000	1000	820	387	820	437
1000	1200	820	487	820	537
1200	1000	1020	387	1020	437
1200	1200	1020	487	1020	537
1400	1000	1020	387	1020	437

(1) The T doors only include vertical profiles.
(2) 25-mm passage.
(3) 1 M6 x 17.5 earth stud.

Download our DXF diagrams from our website.

Understand our references



References are based on the enclosure dimension, this allows you to quickly select the best choice for your installation.

Example:
– You need a Spacial **CRN** wall-mounting enclosure.
– Height **6**00 x Width **4**00 x Depth **200** mm.

> The reference will be NSY**CRN64200**.

You only know the dimension of the enclosure you need. Now it is easy to generate our reference.

Example:
– You need a Spacial steel wall-mounting enclosure.
– Height **5**00 x Width **5**00 x Depth **250** mm with a **T**ransparent door (**T**).
– Our steel wall mounting enclosure is the Spacial **CRN**.

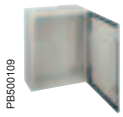
> The reference will be NSY**CRN55250T**.

Save time and avoid mistakes by checking your enclosure reference to order the right accessory.

Example:
– You need a plain mounting plate for a Spacial **CRN** enclosure.
– Your enclosure reference is NSY**64**250.
– The code for a plain mounting plate: NSY**MM**.

> The mounting plate reference will be NSY**MM64**.

Wall-mounting steel enclosures
Selection guide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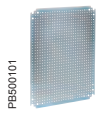
PB500110

PB500072

PB500100


PB500101

CRN Wall-mounting steel enclosures

Dimensions H	W	D	No. of doors	IP	Weight (1)	Plain door with mounting plate	Plain door without mounting plate	Glazed door without mounting plate	Plain	Silkscreened	Microperforated
						Page 64			Page 324		Page 325
200	200	150	1	66	2.5	-	NSYCRN22150 (2)	-	NSYMM22	-	-
200	300	150	1	66	3.9	-	NSYCRN23150 (2)	-	NSYMM32	-	NSYMF32
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-
300	250	200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-
300	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33
300	300	200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	NSYMF33
300	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMS43	NSYMF43
300	450	150	1	66	6.7	-	NSYCRN345150 (2)	-	NSYMM3045	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43
400	300	200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43
400	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44
400	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64
400	600	300	1	66	11.2	NSYCRN46300P	NSYCRN46300	NSYCRN46300T	NSYMM64	NSYMS64	NSYMF64
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54
500	400	200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54
500	400	250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54
500	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64
600	400	200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64
600	400	250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64
600	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65
600	500	200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65
600	500	250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65
600	600	200	1	66	16.3	-	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66
600	600	250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66
600	600	300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66
600	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMS86	NSYMF86
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75
700	500	250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86
800	600	250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86
800	600	300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86
800	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88
800	800	300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM86	-	NSYMF88
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106
1000	600	300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106
1000	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108
1000	800	300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108
CRNG Wall-mounting steel enclosures with three-point locking system											
800	600	400	1	66	30.0	-	NSYCRNG86400	NSYCRNG86400T	NSYMM86	NSYMS86	NSYMF86
800	1000	300	2	55	40.0	-	NSYCRNG810300D	-	NSYMM108	-	NSYMF108
800	1200	300	2	55	46.0	-	NSYCRNG812300D	-	NSYMM128	-	NSYMF128
1000	600	400	1	66	36.0	-	NSYCRNG106400	NSYCRNG106400T	NSYMM106	-	NSYMF106
1000	800	400	1	66	43.0	-	NSYCRNG108400	NSYCRNG108400T	NSYMM108	-	NSYMF108
1000	1000	300	2 (3)	55	47.0	-	NSYCRNG1010300D	NSYCRNG1010300T	NSYMM1010	-	NSYMF1010
1000	1200	300	2	55	55.0	-	NSYCRNG1012300D	-	NSYMM1210	-	NSYMF1210
1000	1200	400	2	55	60.0	-	NSYCRNG1012400D	-	NSYMM1210	-	NSYMF1210
1200	600	300	1	66	37.0	-	NSYCRNG126300	NSYCRNG126300T	NSYMM126	-	NSYMF126
1200	600	400	1	66	42.0	-	NSYCRNG126400	NSYCRNG126400T	NSYMM126	-	NSYMF126
1200	800	300	1	66	45.0	-	NSYCRNG128300	NSYCRNG128300T	NSYMM128	-	NSYMF128
1200	800	400	1	66	50.0	-	NSYCRNG128400	NSYCRNG128400T	NSYMM128	-	NSYMF128
1200	1000	300	2	55	56.0	-	NSYCRNG1210300D	-	NSYMM1210	-	NSYMF1210
1200	1000	400	2	55	61.0	-	NSYCRNG1210400D	-	NSYMM1210	-	NSYMF1210
1200	1200	300	2	55	64.0	-	NSYCRNG1212300D	-	NSYMM1212	-	2 x NSYMF126*
1200	1200	400	2	55	90.0	-	NSYCRNG1212400D	-	NSYMM1212	-	2 x NSYMF126*
1400	1000	300	2	55	80.0	-	NSYCRNG1410300D	-	NSYMM1410	-	-

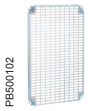
(1) Enclosure without mounting plate.

(2) Two cable gland plates, one on the top, one on the bottom.

(3) Except glazed door in single door.

*Order **NSYCRNGSDR** to mount double mounting plate.

Wall-mounting steel enclosures
Selection guide



Telequick	Bakelite	DIN rails chassis	Aluminum upright (7)	Step slides	Cable entry				
					Figure	Type of cable entry	Standard cable-gland plate	Insulated cable-gland plate	Cable-gland plate with FL cut-out
Page 326	Page 328	Page 329	Page 331	Page 330	Pages 65 67		Page 87	Page 86	Page 85
-	-	-	-	-	1	0	**NSYTLCRNO**	-	-
-	**NSYMB32**	-	-	-	1	B	**NSYTLCRNB**	-	-
-	-	-	-	-	1	0	**NSYTLCRNO**	-	-
NSYMR3025	**NSYMB3025**	-	**NSYMDVR3**	-	1	A	**NSYTLCRNA**	**NSYTSACRNA**	-
NSYMR3025	**NSYMB3025**	-	**NSYMDVR3**	**NSYSDCR200**	1	A	**NSYTLCRNA**	**NSYTSACRNA**	**NSYTFL13CRNA**
NSYMR33	**NSYMB33**	**NSYMD33**	**NSYMDVR3**	-	1	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR33	**NSYMB33**	**NSYMD33**	**NSYMDVR3**	**NSYSDCR200**	1	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR34	**NSYMB43**	-	**NSYMDVR3**	**NSYSDCR200**	1	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
-	**NSYMB43**	-	**NSYMDVR3**	-	1	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR43	**NSYMB43**	**NSYMD43**	**NSYMDVR4**	-	1	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR43	**NSYMB43**	**NSYMD43**	**NSYMDVR4**	**NSYSDCR200**	1	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR44	-	-	**NSYMDVR4**	**NSYSDCR200**	1	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR46	**NSYMB64**	-	**NSYMDVR4**	**NSYSDCR250**	1	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR46	**NSYMB64**	-	**NSYMDVR4**	**NSYSDCR300**	1	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR54	**NSYMB54**	**NSYMD54**	**NSYMDVR5**	-	2	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR54	**NSYMB54**	**NSYMD54**	**NSYMDVR5**	**NSYSDCR200**	2	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR54	**NSYMB54**	**NSYMD54**	**NSYMDVR5**	**NSYSDCR250**	2	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR55	-	-	**NSYMDVR5**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR64	**NSYMB64**	**NSYMD64**	**NSYMDVR6**	-	2	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR64	**NSYMB64**	**NSYMD64**	**NSYMDVR6**	**NSYSDCR200**	2	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR64	**NSYMB64**	**NSYMD64**	**NSYMDVR6**	**NSYSDCR250**	2	C	**NSYTLCRNC**	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR65	**NSYMB65**	-	**NSYMDVR6**	-	2	B	**NSYTLCRNB**	**NSYTSACRNB**	**NSYTFL13CRNB**
NSYMR65	**NSYMB65**	-	**NSYMDVR6**	**NSYSDCR200**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR65	**NSYMB65**	-	**NSYMDVR6**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR66	-	**NSYMD66**	**NSYMDVR6**	**NSYSDCR200**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR66	-	**NSYMD66**	**NSYMDVR6**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR66	-	**NSYMD66**	**NSYMDVR6**	**NSYSDCR300**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR68	-	-	**NSYMDVR6**	**NSYSDCR300**	2	E	**NSYTLCRNC** (4)	**NSYTSACRNC**	**NSYTFL21CRNC**
NSYMR75	**NSYMB75**	**NSYMD75**	**NSYMDVR7**	**NSYSDCR200**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR75	**NSYMB75**	**NSYMD75**	**NSYMDVR7**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR86	**NSYMB86**	**NSYMD86**	**NSYMDVR8**	**NSYSDCR200**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR86	**NSYMB86**	**NSYMD86**	**NSYMDVR8**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR86	**NSYMB86**	**NSYMD86**	**NSYMDVR8**	**NSYSDCR300**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR88	-	-	**NSYMDVR8**	**NSYSDCR200**	2	E	**NSYTLCRNC** (4)	**NSYTSACRNC** (5)	**NSYTFL21CRNC**
NSYMR88	-	-	**NSYMDVR8**	**NSYSDCR300**	2	E	**NSYTLCRNC** (4)	**NSYTSACRNC** (5)	**NSYTFL21CRNC**
NSYMR106	**NSYMB106**	-	**NSYMDVR10**	**NSYSDCR250**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR106	**NSYMB106**	-	**NSYMDVR10**	**NSYSDCR300**	2	D	**NSYTLCRND**	**NSYTSACRND**	**NSYTFL21CRND**
NSYMR108	**NSYMB108**	**NSYMD108**	**NSYMDVR10**	**NSYSDCR250**	2	E	**NSYTLCRNC** (4)	**NSYTSACRNC** (5)	**NSYTFL21CRNC**
NSYMR108	**NSYMB108**	**NSYMD108**	**NSYMDVR10**	**NSYSDCR300**	2	E	**NSYTLCRNC** (4)	**NSYTSACRNC** (5)	**NSYTFL21CRNC**
NSYMR86	**NSYMB86**	**NSYMD86**	**NSYMDVR8**	**NSYSDCR400**	3	G	**NSYTLG**	-	**NSYTLG2FL**
NSYMR810	-	-	**NSYMDVR8**	**NSYSDCR300**	4	H	**NSYTLE**	-	**NSYTLEFL**
2 x **NSYMR86***	-	-	**NSYMDVR8**	**NSYSDCR300****	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR106	**NSYMB106**	-	**NSYMDVR10**	**NSYSDCR400**	3	G	**NSYTLG**	-	**NSYTLG2FL**
NSYMR108	**NSYMB108**	**NSYMD108**	**NSYMDVR10**	**NSYSDCR400**	4	H	**NSYTLD**	-	**NSYTLDFL**
NSYMR1010 (6)	**NSYMB1210**	-	**NSYMDVR10**	**NSYSDCR300**	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR1012 (6)	**NSYMB1210**	-	**NSYMDVR10**	**NSYSDCR300****	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR1012 (6)	-	-	**NSYMDVR10**	**NSYSDCR400****	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR126	-	-	**NSYMDVR12**	**NSYSDCR300**	3	G	**NSYTLG**	-	**NSYTLG2FL**
NSYMR126	-	-	**NSYMDVR12**	**NSYSDCR400**	3	G	**NSYTLG**	-	**NSYTLG2FL**
NSYMR128	-	**NSYMD128**	**NSYMDVR12**	**NSYSDCR300**	4	H	**NSYTLD**	-	**NSYTLDFL**
NSYMR128	-	**NSYMD128**	**NSYMDVR12**	**NSYSDCR400**	4	H	**NSYTLD**	-	**NSYTLDFL**
NSYMR1210 (6)	**NSYMB1210**	-	**NSYMDVR12**	**NSYSDCR300**	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR1210 (6)	**NSYMB1210**	-	**NSYMDVR12**	**NSYSDCR400**	4	H	**NSYTLE**	-	**NSYTLEFL**
2 x **NSYMR126***	-	-	**NSYMDVR12**	**NSYSDCR300****	4	H	**NSYTLE**	-	**NSYTLEFL**
2 x **NSYMR126***	-	-	**NSYMDVR12**	**NSYSDCR400****	4	H	**NSYTLE**	-	**NSYTLEFL**
NSYMR1410 (6)	-	-	-	**NSYSDCR300**	4	H	**NSYTLE**	-	**NSYTLEFL**

(4) With two holes.
(5) For flange openings type E, two **NSYTSACRNC** are required.
(6) Ref **NSYEMR** mandatory.
(7) Order **NSYAMCSF**, **NSYMDVR12** in steel.
Except for double mounting plate, order in addition ref. **NSYSDRSDCR300 (D300) or **NSYSDRSDCR400** (D400).

Wall-mounting steel enclosures
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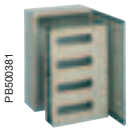
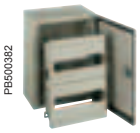
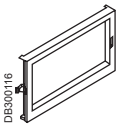
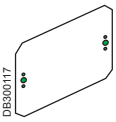
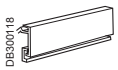
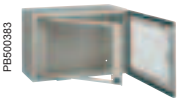








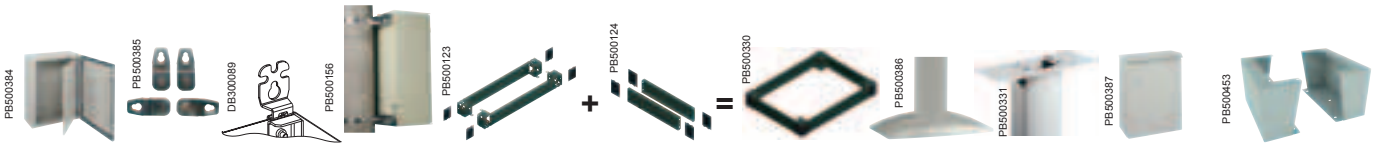




CRN Wall-mounting steel enclosures														
Dimensions			No. of doors	IP	Weight (1)	Electric distribution						Electronic and network		
H	W	D				DLA insulated distribution chassis	DL metal distribution chassis	DLM metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate	Fixed 19" rack	Swing 19" rack	
						Page 273	Page 384	Page 382	Page 383		Page 385	Page 614	Page 614	
200	200	150	1	66	2.5	-	-	-	-	-	-	-	-	
200	300	150	1	66	3.9	-	-	-	-	-	-	-	-	
250	200	150	1	66	3.2	-	-	-	-	-	-	-	-	
300	250	150	1	66	4.2	NSYDLPLM18	NSYDLCR18	-	-	-	-	-	-	
300	250	200	1	66	4.9	NSYDLPLM18	NSYDLCR18	-	-	-	-	-	-	
300	300	150	1	66	5	-	-	-	-	-	-	-	-	
300	300	200	1	66	6	-	-	-	-	-	-	-	-	
300	400	200	1	66	6.4	-	-	-	-	-	-	-	-	
300	450	150	1	66	6.7	-	-	-	-	-	-	-	-	
400	300	150	1	66	6	NSYDLA24	NSYDLCR24/ NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	
400	300	200	1	66	6.8	NSYDLA24	NSYDLCR24* (2)/ NSYDLCR36* (2)	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	
400	400	200	1	66	8	-	-	-	-	-	-	-	-	
400	600	250	1	66	10	-	-	-	-	-	-	NSYVDM8UF	NSYVDM7UP	
400	600	300	1	66	11.2	-	-	-	-	-	-	NSYVDM8UF	NSYVDM7UP	
500	400	150	1	66	8.7	NSYDLA48	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	
500	400	200	1	66	9.8	NSYDLA48	NSYDLCR48* (2)	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	
500	400	250	1	66	11	NSYDLA48	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	
500	500	250	1	66	12.8	-	-	-	-	-	-	-	-	
600	400	150	1	66	9.3	NSYDLA48P	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	
600	400	200	1	66	10.8	NSYDLA48P	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	
600	400	250	1	66	12.3	NSYDLA48P	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-		
600	500	150	1	66	11.3	-	NSYDLCR88	-	-	-	-	-	-	
600	500	200	1	66	14.3	-	NSYDLCR88	-	-	-	-	-	-	
600	500	250	1	66	16.2	-	-	-	-	-	-	-	-	
600	600	200	1	66	16.3	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	
600	600	250	1	66	18.2	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	
600	600	300	1	66	19.8	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	
600	800	300	1	66	26	-	-	-	-	-	-	-	-	
700	500	200	1	66	17.3	NSYDLA66/NSYDLA88	NSYDLCR110	NSYDLM66/NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	
700	500	250	1	66	19.3	NSYDLA66/NSYDLA88	-	NSYDLM66/NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	
800	600	200	1	66	21.8	NSYDLA84/NSYDLA112	NSYDLCR135	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	-	
800	600	250	1	66	24.8	NSYDLA84/NSYDLA112	-	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	
800	600	300	1	66	26.3	NSYDLA84/NSYDLA112	-	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	
800	800	200	1	66	29.5	-	-	-	-	-	-	-	-	
800	800	300	1	66	32.5	-	-	-	-	-	-	-	-	
1000	600	250	1	66	28.4	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	
1000	600	300	1	66	30.6	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	
1000	800	250	1	66	34.5	NSYDLA234	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	
1000	800	300	1	66	37.4	NSYDLA234	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	
CRNG Wall-mounting steel enclosures														
800	600	400	1	66	30	NSYDLA84/NSYDLA112	-	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	
800	1000	300	2	55	40	-	-	-	-	-	-	-	-	
800	1200	300	2	55	46	-	-	-	-	-	-	-	-	
1000	600	400	1	66	36	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	
1000	800	400	1	66	43	NSYDLA234	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	
1000	1000	300	2	55	47	-	-	-	-	-	-	-	-	
1000	1200	300	2	55	55	-	-	-	-	-	-	-	-	
1000	1200	400	2	55	60	-	-	-	-	-	-	-	-	
1200	600	300	1	66	37	-	-	-	-	-	-	-	-	
1200	600	400	1	66	42	-	-	-	-	-	-	-	-	
1200	800	300	1	66	45	-	-	-	-	-	-	-	NSYVDM25U8P	
1200	800	400	1	66	50	-	-	-	-	-	-	-	NSYVDM25U8P	
1200	1000	300	2	55	56	-	-	-	-	-	-	-	-	
1200	1000	400	2	55	61	-	-	-	-	-	-	-	-	
1200	1200	300	2	55	64	-	-	-	-	-	-	-	-	
1200	1200	400	2	55	90	-	-	-	-	-	-	-	-	
1400	1000	300	2	55	80	-	-	-	-	-	-	-	-	

(1) Enclosure without mounting plate.
(2) To be coupled in 200 mm depth enclosure, the lifting bracket ref. **NSYEX608** must be ordered separately.

Wall-mounting steel enclosures
Selection guide



Installation system													
Inner door	Wall-fixing lugs	Kit for heavy loads*	Post-fixing device	Single plinths side plate**		Single plinths front plate**		Supporting pole	Coupling plates	Canopies	Floor stand kit for WM	
				100 mm	200 mm	100 mm	200 mm				300 mm	400 mm
Page 88	Page 75	Page 76	Page 78	Page 79				Page 77		Page 82	Page 80	
-	NSYPFCR	-	-	-	-	-	-	-	-	-	-	-
-	NSYPFCR	-	-	-	-	-	-	-	-	-	-	-
-	NSYPFCR	-	-	-	-	-	-	NSYCOCN80	-	NSYTJ2015	-	-
-	NSYPFCR	-	-	-	-	-	-	NSYCOCN80	NSYCHCOA	NSYTJ2515	-	-
-	NSYPFCR	-	-	-	-	-	-	NSYCOCN80	NSYCHCOA	NSYTJ2520	-	-
-	-	-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-
-	-	-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-
-	-	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-
-	NSYPFCR	-	-	-	-	-	-	-	-	-	-	-
NSYPIN43	NSYPFCR	-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-
NSYPIN43	NSYPFCR	-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-
-	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-
-	NSYPFCR	-	NSYSFPSC60	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ6025	-	-
-	NSYPFCR	-	NSYSFPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	NSYCOCN80	NSYCHCOD	NSYTJ6030	-	-
NSYPIN54	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ4015	-	-
NSYPIN54	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-
NSYPIN54	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4025	-	-
-	NSYPFCR	-	NSYSFPSC50	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ5025	-	-
NSYPIN64	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ4015	-	-
NSYPIN64	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-
NSYPIN64	NSYPFCR	-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4025	-	-
-	NSYPFCR	-	NSYSFPSC50	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ5015	-	-
-	NSYPFCR	-	NSYSFPSC50	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ5020	-	-
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-	NSYPFCR	-	NSYSFPSC60	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ6025	-	-
-	NSYPFCR	-	NSYSFPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	NSYCOCN80	NSYCHCOD	NSYTJ6030	-	-
-	NSYPFCR	-	NSYSFPSC80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	NSYCOCN80	NSYCHCOC (3)	NSYTJ8030	-	-
NSYPIN75	NSYPFCR	-	NSYSFPSC50	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ5020	-	-
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NSYPIN86	NSYPFCR	-	NSYSFPSC60	-	-	-	-	NSYCOCN80	NSYCHCOD	NSYTJ6020	-	-
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NSYPIN108	NSYPFCR	-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	NSYCOCN80	NSYCHCOC (3)	NSYTJ8030	-	-
NSYPIN86	NSYAEFPFSC	NSYAEFAHLBSC	NSYSFPSC60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6040	-	-
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34
NSYPIN106	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6040	-	-
NSYPIN108	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8040	NSYWMK43	NSYWMK44
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12040	NSYWMK43	NSYWMK44
NSYPIN126	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6030	-	-
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NSYPIN128	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8030	NSYWMK33	NSYWMK34
NSYPIN128	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8040	NSYWMK43	NSYWMK44
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10040	NSYWMK43	NSYWMK44
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12040	NSYWMK43	NSYWMK44
-	NSYAEFPFSC	NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34

(3) 2 coupling plates and supporting poles are required.

*Order the **NSYAEFPFSC** wall-fixing brackets separetly.

To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM.

Accessory selector

For the roof
Page **82**

For fixing
Page **76**

For coupling
Page **81**

For mounting
Page **324**

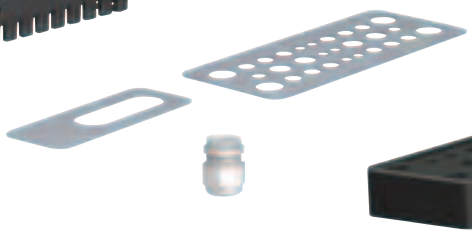
For the door
Page **469**

Thermal management
Page **658**

For closing
Page **83**

Customised offer
Page **9**

Cable gestion
Page **444**



For supporting the cables
Page **438**

For cable entries
(Cable-gland plate)
Page **85**

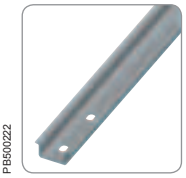
For cable entries
(Membranes, cable glands)
Page **420**

See also the accessories

Mounting plates
page **324**

Modular Chassis
page **382**

19" rack
page **616**



DIN rail and fixings
pages **365** and **377**

Composition accessories
Fixing accessories

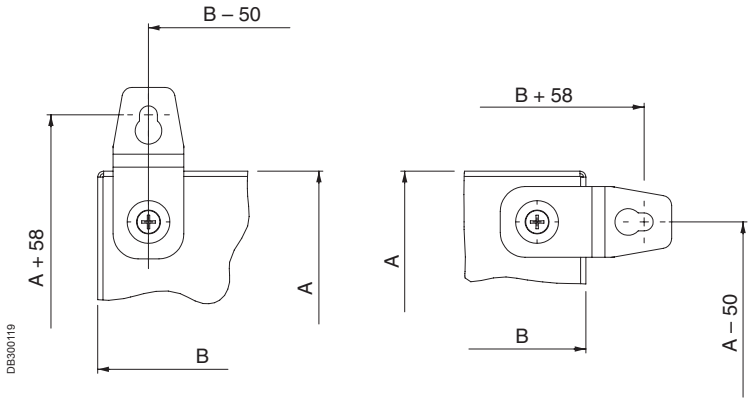
PB500385

Wall-fixing kit for Spacial CRN enclosures

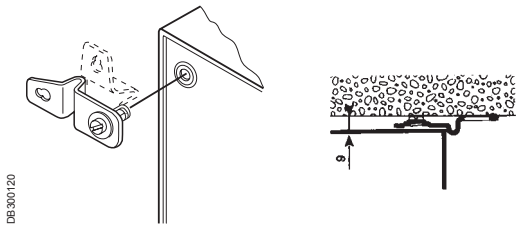
- Made from passivated zinc-coated steel.
- They are fixed from the outside and can be positioned vertically or horizontally indistinctly.
- Maximum load: horizontally 180 kg vertically 350 kg.
- Not included in the standard supply.
- For Spacial CRNG enclosures use **NSYAEFPFSC** on page **76**.

Description	Reference
4 wall-fixing lugs in steel	**NSYPFCR**
4 wall-fixing lugs in Stainless Steel	**NSYPFC2X**

A Enclosure height
B Enclosure width

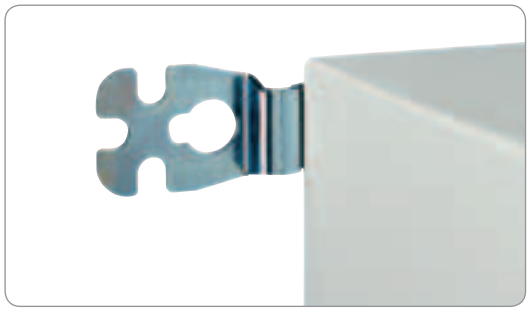


DB300119



DB300120

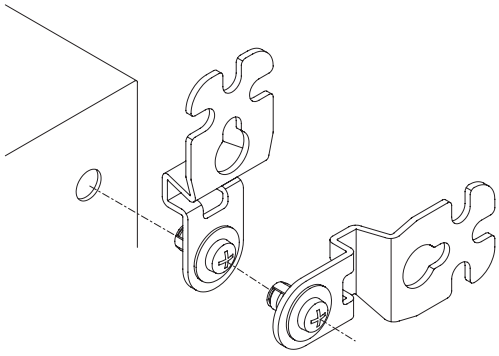
Composition accessories
Fixing accessories


PB500022

Wall-fixing lugs

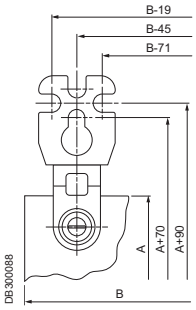
Set of 4 wall-fixing lugs
- Mounted directly on the rear of the enclosure, either in horizontal or vertical position.
- Two types of position, steel and 304 stainless-steel, for a wall-enclosure separation of 10 mm.
- Acceptable load:
– Horizontal lug: 180 kg.
– Vertical lug: 350 kg.
- Supplied with fixing screws and pre-mounted sealing gaskets.

Description	Reference
Set of 4 steel fixing lugs	**NSYAEFPFSC**
Set of 4 stainless-steel fixing lugs	**NSYAEFPFXSC**


DB300087

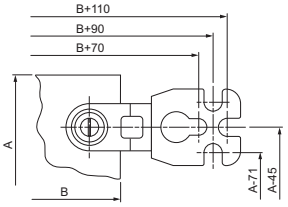
Installation from the outside.

Fixing centre-to-centre distance with lugs (M8 screw)

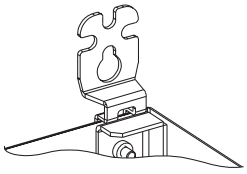


Vertical position.

A: Enclosure height
B: Enclosure width



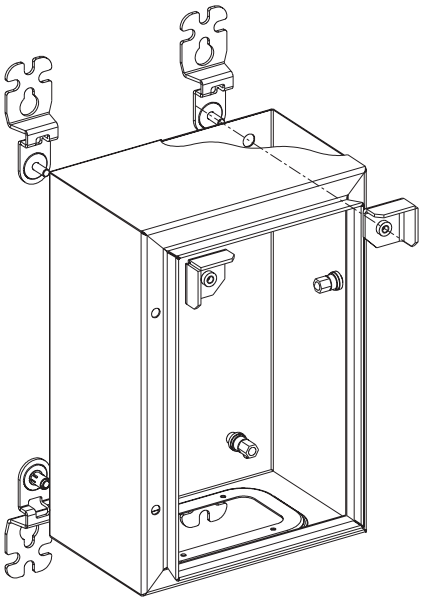
Horizontal position.



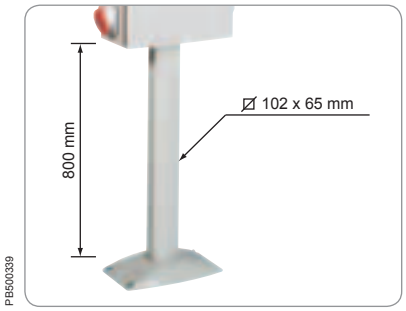
Kit for heavy loads

Kit made up of 2 steel reinforcement pieces.
- Maximum load, 400 kg.
- To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).

Description	Reference
Kit for heavy loads	**NSYAEFAHLBSC**


DB300089

Fixing accessories



PB500339

Mounting pillar

- The mounting pillar is fixed to the bottom of the enclosure using an adapter plate (see below).
- This plate needs to be ordered with the pillar and replaces the cable-gland plate.
- Overall height of the mounting pillar: 800 mm.
- Material: extruded aluminium, polyester powder paint, textured finish, RAL 7035 grey colour.
- Suitable for all Spacial CRN enclosures up to dimensions 600 x 400 x 250 mm (except Spacial CRN 200 x 200 x 150 and Spacial CRN 250 x 200 x 150).
- Cannot be mounted on Spacial CRNG enclosures.

Reference
NSYCOCN80

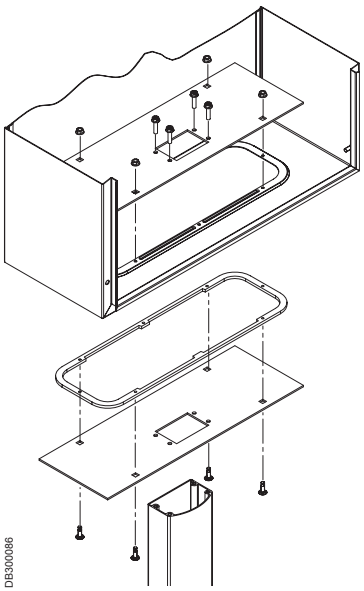
PB500331

Adapter plate

- Plate for fixing mounting pillar to enclosure. This plate replaces the cable-gland plate delivered with the enclosure.
- Material: steel, polyester powder paint, textured finish, RAL 7035 grey colour

Width of enclosure (mm)	Depth of enclosure (mm)	To be coupled with cable entry*	References
250	150-200	A	**NSYCHCOA**
300-400-450-500	150-200	B	**NSYCHCOB**
400	200-250	C	**NSYCHCOC**
500-600	200-250-300	D	**NSYCHCOD**

*See type of entry in drawings on page **65**.


DB300086

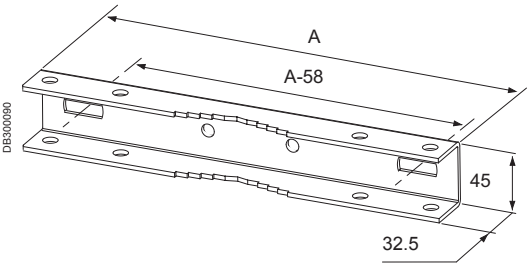
Composition accessories
Fixing accessories

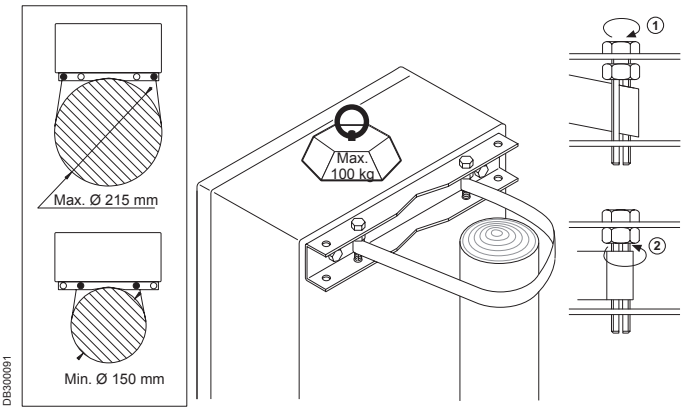
PB500156

Post-fixing device for Spacial steel enclosure

For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm).
- Material: galvanised steel.
- Rail fixed to the inserts in the rear of the enclosure with 8-mm screws.
- Maximum load: 100 kg.
- They allow the mounting of protection canopies.
- For steel enclosures with widths of 300, 400, 500, 600 and 800 mm.

Description	A (mm)	Reference
Post-fixing for enclosure with W 300 mm	295	**NSYSFPSC30**
Post-fixing for enclosure with W 400 mm	395	**NSYSFPSC40**
Post-fixing for enclosure with W 500 mm	495	**NSYSFPSC50**
Post-fixing for enclosure with W 600 mm	595	**NSYSFPSC60**
Post-fixing for enclosure with W 800 mm	795	**NSYSFPSC80**





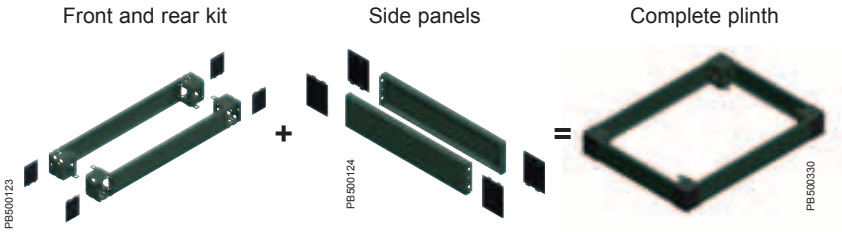
Machining of your enclosure before painting with our customisation service.

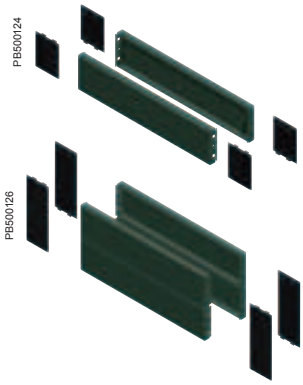
Specific

Composition accessories
Fixing accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.





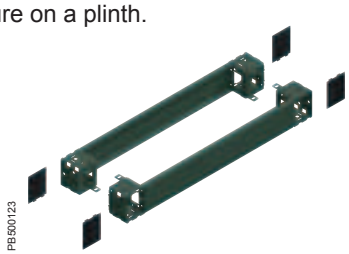
Plinth side panels for Spacial steel enclosure

They are fixed to the corners of the plinth by two fixing screws.
- Material: folded sheet steel.
- Finishes: epoxy-polyester resin paint, RAL 7022 grey colour.
- Protection degree: IP 30 for the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Models with heights: 100 and 200 mm.
- For enclosure depths 300 and 400 mm:

– Height 100 mm: 2 side panels, 4 corner covers and fixing elements.
– Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
Depth	100 mm	200 mm
300	**NSYSPS3100SD**	**NSYSPS3200SD**
400	**NSYSPS4100SD**	**NSYSPS4200SD**

Order ref. **NSYAPFWM** when mounting the wall-mounting enclosure on a plinth.

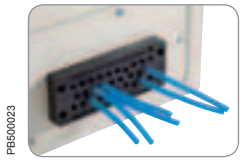


Front and rear plinth

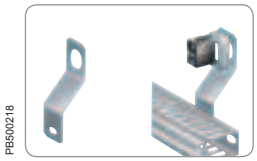
Accessory shared with the Spacial SM floor-standing enclosure.
Numerous options available: plain, ventilated, with cable gland.
See page **137**.

Nominal dimensions (mm)	Reference	
Width	100 mm	200 mm
600	**NSYSPF6100**	**NSYSPF6200**
800	**NSYSPF8100**	**NSYSPF8200**
1000	**NSYSPF10100**	**NSYSPF10200**
1200	**NSYSPF12100**	**NSYSPF12200**

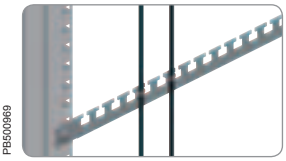
See also the accessories



Accessories for cable entries page **85**

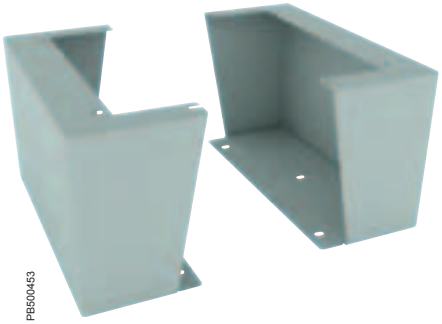


Cable-support accessories page **446**



Cable-management accessories page **420**

Composition accessories
Fixing accessories


PB500453

Floor Stand Kit for wall-mounting enclosure

- Set of 2 feet, elevating wall-mounting enclosures.
- Cut-outs needed on enclosure – drilling template provided with the kit.
- Made of steel: thickness of 2.5 mm for the sides and 3 mm for the base.
- Coating: RAL 7035 gray polyester-powder finish.
- Maximum load: 250 kg.

Supply: 2 platform feet (right and left) and fixing elements.

Enclosure depth		Foot height		Reference
mm	inches	mm	inches	
300*	12	300	12	**NSYWMK33**
400**	16	300	12	**NSYWMK43**
300*	12	450	18	**NSYWMK34**
400**	16	450	18	**NSYWMK44**

* When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 & 1200 mm, except model H 600 x W 800 x D 300 mm.
** When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.

PB500454

Compatible with Spacial S3D, S3DC & CRNG enclosures.

Composition accessories
Coupling accessories

PB500335

Installation example.

Coupling of Spacial steel enclosures

Available in 2 versions:
- Coupling version without cable entry.
- Version with coupling frame allowing the entry of cables.
- Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors.

Kit for fixing 2 joined enclosures
- Kit made up of 4 spacers and their fixings.

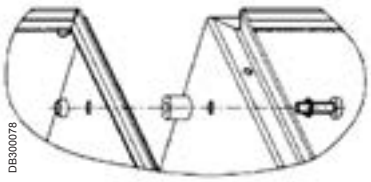
Coupling frame
- Allows lateral coupling of 2 enclosures.
- Frame made from polyester charged with fibreglass, self-extinguishing.
- A built-in sealing gasket guarantees the protection degree of IP 66.
- Mounting by screws, included.
- Dimensions: 435 x 185 mm and 635 x 185 mm.

These frames allow the door to open to 120º.

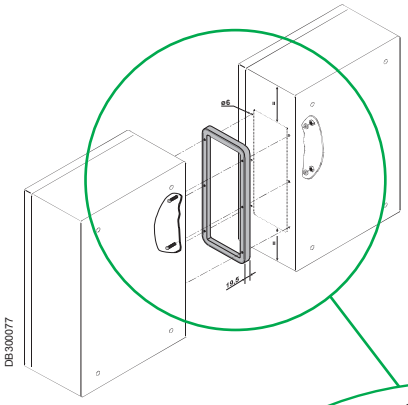
Description	Reference
Batch of 4 coupling spacers	**NSYAEUBUSC**
Coupling frame, 435 x 185 mm	**NSYAEUBU41SC**
Coupling frame, 635 x 185 mm	**NSYAEUBU61SC**

PB500336

Version without cable entry.


DB300078

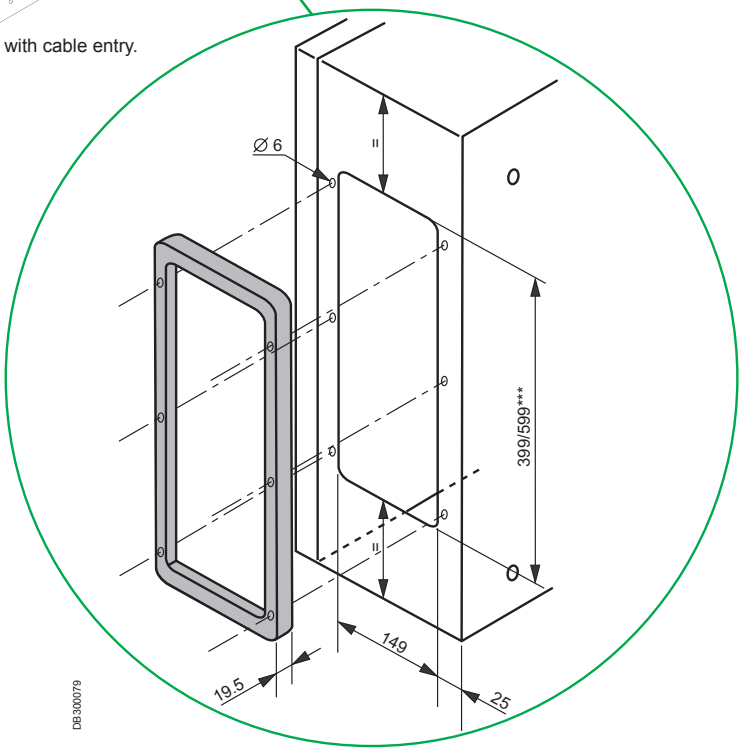
Version without cable entry.


DB300077

Version with cable entry.

PB500337

Version with cable entry.



DB300079

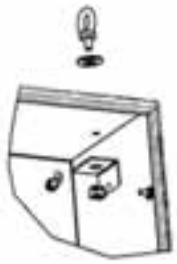
Composition accessories
Hoisting accessories

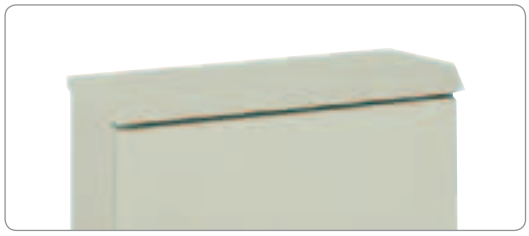
PB500338

Eyebolts

Set of two M8 eyebolts.
- Material: zinc-coated moulded steel.
- They are fixed directly to the body of the floor-standing enclosure.
- Maximum load to be installed: 210 kg per enclosure when slinging at 60°.
- Cannot be installed with the canopy in place.
- Reinforcing brackets attached to the rings,
- These brackets also act as a drilling template.
- Have your cut-outs made by our configured service.
- Paint touch-up pen, page **483**.

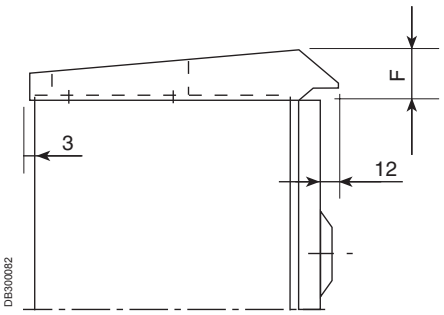
Description	Reference
Batch of 2 M8 eyebolts	**NSYAELYTCRG8**


DB300081

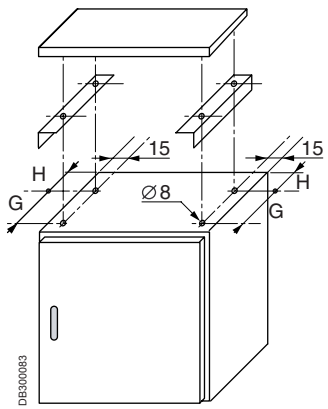

PB500329

Protection canopy

Direct fixing to the body of the enclosure by 4 M6 screws.
- Material: sheet steel made from painted galvanised steel, structured finish, epoxy-polyester powder, RAL 7035 grey colour.
- Delivered with the fixings required for installation.
- To be used for all outdoor installations.
- Have your cut-outs made by our configured service.
- Paint touch-up pen, page **483**.



DB300082

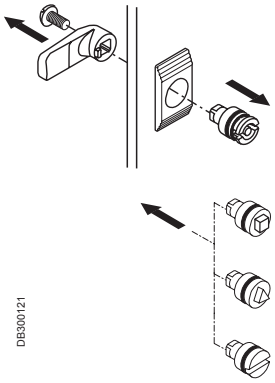


DB300083

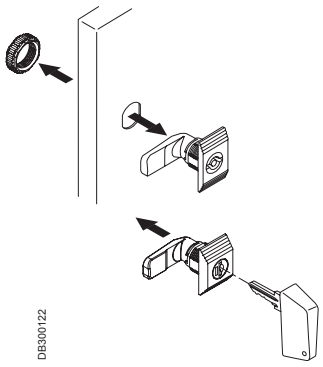
For enclosure		F	G	H	Reference
Width	Depth				
200	150	36	75	23	**NSYTJ2015**
250	150	36	75	23	**NSYTJ2515**
300	150	36	75	23	**NSYTJ3015**
400	150	36	75	23	**NSYTJ4015**
500	150	36	75	23	**NSYTJ5015**
500	200	36	130	23	**NSYTJ5020**
600	200	36	130	23	**NSYTJ6020**
250	200	36	130	23	**NSYTJ2520**
300	200	36	130	23	**NSYTJ3020**
400	200	36	130	23	**NSYTJ4020**
800	200	36	130	23	**NSYTJ8020**
400	250	42	150	48	**NSYTJ4025**
500	250	42	150	48	**NSYTJ5025**
600	250	42	150	48	**NSYTJ6025**
800	250	42	150	48	**NSYTJ8025**
600	300	42	200	48	**NSYTJ6030**
800	300	42	200	48	**NSYTJ8030**
1000	300	42	200	48	**NSYTJ10030**
1200	300	42	200	48	**NSYTJ12030**
600	400	42	300	48	**NSYTJ6040**
800	400	42	300	48	**NSYTJ8040**
1000	400	42	300	48	**NSYTJ10040**
1200	400	42	300	48	**NSYTJ12040**

Dimensions and cut-outs.

Locking accessories



Insert change.



Lock change.

Ø 7.5 mm

Ø 10 mm

NSYCBCCRN

Lock for Spacial CRN enclosure

NSYCDB3 3 mm Ø standard double-bar lock.
By fixing the wing nut to the lock, the double-bar lock becomes a handle lock.

- Operation using:

– Wing key ref.: **NSYDBP**.

– Key **NSYLDB5**.

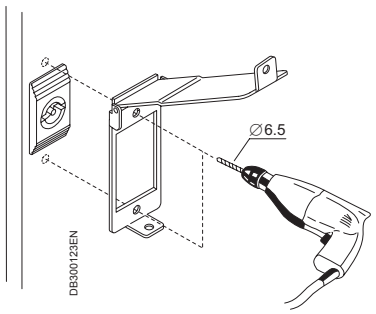
(according to DIN 43668).

Type of lock	Insert reference	Key reference
3 mm double bar	**NSYTDBCRN***	**NSYLDB5**
☐ 6 mm	**NSYTC6CRN**	**NSYLC7**
☐ 7 mm	**NSYTC7CRN**	**NSYLC7**
☐ 8 mm	**NSYTC8CRN**	**NSYLC8**
△ 6.5 mm	**NSYTT6CRN**	**NSYLT8**
△ 7 mm	**NSYTT7CRN**	**NSYLT8**
△ 8 mm	**NSYTT8CRN**	**NSYLT8**
Screw driver lock	**NSYAEDLSD**	

*Delivered with 1 metal key

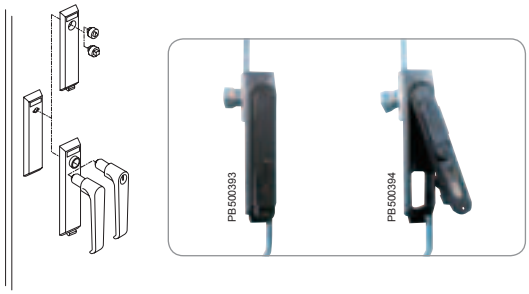
Complete manual handle lock, operated with key 405	**NSYCL405CRN**	
Complete manual handle lock, operated with key 220	**NSYCL220CRN**	
Complete metal lock, operated with key 405	**NSYCLL405CRN**	
Stainless-steel padlock	**NSYKPLM**	
Padlock	**NSYCBCCRN**	

NSYKPLM. Ø 8 mm.



NSYKPLM padlock assembly.

Locking accessories



Lock for Spacial CRNG enclosure (three-point lock)

Standard 5 mm double-bar lock for CRNG models.

- Operation using:

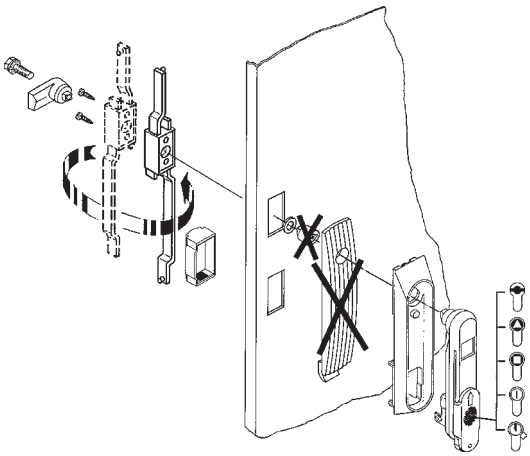
– Key **NSYLDB5**.

(according to DIN 43668) .

Transformation of the standard lock to standarised variations in enclosures with three-point locks.

Type of insert	Insert reference	Key reference*
☐ 6 mm square	**NSYTC6ML**	**NSYLC7**
☐ 7 mm square	**NSYTC7ML**	**NSYLC7**
☐ 8 mm square	**NSYTC8ML**	**NSYLC8**
△ 7 mm side triangle	**NSYTT7ML**	**NSYLT8**
△ 8 mm side triangle	**NSYTT8ML**	**NSYLT8**
Handle lock	**NSYTSML**	
Handle lock operated using key 405 (included)	**NSYTL405SML**	

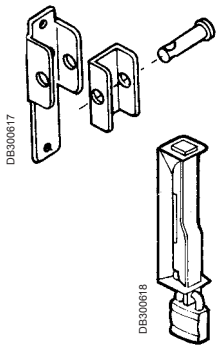
*Insert without keys (unless indicated).



Transformation of the standard lock to a retractable three-point lock with various types of insterts.

Type of insert	Insert reference	Key reference*
Key operated bar lock	**NSYTEDB5ML**	**NSYLDB5**
☐ 7 mm square lock	**NSYTEC7ML**	**NSYLC7**
☐ 8 mm square lock	**NSYTEC8ML**	**NSYLC8**
△ 7 mm side triangle lock	**NSYTET7ML**	**NSYLT8**
△ 8 mm side triangle lock	**NSYTET8ML**	**NSYLT8**
Lock operated with key type 405	**NSYTEL405ML**	
Lock operated with reinforced key	**NSYTERML**	

*Insert without keys (unless indicated).

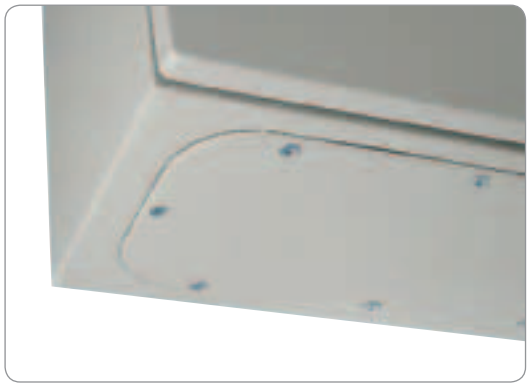


Padlocking accessories

- Padlocking system, ref. **NSYBCPL**, positioned around the long rectangular escutcheon of the enclosures, to block access to the lock; for a Ø 9 mm padlock.

- Padlocking system, ref. **NSYBCME**, to block access to the retractable handle, for a Ø 9 mm padlock.

Cable management
Cable entries for Spacial CRN


PB500395

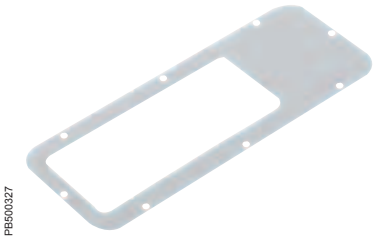
Standard cable-gland plate

- Made from steel painted RAL 7035. Included as a standard with the Spacial CRN enclosure.
- Fixing with screws.

The cable-gland plate for Spacial CRN is fixed by screws and guarantees water and dust tightness.
- It is flattened with the body.
- It is delivered with a separate seal: it allows easy cut-outs with no risk of damaging the seal and can be easily repainted.

Width	Depth	To be coupled with entry	References
200	150	0	**NSYTLCRNO**
250	150/200	A	**NSYTLCRNA**
300	200	B	**NSYTLCRNB**
400/500	150	B	**NSYTLCRNB**
400	200/250	C	**NSYTLCRNC**
500/600	200/250/300	D	**NSYTLCRND**
800	200/250/300	E*	**NSYTLCRNC**

* Enclosure with 2 entries.


PB500327

Cable-gland plate with FL cut-outs

- Made from steel painted with RAL 7035. Includes cut-outs for FL13 and FL21 according to the dimension.
- Fixing with screws.

Width	Depth	To be coupled with entry	References
250	150/200	A	**NSYTFL13CRNA**
300	200	B	**NSYTFL13CRNB**
400/500	150	B	**NSYTFL13CRNB**
400	200/250	C	**NSYTFL21CRNC**
500/600	200/250/300	D	**NSYTFL21CRND**
800	200/250/300	E*	**NSYTFL21CRNC**

* Enclosure with 2 entries

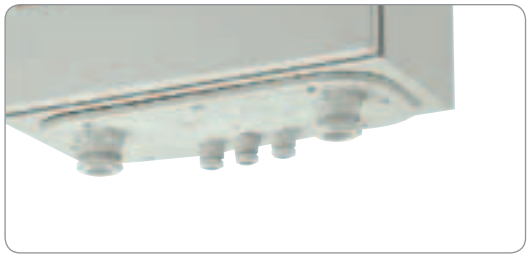
See also the accessories

PB500605

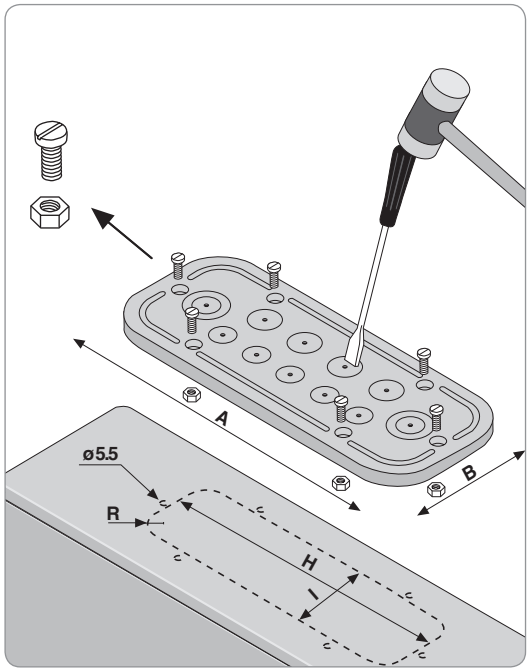
FL21-type membranes page **426**

Cable management
Cable entries for Spacial CRN

PB500396


PB500397

Example of use.



DB300594EN

Insulated cable-gland plate

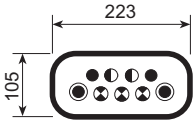
Made from self-extinguishing ABS with 30% fibreglass material. Colour RAL 7035.
- Pre-marked holes with diameter Pg for coupling of cable glands, membrane glands, tubes, etc.
- With a polyurethane sealing gasket.
- Excellent thermal resistance.
- Pre-marked holes for cable entrie plates.

Width	Depth	To be coupled with entry	Fig.	References
250	150/200	A	1	**NSYTSACRNA**
300	200	B	2	**NSYTSACRNB**
400/500	150	B	3	**NSYTSACRNB**
400	200/250	C	3	**NSYTSACRNC**
500/600	200/250/300	D	4	**NSYTSACRND**
800	200/250/300	E*	3	**NSYTSACRNC**

See cable entry on page **428**.

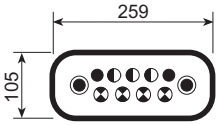
* For type E cable entry, use two **NSYTSACRNC**.

Fig. 1



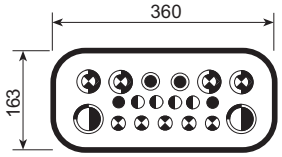
2 Pg 11
2 Pg 13.5
3 Pg 16
2 Pg 21 / 11

Fig. 2



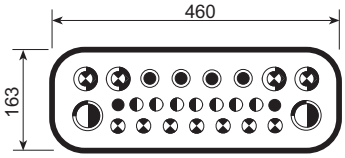
2 Pg 11
3 Pg 13.5
4 Pg 16
2 Pg 21 / 11

Fig. 3



2 Pg 11
4 Pg 13.5
5 Pg 16
2 Pg 21 / 11
4 Pg 29 / 16
2 Pg 36 / 29

Fig. 4

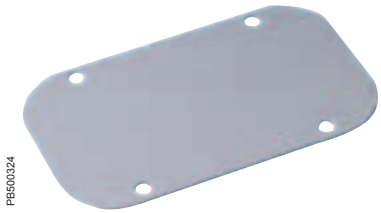


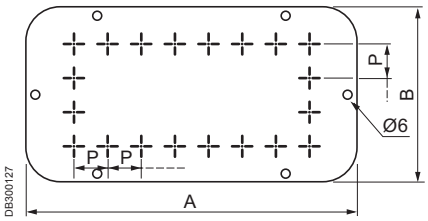
DB300126EN

2 Pg 11
7 Pg 13.5
7 Pg 16
4 Pg 21 / 11
4 Pg 29 / 16
2 Pg 36 / 29

Pg 11 (18.6 mm)
Pg 13.5 (20.4 mm)
Pg 16 (22.5 mm)
Pg 21 / 11 (28.3 / 18.6 mm)
Pg 29 / 16 (37 / 22.5 mm)
Pg 36 / 29 (47 / 37 mm)

Cable management
Cable entries for Spacial CRNG enclosures



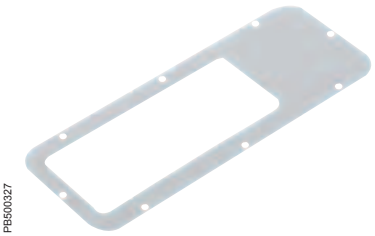


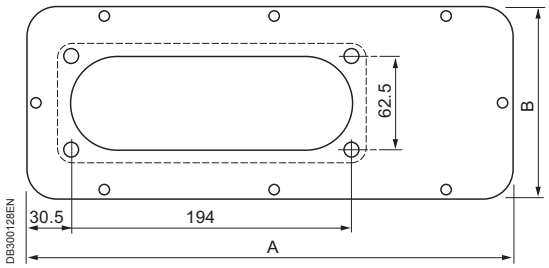
Standard cable entries

- Made from steel painted with textured RAL 7035 epoxy-polyester resin.
- Standard supply with the Spacial CRNG enclosures.
- Surface with a grid pattern in 25 mm intervals to facilitate perforation. Fixing with screws.

Dimensions A x B	Width	Depth	To be coupled with entry	References
345 x 130	800	300/400	H*	**NSYTLD**
445 x 130	1000/1200	300/400	H*	**NSYTLE**
495 x 220	600	400	G	**NSYTLG**

* 2 entries.





Cable entries for membrane glands

- Made from steel painted with textured RAL 7035 epoxy-polyester resin.
- The membranes are built to accommodate water and dust tight cable entries in insulated material (flame classification V0), guaranteeing IP 65 (to be ordered separately).
- Fixing with screws.

Dimensions A x B	To be coupled with entry	Width	Depth	References**
345 x 130	H*	800	300/400	**NSYTLDFL**
445 x 130	H*	1000/1200	300/400	**NSYTLEFL**
495 x 220	G	600	400	**NSYTLG2FL**

* 2 entries.

** FL21 cut-outs.

Door accessories

PB500384

KPLM

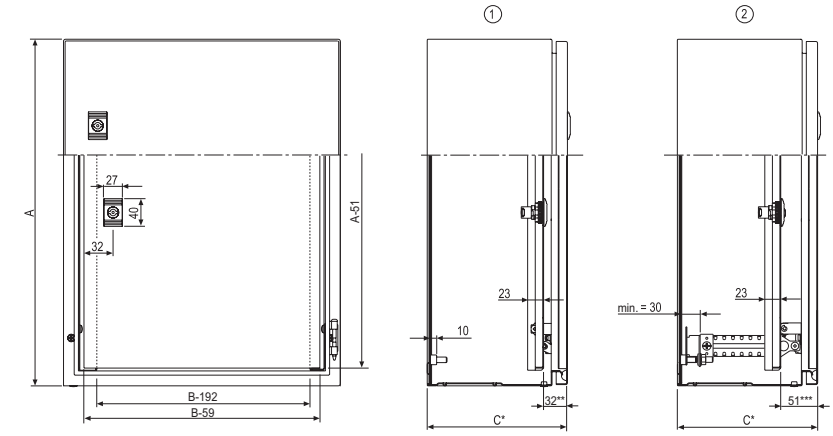
Internal door

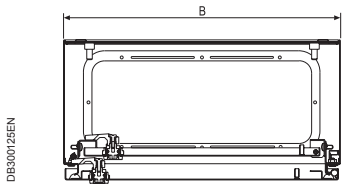
- Sheet-steel door, RAL 7035 grey colour.
- 3-mm double-bar lock.
- The internal door can be mounted either on the front face of the enclosure or on step slides (not supplied as standard).
- Maximum load: 30 kg/m².
- To mount an inner door and a mounting plate at the same time on the step slides, is possible as standard.
- Not compatible with mounting with door stop and door contact. Consult us.

Dimensions	References
H 400 x W 300 mm	**NSYPIN43**
H 500 x W 400 mm	**NSYPIN54**
H 600 x W 400 mm	**NSYPIN64**
H 700 x W 500 mm	**NSYPIN75**
H 800 x W 600 mm	**NSYPIN86***
H 1000 x W 600 mm	**NSYPIN106***
H 1000 x W 800 mm	**NSYPIN108***
H 1200 x W 600 mm	**NSYPIN126**
H 1200 x W 800 mm	**NSYPIN128***

*Equipped with welded vertical profiles in order to facilitate cable management.

Dimensions





DB300125EN

① NSYPIN... internal door fixed directly to the enclosure.

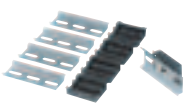
② NSYPIN... internal door fixed to the adjustable NSYSDCR support. In this case, both the internal door and the mounting plate may be depth adjustable.

*Dimension C according to general table on page **70**.
**Except H 1200 x W 600: 38,3.
***Except H 1200 x W 600: 59 and H 1200 x W 800: 52.

See also the accessories

PB500954

Cable-duct support diameter 22 see page **447**


PB501155

DIN rail support see page **365**

Steel floor-standing enclosures

Steel floor-standing enclosures
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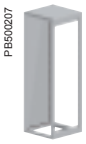
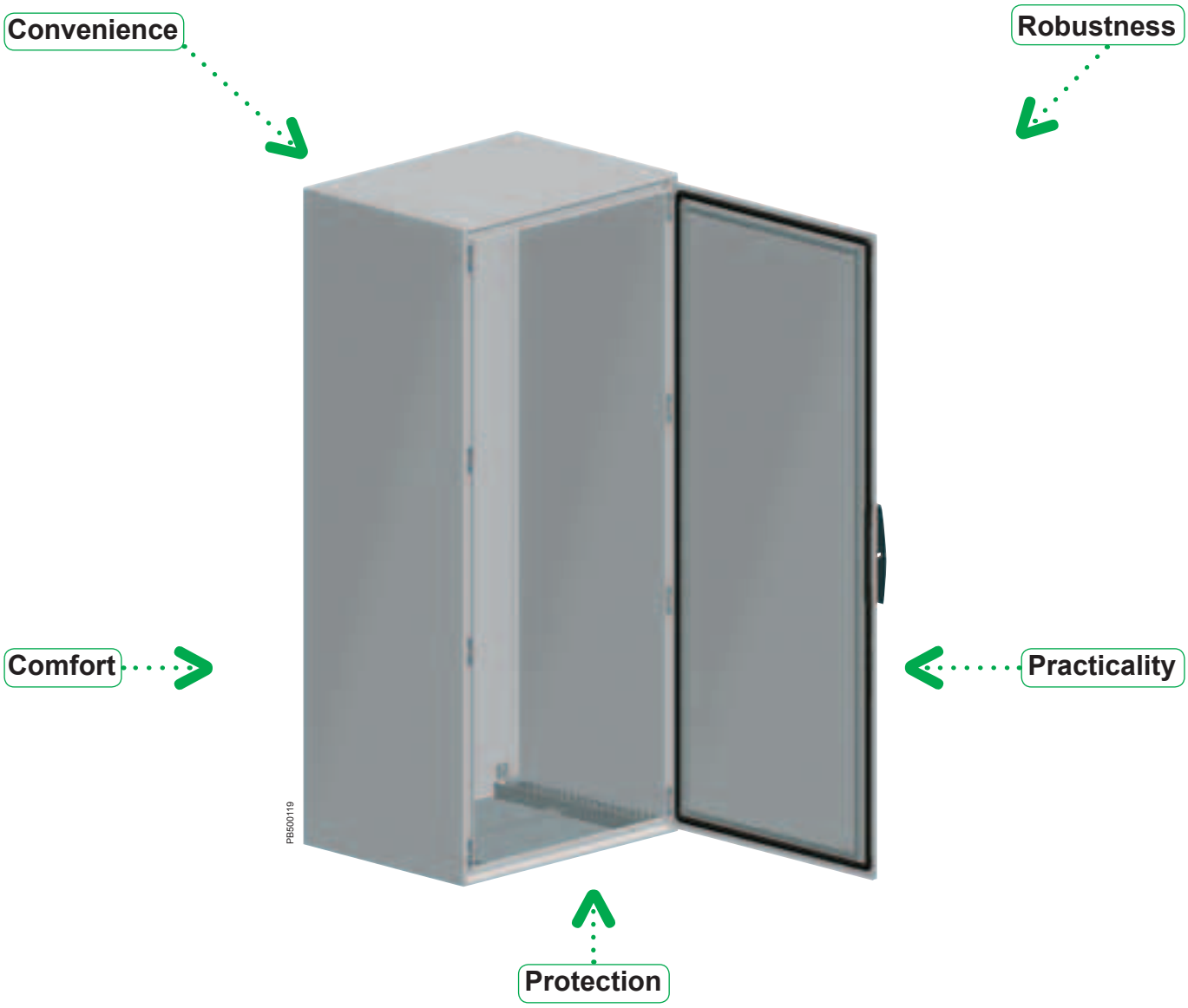


Compact metal enclosures
Overview



Robustness:

Body made as a single piece with welded rear panel.
Front part forming a rigid frame with welded corners.

Compact metal enclosures
Overview

Practicality:

Two door rails, which can be height-adjustable and used for fixing cables.
The adaptation profile installed in the front of the enclosure and the universal 40-mm cross rail (1 row) in the rear provide the same fixing points as the suitable enclosure.

PB500467

PB500468

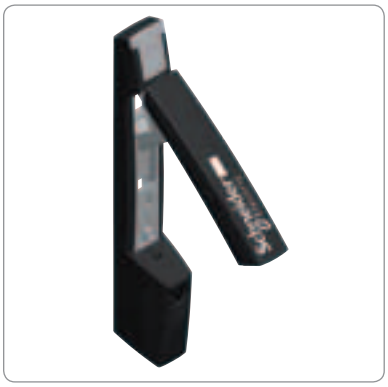
Protection:

IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding.Double-door enclosures with inner lock on the left door.

PB500469

Comfort:

Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key. Easily interchangeable insert with one click.


PB500470

PB500471

Convenience:

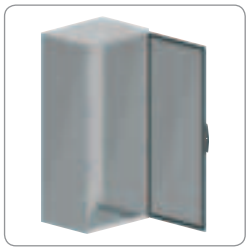
The customised product meets specific needs in terms of cut-outs, colours and accessory installation.

PB500472

Compact metal enclosures
Overview

Compact metal enclosures

IP55 enclosure, IK10 for plain door and IK08 for transparent door.
The body is made from sheet steel, welded rear panel, and the front forms a rigid frame with welded corners.
Doors made from folded and welded steel, 120º opening, hinges with captive pin made from zamak and handle lock with 5-mm double-bar insert.
Assembled enclosure with plain or transparent door door, painted with epoxy-polyester resin, textured RAL 7035 grey, with or without galvanised-steel mounting plate.



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Compact metal enclosures
Overview

Accessories for 19” racks

19” racks

PB500473

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634

Customised compact metal enclosures

All RAL and NF colours. All surface treatments. All cut-outs made by high-precision laser, with no burrs. Accessory installation in plant.

PB500472

Compact metal enclosures
Overview

Main accessories

Locks and lock inserts	Lifting systems	Plinths
PB500471	PB500474	PB500330
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Inner door	Door accessories
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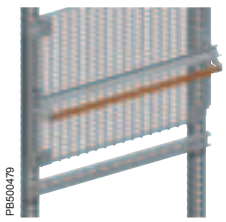
Mounting plate	Adaptation profiles	Rails
PB500477	PB500478	 PB500479
Page	Page	Page
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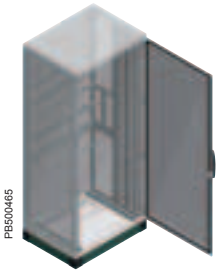
Cross rails
 PB500465
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Compact metal enclosures
Overview

PB500480

PB500481

PB500471

Front door and rear panel, with or without galvanised mounting plate IP55

Basic composition

- Structure: body made from sheet steel, welded rear panel, with the front forming a rigid frame with welded corners.
- Front door:
  – Plain door with reinforcement frame.
  – Or, transparent Securit® glass door.
- The double doors are overlapping, with system for fixing the left door.
- Welded rear panel.
- Standard locking system with handle and 5-mm double-bar insert.
- 4 support brackets for the mounting plate.
- Cable-gland plate in 2 parts.
- Supply with or without galvanised mounting plate depending on the reference.
- Options:
  – Cross rails.
  – Individual plinths with heights of 100 and 200 mm.

Certifications

- BV, DNV, UL* and CUL.
  *1 Door: 1, 2, 3, 3R, 4, 5, 12, 12K and 13
  *2 Doors: 1, 12, 12K

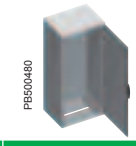
Easy installation

- The **Spacial SM** compact metal enclosure is made up of a compact body, welded rear panel and front part forming a rigid frame with its corners welded. 4 deep supports, 2 at the top and 2 at the bottom, for adjusting the equipment fixing bracket with a pitch of 25 mm.
- Sheet-steel door, painted with epoxy-polyester resin in textured RAL7035 grey. Reinforcement frame made up of two perforated uprights with a pitch of 25 mm and two door rails (height-adjustable), which can be used for fixing cables. Vertical profiles for the enclosures with a height of 1200 mm.
- 4 zamak hinges and 4 locking points for the enclosures, with heights from 1200 to 2000 mm.
- Cable-gland plate in two parts with sealing gasket cross-section of 3 x 10 mm:
- A broad range of accessories offered for the production of:
  – Plates for automatisms.
  – Modular distribution system.
  – 19" racks.
  – etc.
- Degree of protection IP55 according to IEC 60529.
- Resistance to mechanical impacts: IK10 according to IEC 62262 (IK08 for the transparent doors).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

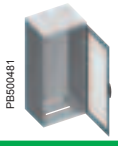
Locking system

- New design, modern appearance, ergonomic, sturdy, complying with numerous specifications:
  – Combination keys.
  – Shape inserts.
  – Push button.
- Optional:
  – Handle lock for versions DIN, KABA, ASSA.
  – Handle lock for 2 inserts, "AND" or "OR" combination.
  – Padlock locking.
  – CNOMO kit.

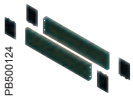
Compact metal enclosures
Selection guide


PB500480

PB500119


PB500481

PB500123


PB500124

Nominal dimensions (mm)			No. of doors	Plain door		Transparent door	Plinth		
							Height 100 (mm)		
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	
1200	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	
1200	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	
1400	600	400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	
1400	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	
1400	800	400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	
1400	1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	
1400	1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	
1600	600	400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	
1600	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	
1600	800	400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	
1600	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	
1600	1000	400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	
1600	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	
1600	1200	400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	
1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	
1800	600	400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	
1800	600	500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	
1800	800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	
1800	800	400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	
1800	800	500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	
1800	800	600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	
1800	1000	400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	
1800	1000	400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	
1800	1000	500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	
1800	1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	
1800	1200	500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	
1800	1600	400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	
1800	1600	500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	
2000	600	400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	
2000	600	500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	
2000	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	
2000	800	400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	
2000	800	500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	
2000	800	600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	
2000	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	
2000	1000	500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	
2000	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	
2000	1200	500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	
2000	1200	600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	
2000	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	
2000	1600	500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	
2000	1600	600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	

Lifting eyebolts
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180° hinge
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Locks and lock inserts
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Document pocket
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Door cross rail
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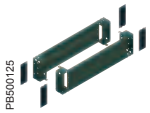
PB500467

Compact metal enclosures
Selection guide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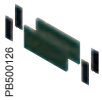
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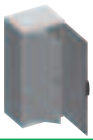
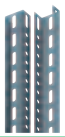

PB500475

PB500477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PB500483

PB500473

Plinth		Inner door	Mounting plate	Standard vertical uprights	Technical vertical uprights	Off-centre 19" swing rack	Centred 19" swing rack
Height 200 (mm)							
Front kit (corners + front panels)	Side panels, 4 u.						
NSYSPF8200	NSYSPS3200	-	NSYMP128	-	NSYTVR12	-	-
NSYSPF10200	NSYSPS3200	-	NSYMP1210	-	NSYTVR12	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1212	-	NSYTVR12	-	-
NSYSPF6200	NSYSPS3200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPF6200	NSYSPS4200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPF8200	NSYSPS3200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
NSYSPF8200	NSYSPS4200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
NSYSPF10200	NSYSPS4200	-	NSYMP1410	-	NSYTVR14	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1412	-	NSYTVR14	-	-
NSYSPF6200	NSYSPS3200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPF6200	NSYSPS4200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPF8200	NSYSPS3200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
NSYSPF8200	NSYSPS4200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
NSYSPF10200	NSYSPS3200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPF10200	NSYSPS4200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPF12200	NSYSPS3200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPF6200	NSYSPS3200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS4200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS5200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF8200	NSYSPS3200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS4200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS5200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS6200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF10200	NSYSPS5200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPF12200	NSYSPS5200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPF16200	NSYSPS4200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPF16200	NSYSPS5200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS3200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF6200	NSYSPS4200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF6200	NSYSPS5200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF8200	NSYSPS3200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS4200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS5200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS6200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF10200	NSYSPS4200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPF10200	NSYSPS5200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS5200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS6200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS4200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS5200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS6200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

Cross rails
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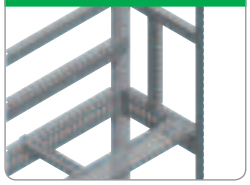
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Lighting
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Door switch
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Cabling accessories
page 439

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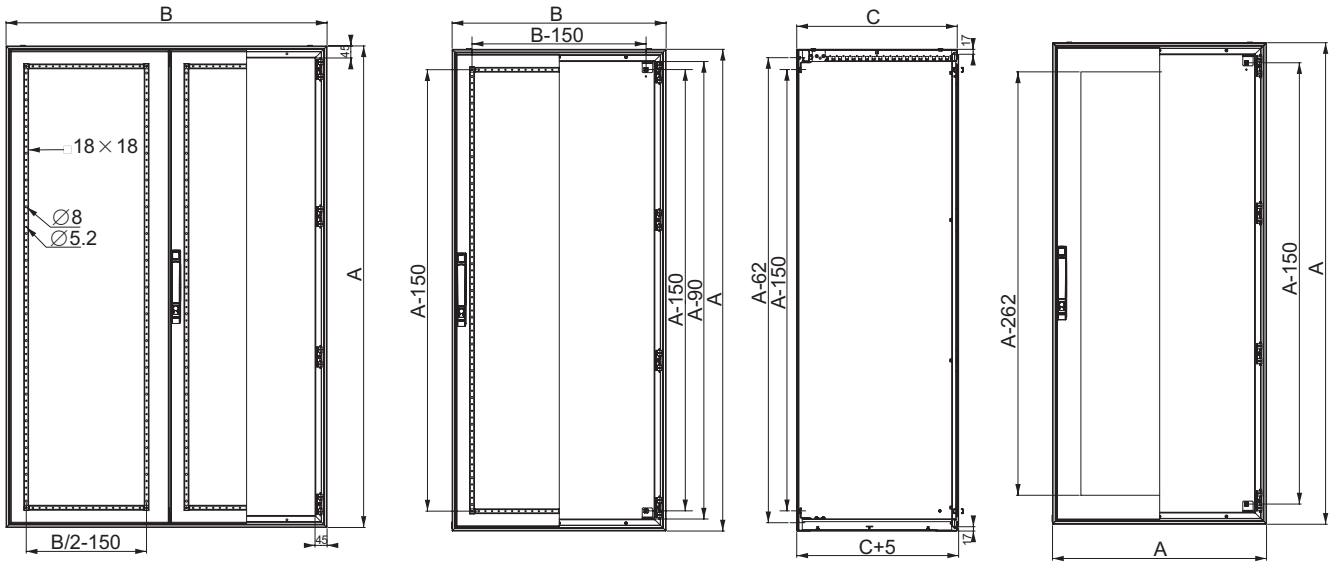
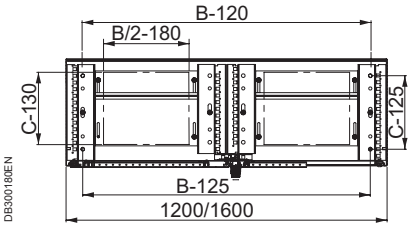
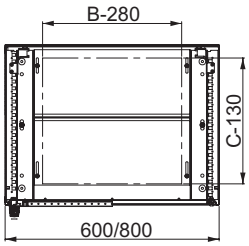
Compact metal enclosures
Dimensions

Dimensions

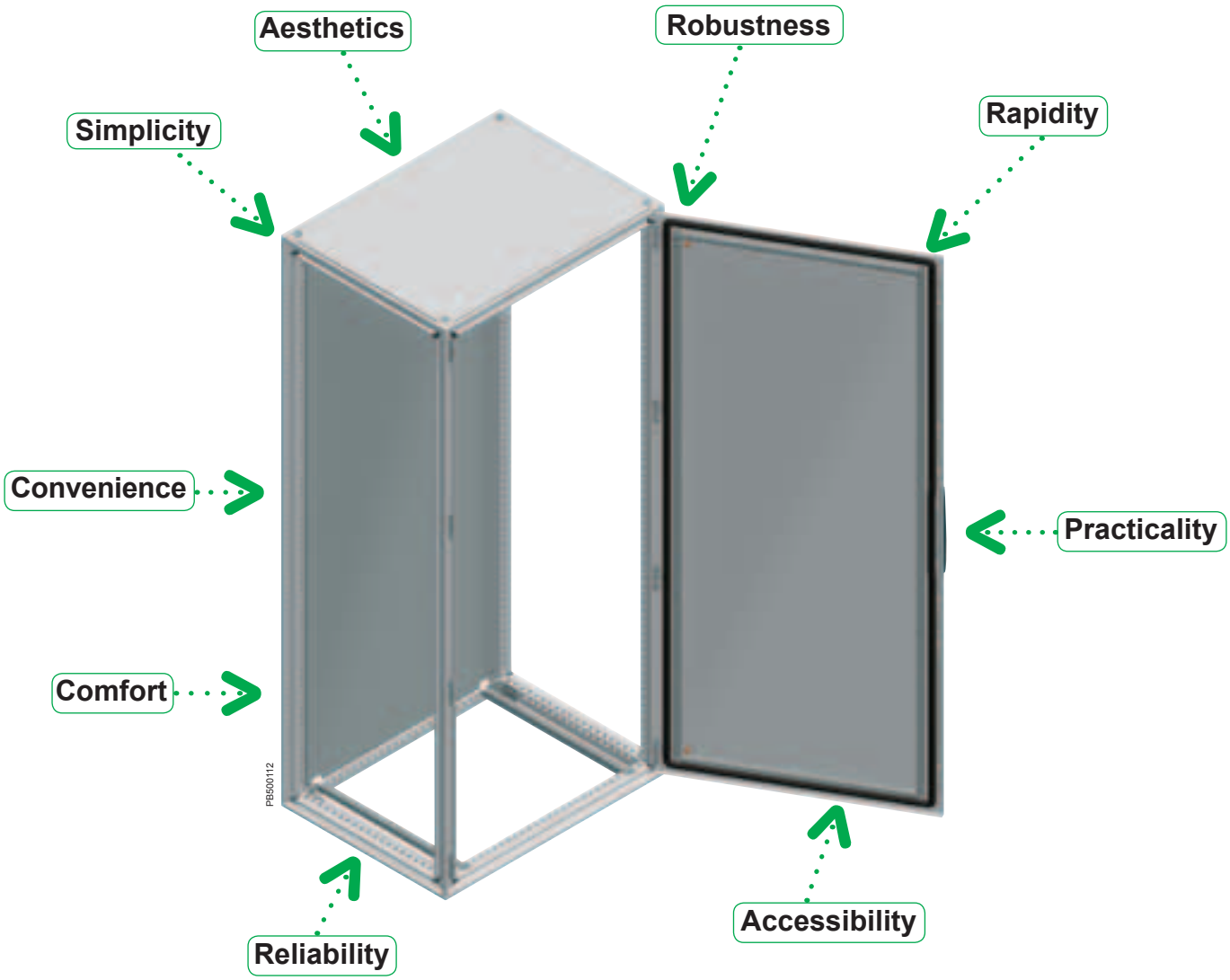






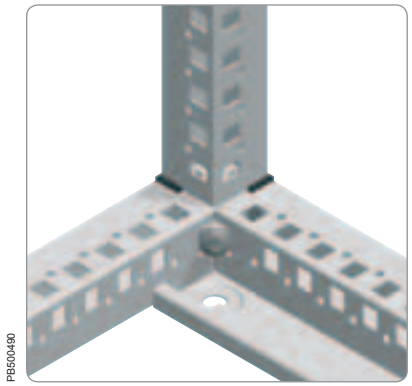
Models with a width of 1200 mm
without top/bottom adjustment rails

Suitable metal enclosures
Overview



Robustness:

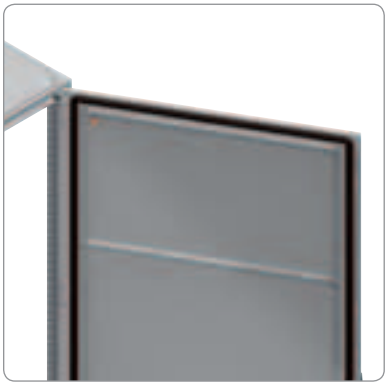
Structure formed from a single 1.5-mm galvanised-steel section, with a high moment of inertia.
Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel.
Panels built into the structure.



Suitable metal enclosures
Overview

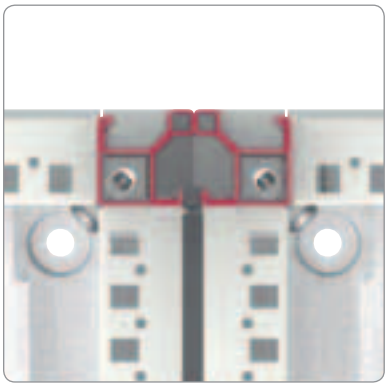
Practicality:

Two door cross rails, which can be height-adjustable and used for fixing cables.


PB500491

Reliability:

The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.
The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that guarantees the sealing.


PB500492

Comfort:

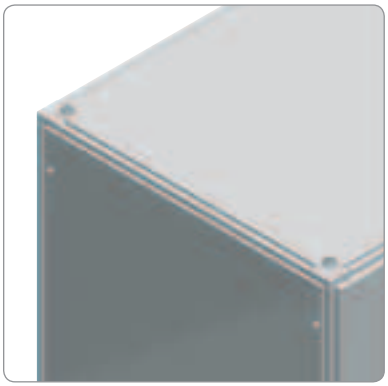
Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
Panels with captive screws for easier assembly and dismantling.

PB500471

PB500493

Aesthetics:

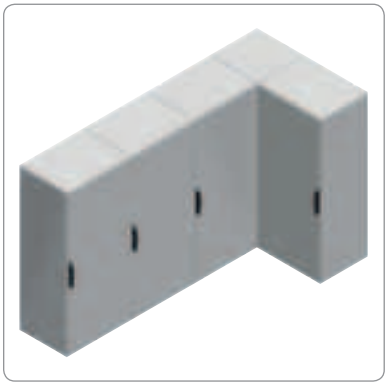
The built-in panels, enclosure suites and handle with new design give the enclosure a new appearance.


PB500494

Suitable metal enclosures
Overview

Simplicity:

The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.


PB500495

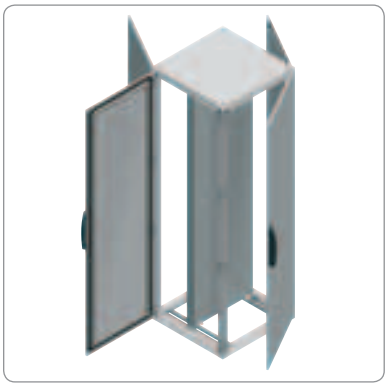
Convenience:

The customised product meets specific needs in terms of dimensions, cut-outs, colours and accessory installation.

PB500496

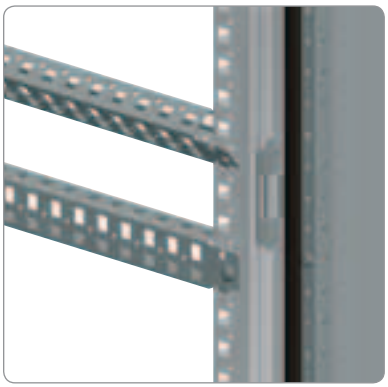
Accessibility:

The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.


PB500497

Rapidity:

The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts.
Clip-on quick-fixing cross rails, fixed with self-tapping screws.


PB500498

Suitable metal enclosures
Overview

Suitable metal enclosures, assembled and as kits

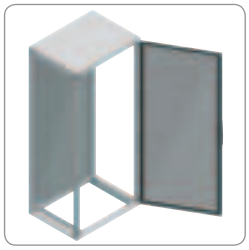
Enclosures compliant with international standard IEC 62208 for empty enclosures for low-voltage switchgear and controlgear assemblies.
IP55 enclosure, IK10 for plain door and IK08 for transparent door.
The structure is made from profiled and laser-welded galvanised steel, with vertical and horizontal cut-outs with a pitch of 25 mm.
Doors made from folded and welded steel, 120º opening, hinges with captive pin made from zamak and handle lock with 5-mm double-bar insert.
To guarantee the continuity of the protection circuit, according to standard IEC 62208, it is necessary to install a protection conductor.

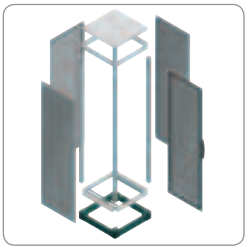
Suitable metal enclosures

Assembled enclosure with plain or transparent front door and with rear panel, painted with epoxy-polyester resin, textured RAL 7035 grey, with or without galvanised-steel mounting plate.

Suitable metal enclosure kits

All the components that make up the suitable metal enclosure exist as separate references, offering multiple possibilities.


PB500112
Assembled supply


PB500499
Supply in kit form

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Compartmentalised enclosures and PC racks

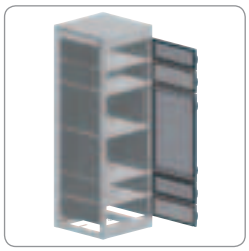
Roof and panels fixed from the inside (only for PC racks).
Partial front doors, mounted with zamak hinges, 3-mm double-bar lock.
Degree of protection IP40 with open keyboard tray.

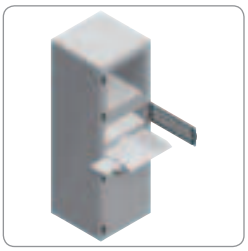
Compartmentalised suitable metal enclosures

Compartmentalised enclosure separating the various working zones, limiting access to them, painted with epoxy-polyester resin, textured RAL 7035 grey.

PC racks

The PC rack is designed to protect computer equipment in an industrial environment, painted with epoxy-polyester resin, textured RAL 7035 grey.


PB500500
Compartmentalised enclosure


PB500501
PC rack

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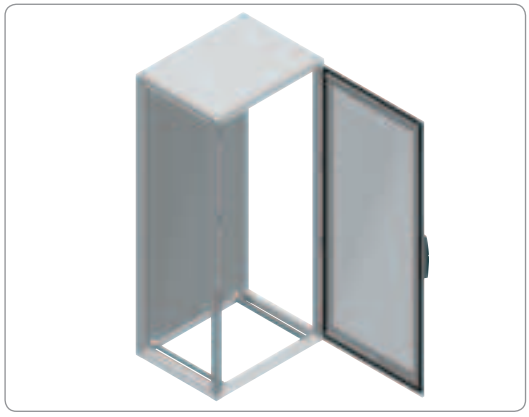
Suitable metal enclosures
Overview

Electronic application

Transparent front door, plain rear door and side panels fixed from the outside. Painted with epoxy-polyester resin, textured RAL 7035 grey. In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks.

Electronic application, for 19” racks



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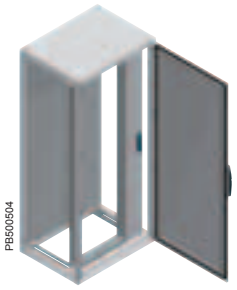
Accessories for 19” racks

Fixed 19" racks	Swing 19" racks
PB500503	 PB500504

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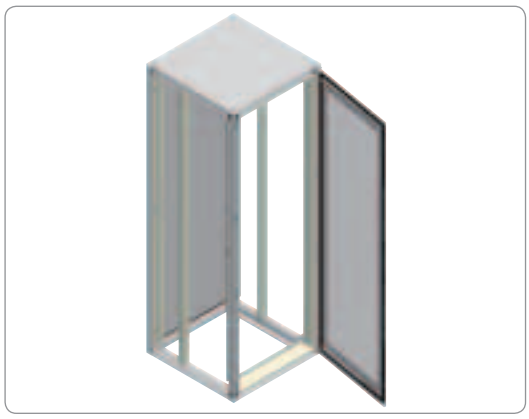

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Prisma Plus application

Assembled or dismantled enclosures with a height of 2000 mm and 3 depths (500, 600 and 800 mm). Adaptation uprights allowing the installation of the components of the Prisma Plus functional frames.

Suitable metal enclosures
Overview

PB500496

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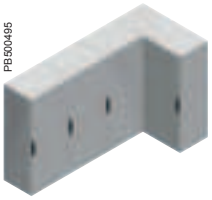
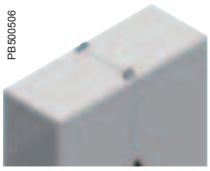
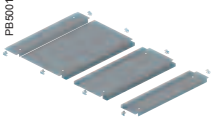
Customised suitable metal enclosures

All RAL and NF colours. All surface treatments. All cut-outs made by high-precision laser, with no burrs or deformations.
Accessory installation in plant.

Suitable metal enclosures
Overview

Main accessories

Side panels	Plinth	Enclosure suites	Lifting systems	Cable-entry plates
PB500114	PB500330	 PB500495	 PB500506	 PB500117
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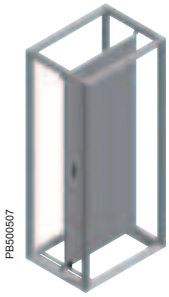
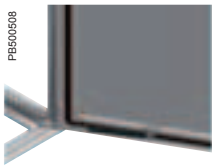
Inner door	Door accessories	Locks and lock inserts
 PB500507	 PB500508	PB500471
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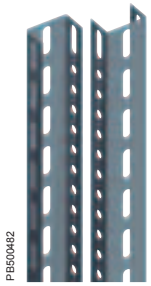
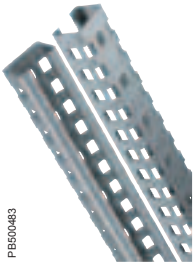
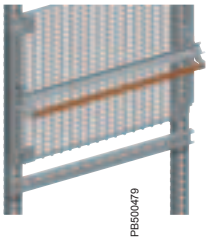
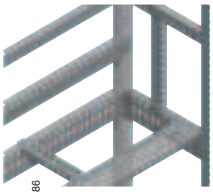
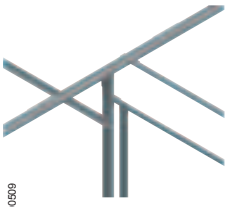
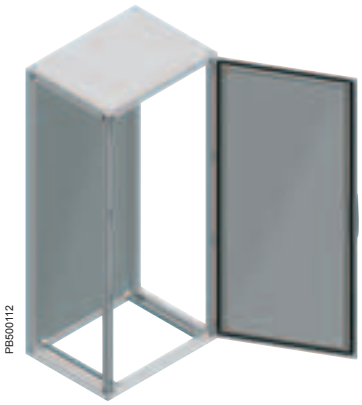
160	162	164

Mounting plate	Standard uprights	Technical uprights	Rails	Cross rails	Rail connectors
PB500477	 PB500482	 PB500483	 PB500479	 PB500486	 PB500509
Page	Page	Page	Page	Page	Page
333	345	344	365	352	374

Suitable metal enclosures
Overview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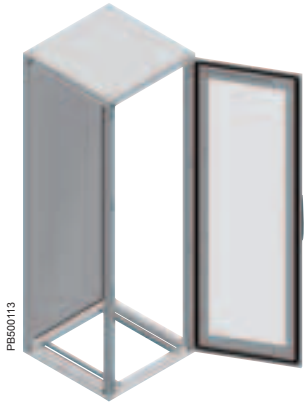

PB500113

PB500471

Front door and rear panel, with or without IP55 galvanised mounting plate

Basic composition

- Structure: Top and bottom frame, vertical uprights.
- Front door, two versions:
– Plain door with reinforcement frame.
– Transparent Securit® glass door.
- The double doors are overlapping, with system for fixing the left door.
- Rear panel screwed on with captive screws.
- Removable roof.
- Standard locking system with handle and 5-mm double-bar insert.
- 4 support brackets for the mounting plate.
- Sliding rail for the mounting plate.
- Supply with or without galvanised mounting plate depending on the reference.
- Further options:
– Cross rails.
– Individual and set plinths with heights of 100 and 200 mm.
– Cable-gland plates.

Certifications

– BV, DNV, UL and CUL*.
*1 Door.- 1, 12, 12K
*2 Doors.- 1, 12, 12K

Easy installation

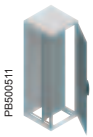
- The **Spacial SF** suitable metal enclosure is made up of: 4 uprights and 2 frames, top and bottom. Thanks to its use of a single, laser-welded, galvanised-steel structure, the enclosure has great robustness. The structure has cut-outs with a pitch of 25 mm for fixing accessories, using the same type of screw throughout the entire structure.
- The structure of the enclosure allows the integration of panels, thus obtaining the same nominal length (or size) with or without panels.
- Allows several enclosures to be coupled with full versatility. Offers the possibility of creating any desired shape of coupled enclosures, plus the possibility of installing doors on any side of the enclosure. The coupling surface between enclosures offers a double protective barrier against the entry of water and/or dust.
- The panels are made up of:
– Sheet-steel door, painted with epoxy-polyester resin, textured RAL 7035 grey,
– Sheet-steel rear and side panels painted with epoxy-polyester resin, textured RAL 7035 grey, double folded to increase the rigidity and fixed with captive screws that simplify assembly and dismantling.
– Individual plinths or plinths for sets, painted with epoxy-polyester resin, RAL 7022 grey, greatly simplifying cable management.
- A broad range of accessories offered for the production of:
– Plates for automatisms.
– Modular distribution system.
– 19” racks.
– etc.
- Degree of protection IP55 according to IEC 60529.
- Resistance to mechanical impacts: IK10 according to IEC 62262 (IK08 for the transparent doors).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Locking system

- New design, modern appearance, ergonomic, robust, complying with numerous specifications:
– Combination keys.
– Shape inserts.
– Push button.
- Optional:
– Handle lock, lock for versions DIN, KABA, ASSA.
– Handle lock for 2 inserts, "AND" or "OR" combination.
– Padlock locking.
– CNOMO kit.

Suitable metal enclosures

Assembled supply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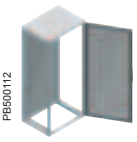
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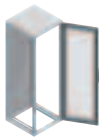
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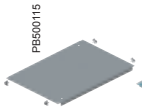
PB500114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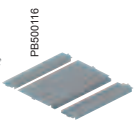
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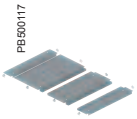
PB500117

Nominal dimensions (mm)			No. of doors	Plain door		Transparent door	Side panels	Cable-entry plate		
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
1200	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
1400	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
1600	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
1800	400	500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
1800	400	600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-
1800	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
1800	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
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1800	1000	500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
1800	1000	600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
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1800	1200	500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
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2000	300	600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
2000	300	800	1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-
2000	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
2000	400	500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
2000	400	600	1	-	NSYSF20460	-	NSY2SP206	-	NSYEC461	-
2000	400	800	1	-	NSYSF20480	-	NSY2SP208	-	NSYEC481	-
2000	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
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2000	600	800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
2000	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
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2000	1000	500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
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2200	600	800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

Enclosure coupling kit
page 125

PB500513

Plinth
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PB500330

Lifting eyebolts
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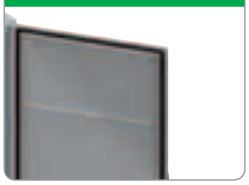
PB500514

Lifting brackets
page 148

PB500506

Door cross rail
page 439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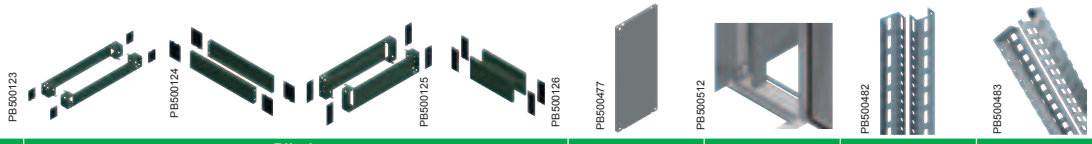
Suitable metal enclosures

Assembled supply



Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Standard vertical uprights	Technical vertical uprights
			Height 100 (mm)		Height 200 (mm)					
Height (A)	Width (B)	Depth (C)	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
1200	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
1200	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
1200	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
1400	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
1600	600	800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
1600	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
1600	800	800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
1800	400	500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
1800	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
1800	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
1800	600	500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
1800	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
1800	600	800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
1800	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
1800	800	500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
1800	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
1800	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
1800	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
1800	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
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1800	1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
1800	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
1800	1200	500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
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2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
2000	300	600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
2000	300	800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYVTR20
2000	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
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2000	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
2000	400	800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
2000	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
2000	600	500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
2000	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
2000	600	800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
2000	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
2000	800	500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
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2000	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
2000	800	800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
2000	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
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2200	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
2200	1200	800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

Document pocket
page 163

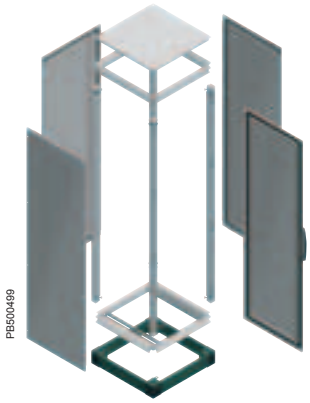
Door switch
page 468

Locks and lock inserts
page 164

Cross rails
page 352

Cable management
page 439

Suitable metal enclosures
Supplied as a kit



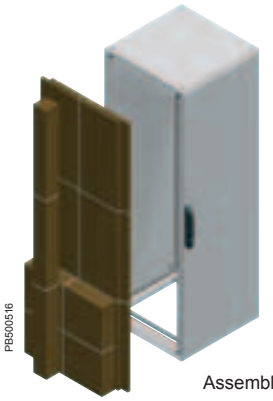
Basic composition

For the construction of a suitable metal enclosure, the following must be ordered separately:

- Galvanised-steel structure, with a single laser-welded profile:
  – Bottom and top frame with roof.
  – Set of 4 vertical uprights.
- Sheet-steel panels, painted with epoxy-polyester resin, textured RAL7035 grey:
  – Rear panel to be screwed on from the outside.
  – Plain door, single or double, with hinges, catches for the locking bars and reinforcement frame, made up of two vertical uprights and two height-adjustable door cross rails.
  – Transparent Securit® glass door, with hinges and catches for the locking bars.
- Further options:
- Composition accessories such as:
  – Plinths with heights of 100 and 200 mm.
  – Cable-entry plate, plain, with 1 entry and 2 entries.
  – Lifting accessories, door equipment, enclosure suites.
  – Lighting accessories.
  – Ventilation systems, etc.
- Mounting accessories.
- Cable management accessories.
- Power distribution accessories.
- Modular distribution accessories.
- Lighting accessories.
- Aeration, ventilation and air-conditioning systems.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Certifications

- BV, DNV, UL*, CUL.
  *1 Door.- 1, 12, 12K
  *2 Doors.- 1, 12, 12K



Assembled supply

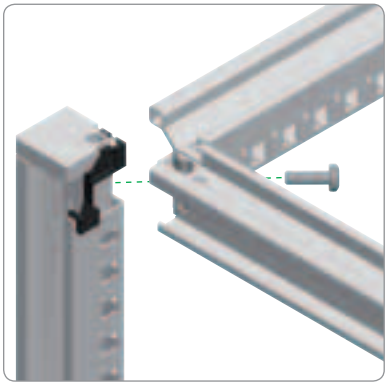
Supply in kit form

Advantages of the kit formula

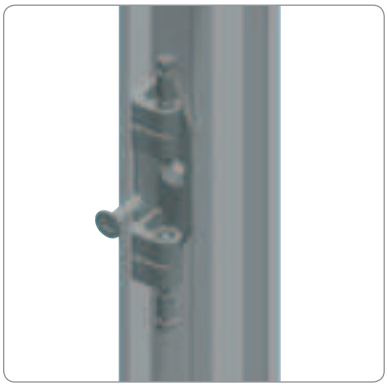
- Very short structure assembly time: only 15 minutes, with the attachment of 8 screws.
- Reduction of the required working surface.
- Reduction of the volume required for transport and storage.
- Possibility of working on the panels and assembling the enclosure directly before cabling.
- Possibility of having spare panels.
- Great freedom for creating your own enclosure, combining all the available elements.

Suitable metal enclosures
Supplied as a kit

Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.

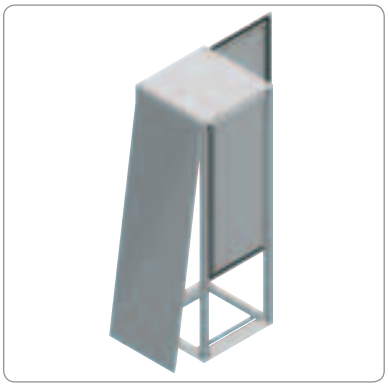

PB500519

Fixing of the hinges and the catches of the locking bar on the vertical uprights. Door installation inserting the captive pins of the hinge in their housing in the door.


PB500520

PB500521

Suspension of the rear panel using a self-centring piece to facilitate screwing.

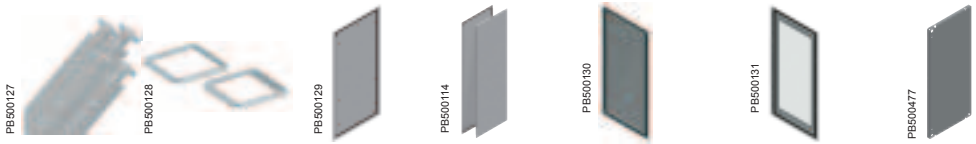

PB500522

Screwing the panel on using captive screws, screwed directly onto the structure.

PB500493

Suitable metal enclosures

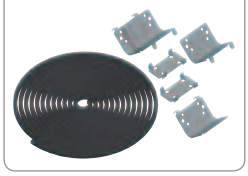
Supplied as a kit



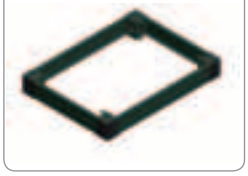
Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)		Painted with epoxy-polyester resin, textured RAL 7035						
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	-
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	-
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	-
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	-
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

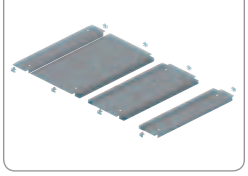
Enclosure coupling kit
page 125


PB500513

Plinth
page 129


PB500330

Cable-gland plate
page 142 and 154


PB500117

Lifting eyebolts
page 148

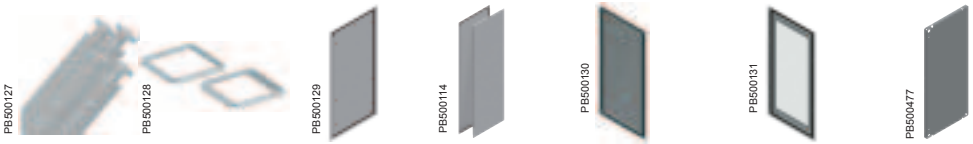
PB500514

Door accessories
page 439

PB500491

Suitable metal enclosures

Supplied as a kit



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)		Painted with epoxy-polyester resin, textured RAL 7035						
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	-
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	-
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	-
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	-
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
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2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
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2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
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2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	-
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	-
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	-
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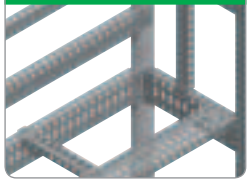
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

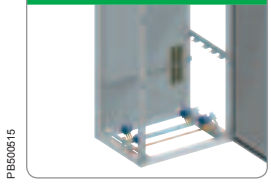
(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Cross rails page 352



Trays page 361

Cable management page 439

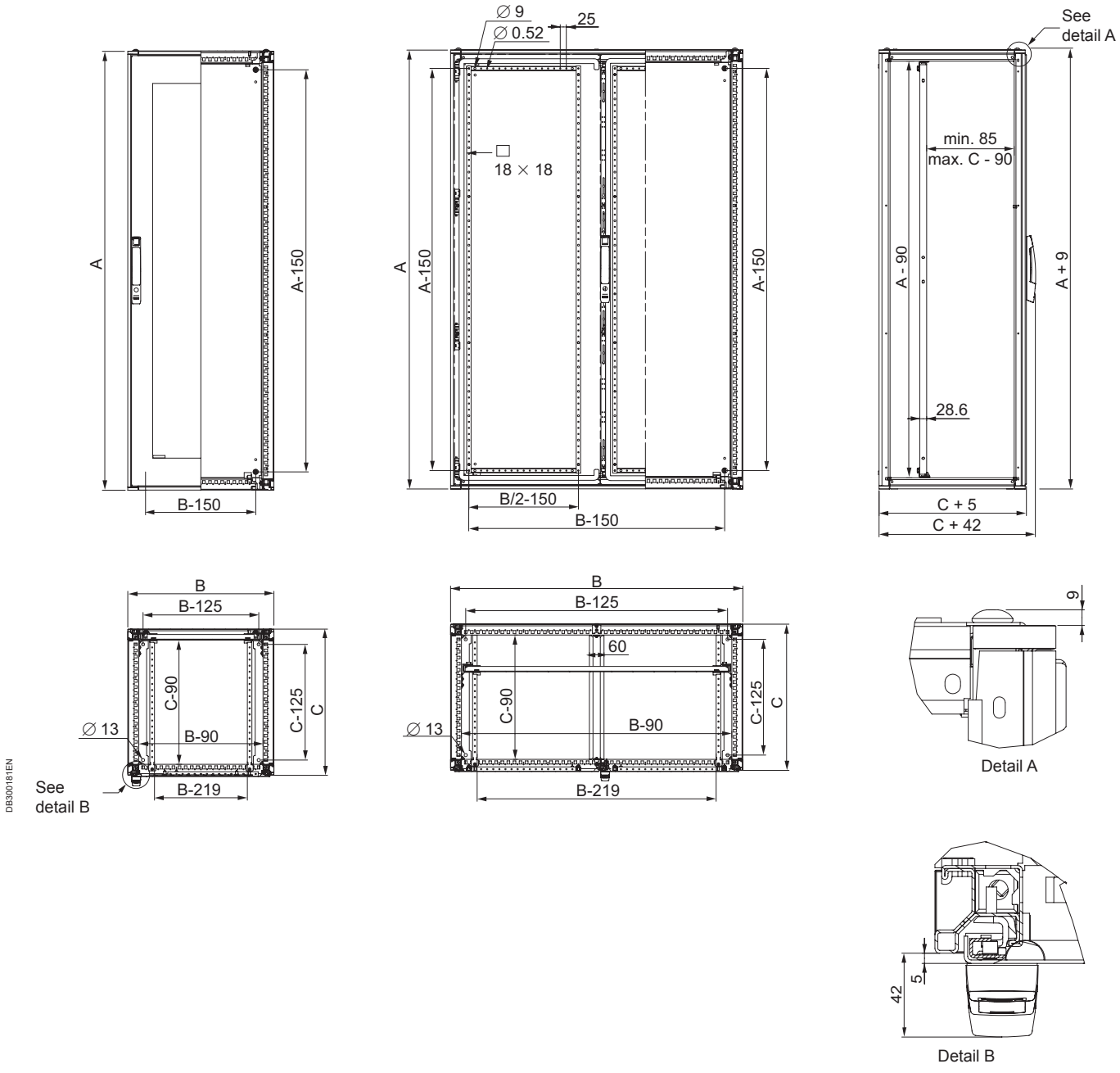


Modular distribution page 386

19" racks page 624

Suitable metal enclosures
Dimensions

Dimensions



Accessories Selector

Canopies
Page **152**

For cable entries (membranes, cable-glands)
Page **420**

Lifting
Page **148**

Locks and inserts
Page **164**

Door accessories
Page **162**

Industrial control
Page **336**

19" frame
Page **634**

Modular distribution
Page **386**

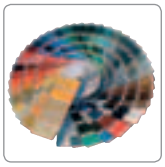
Thermal control
Page **748**

Plinth
Page **129**

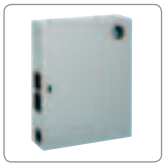
Fixing to the floor
Page **139**

Customised service: All standard dimensions from our catalogue on request and more...

Configured



Paints



Holes & Cutouts

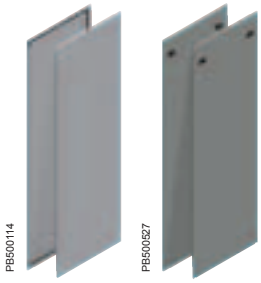
Mounting

Accessories

Main accessories
Selection guide

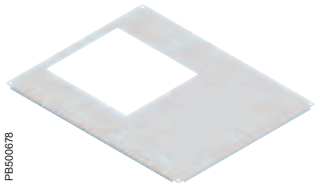
Main accessories for Spacial SM and SF enclosures
Composition accessories

SF cladding



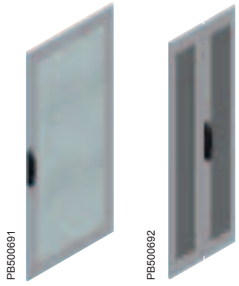
Side panels

Page
121



Blanking plate for roof and ventilated roof

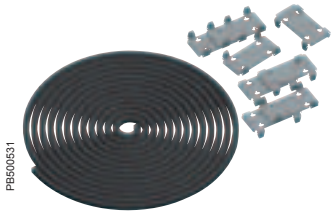
Page
628 and **632**



Off-centre ventilated and glazed door

Page
633

SF-SM cladding



Coupling kit

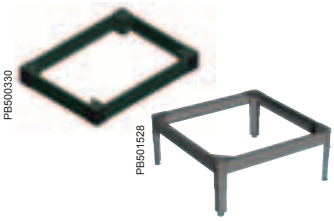
Page
125

SF base

Castors

Page
481

SF-SM base



100- and 200-mm plinth

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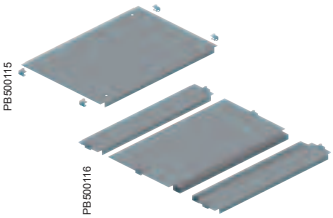
129, **135** and **139-141**

SF cable-gland plate



Cable-gland plates

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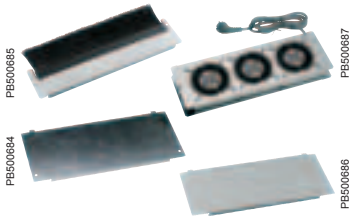
142, **626** and **627**

Cable entries



Roof plates
Blanking plates, brush gaskets, etc.

Page
630

SF-SM hoisting

Lifting eye

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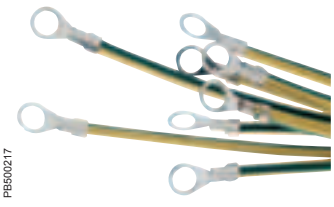
148

SF-SM door

180° hinge and **door switch**

Page
162 and **468**

SF-SM earth connection



Earthing kit

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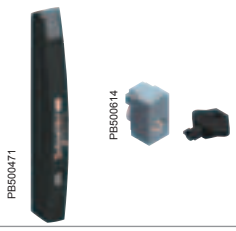
478

SF-SM locks and inserts



Locks and inserts

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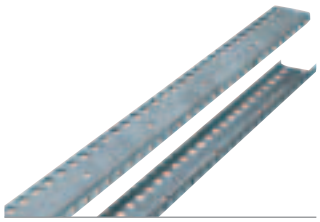
164

Main accessories
Selection guide

Mounting accessories

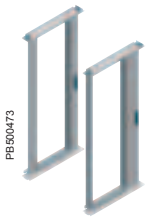
Installation



Fixed 19" uprights and supports

Page

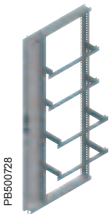
634 and **635**



19" swing racks and supports

Page

637, 640 and **641**

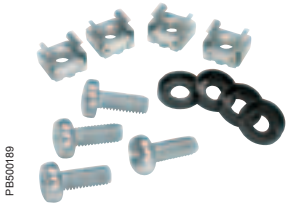


19" swing rack accessories

Page

643 and **645**

Equipment support



Fixings for 19" racks

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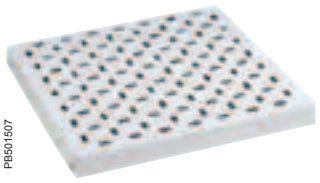
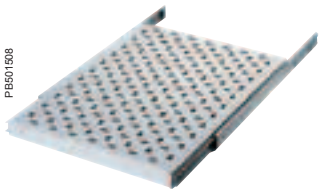
Equipment support*

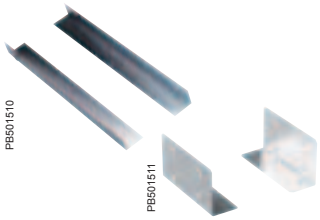


Perforated or plain fixed 19" trays



Perforated or plain telescopic 19" trays

Storage drawer

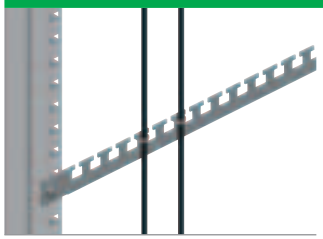


Fixed partial or full slides

* See on our website “Network connectivity”.

Cable-management accessories

Cable support



Cable-support cross-rails on framework

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Cable gland for door

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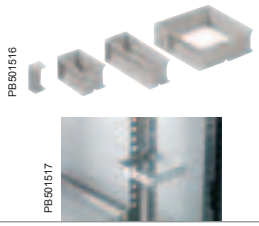
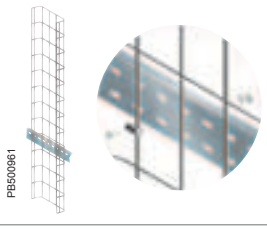
Cable distribution



Plastic or metal guides*



Wired cable trays

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Main accessories
Selection guide

Thermal-management accessories

Natural ventilation

Roof elevators

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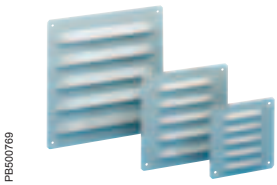
153



Ventilation louvres

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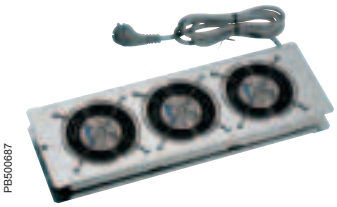
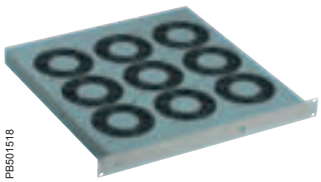
Ventilation



Blanking plate with fans

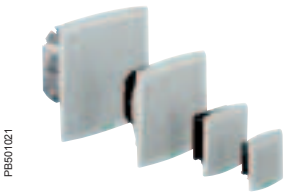
Page
630



19" drawer*

* See on our website “Network connectivity”.

Ventilation



Fans

Page
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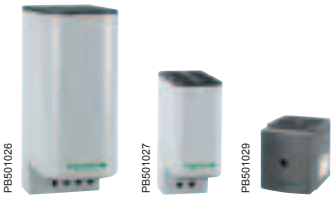
Resistances



Resistance heaters

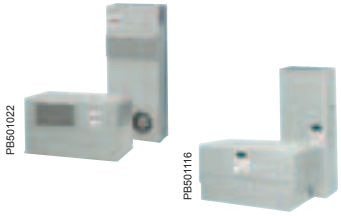
Page
736

Control

Thermostats, hygrostats, hygrotherms

Page
748

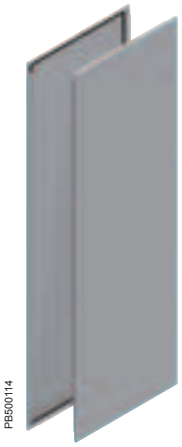
IP air-conditioning



Exchangers and cooling units

Page
686 and 702

Composition accessories
Panels


PB500114

Side panels

External fixing

- Set of 2 side panels fixed from the outside of the enclosure.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: 2 side panels fixed from the outside and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	400	**NSY2SP124**
	500	**NSY2SP125**
	600	**NSY2SP126**
	800	**NSY2SP128**
1400	400	**NSY2SP144**
	500	**NSY2SP145**
	600	**NSY2SP146**
	800	**NSY2SP148**
1600	400	**NSY2SP164**
	500	**NSY2SP165**
	600	**NSY2SP166**
	800	**NSY2SP168**
1800	400	**NSY2SP184**
	500	**NSY2SP185**
	600	**NSY2SP186**
	800	**NSY2SP188**
2000	400	**NSY2SP204**
	500	**NSY2SP205**
	600	**NSY2SP206**
	800	**NSY2SP208**
2200	400	**NSY2SP224**
	500	**NSY2SP225**
	600	**NSY2SP226**
	800	**NSY2SP228**

PB500525

Trim cap

- Trim cap for external fixing panels, both side and rear.
- Material: polyamide 6.
- Finish: RAL 7035 grey.

Supply: 50 units.

Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference
NSYCSP

Composition accessories
Panels

>Advantage:

They prevent access by unauthorised persons; advisable for use in public spaces.

Side panels

Internal fixing

- Set of 2 side panels fixed from the inside of the enclosure, preventing access by unauthorised persons. Very useful in public spaces.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: 2 side panels with internal fixing, with sealing gasket and bag of accessories.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	600	**NSY2SPI126**
1800	500	**NSY2SPI185**
	600	**NSY2SPI186**
	800	**NSY2SPI188**
2000	400	**NSY2SPI204**
	500	**NSY2SPI205**
	600	**NSY2SPI206**
	800	**NSY2SPI208**
2200	600	**NSY2SPI226**
	800	**NSY2SPI228**

>Advantage:

Quick access to the inside of the enclosure.

Quick-fixing side panels

- Set of 2 side panels fixed to the outside of the enclosure by clipping locks.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- IP40.

Supply: 2 side panels, fixed by clips, with no sealing gasket and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	600	**NSY2SPQ126**
	800	**NSY2SPQ128**
1400	600	**NSY2SPQ146**
	800	**NSY2SPQ148**
1600	600	**NSY2SPQ166**
	800	**NSY2SPQ168**
1800	600	**NSY2SPQ186**
	800	**NSY2SPQ188**
2000	600	**NSY2SPQ206**
	800	**NSY2SPQ208**
2200	600	**NSY2SPQ226**
	800	**NSY2SPQ228**

Composition accessories
Panels

PB500129

>Advantage:

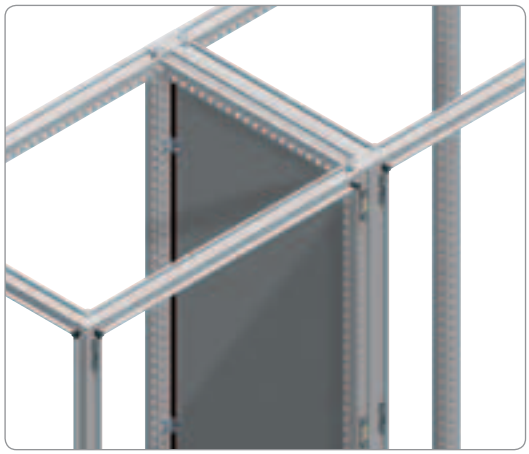
It prevents access by unauthorised persons; advisable for use in public spaces.

Internal fixing rear panel

- Rear panel fixed from the inside of the enclosure, preventing unauthorised personnel from accessing and removing it. Normally used in public spaces.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: 1 rear panel fixed from the inside and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width	
1200	600	**NSYBPI126**
1600	600	**NSYBPI166**
	800	**NSYBPI168**
1800	600	**NSYBPI186**
	800	**NSYBPI188**
	1000	**NSYBPI1810**
2000	400	**NSYBPI204**
	600	**NSYBPI206**
	800	**NSYBPI208**
	1000	**NSYBPI2010**
	1200	**NSYBPI2012**
2200	600	**NSYBPI226**
	800	**NSYBPI228**
	1000	**NSYBPI2210**


PB500528

Partition panel

- Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.
- Material: galvanised steel.

Supply: 1 partition panel, sealing gasket and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1600	600	**NSYPPS166**
	800	**NSYPPS168**
1800	400	**NSYPPS184**
	500	**NSYPPS185**
	600	**NSYPPS186**
2000	400	**NSYPPS204**
	500	**NSYPPS205**
	600	**NSYPPS206**
	800	**NSYPPS208**
2200	600	**NSYPPS226**
	800	**NSYPPS228**

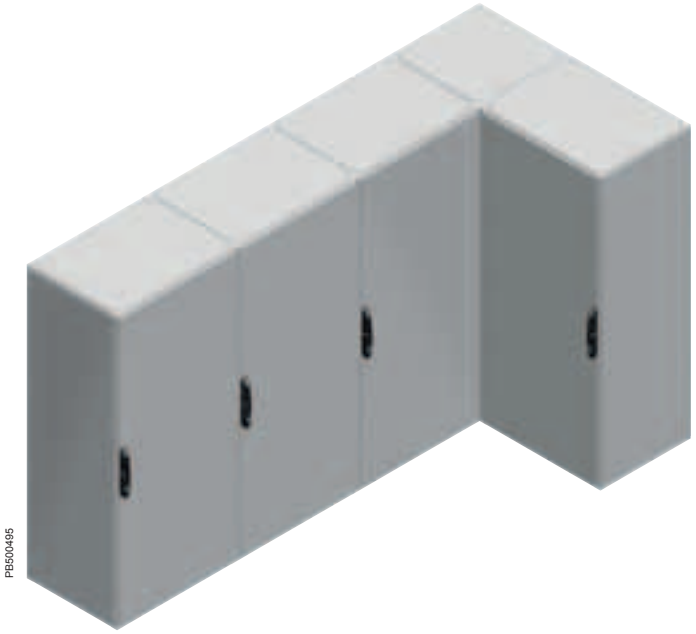
Composition accessories
Enclosure suites

Combination examples with Spacial SF

The construction design of the enclosures is based on forming sets of enclosures. Thanks to the speed and ease with which enclosures can be coupled in the width and depth directions, and the elements created especially to facilitate joining and transporting them, we can provide the best solution for every electric installation. The connecting parts are fixed to the enclosures using self-tapping M6 screws, although if necessary they can be installed using M6 and M8 caged nuts **NSYCNFM6**, **NSYCNFM8**.

Combination examples	References
Standard + reinforced coupling kit	**NSYSFBK + NSYSFBKR**
19" + reinforced coupling kit	**NSYSFBK19 + NSYSFBKR**
External + reinforced coupling kit	**NSYSFBKE + NSYSFBKR**
External + quick coupling kit	**NSYSFBKE + NSYSFBKF**

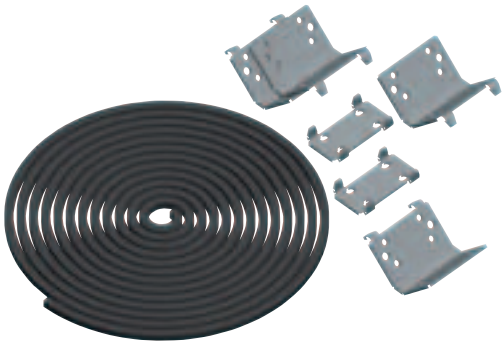
Note: maximum load under optimum conditions. See other options in the lifting and transport table page **149**.



> Advantage:

Multiple assembly options, adapting to all needs.

Composition accessories
Enclosure suites


PB500513

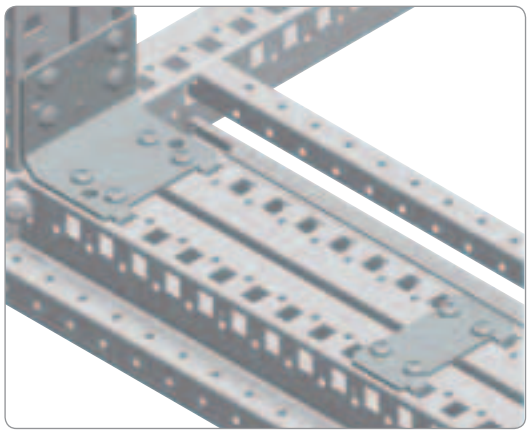
Standard coupling kit

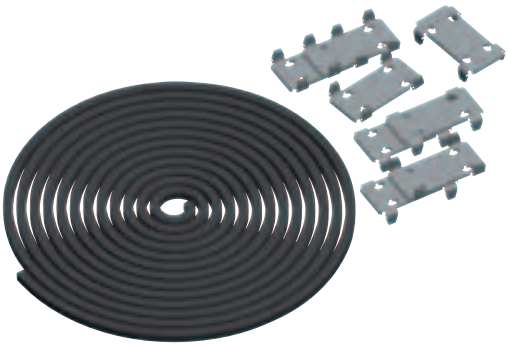
- Used for joining enclosures side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:

– Flat connectors and brackets: zinc-coated steel.
– Sealing gasket: EPDM.

Supply: 4 brackets, 2 flat connectors, sealing gasket and fixing elements.

Reference
NSYSFBK


PB500530


PB500531

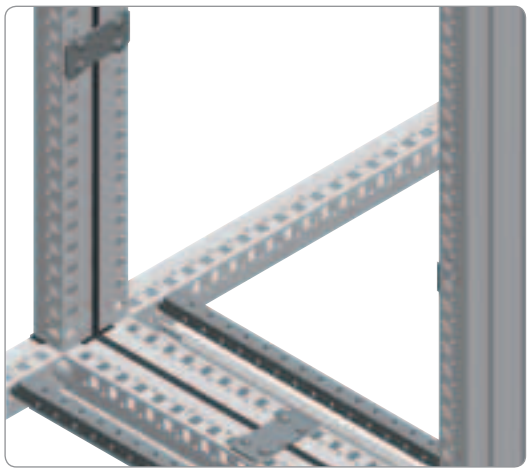
Swing 19" rack coupling kit

- Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:

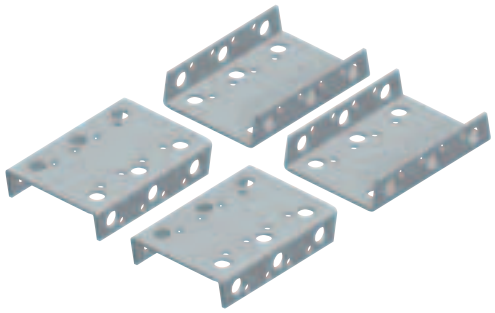
– Flat connectors: zinc-coated steel.
– Sealing gasket: EPDM.

Supply: 8 flat connectors, sealing gasket and fixing elements.

Reference
NSYSFBK19


PB500532

Composition accessories
Enclosure suites

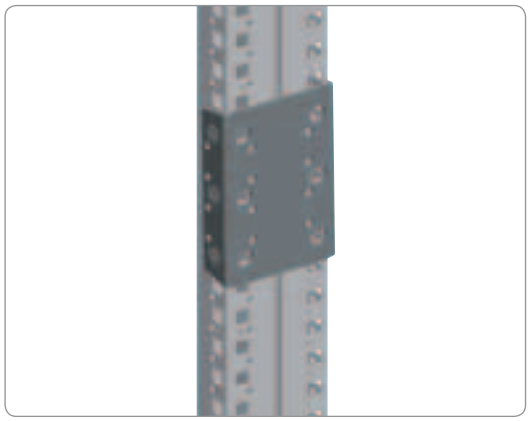

PB500533

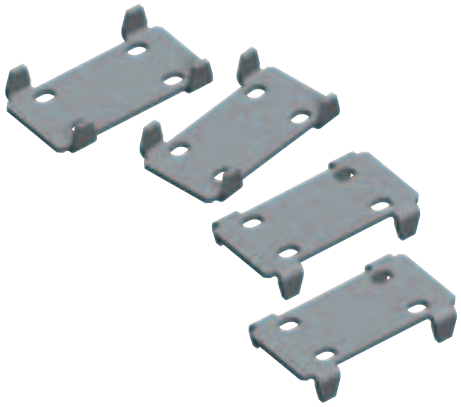
Reinforced coupling

- It is used together with the **coupling kit** to reinforce the connection between 2 enclosures when they carry heavy loads.
- Fixing from the inside of the enclosures.
- Material: zinc-coated steel.

Supply: 4 reinforced connectors and fixing elements.

Reference
NSYSFBKR


PB500534

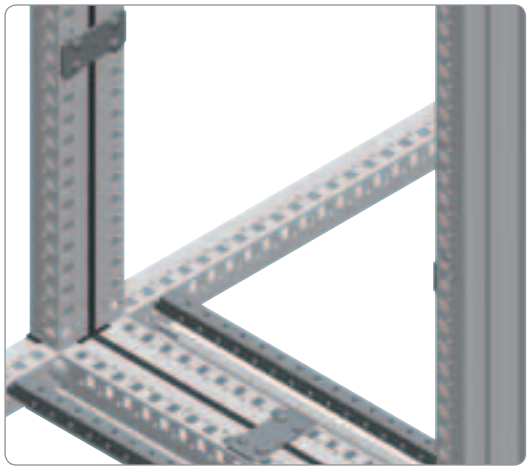

PB500535

Quick coupling

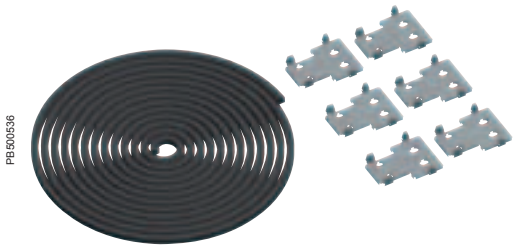
- Used for quickly joining 2 enclosures.
- Fixing from the inside of the enclosures.
- Recommended for coupling enclosures in their provisional workshop location, when the required IP degree is not high.
- Degree of protection: IP40.
- Material: zinc-coated steel.

Supply: 4 flat links and fixing elements.

Reference
NSYSFBKF


PB500532

Composition accessories
Enclosure suites


PB500536

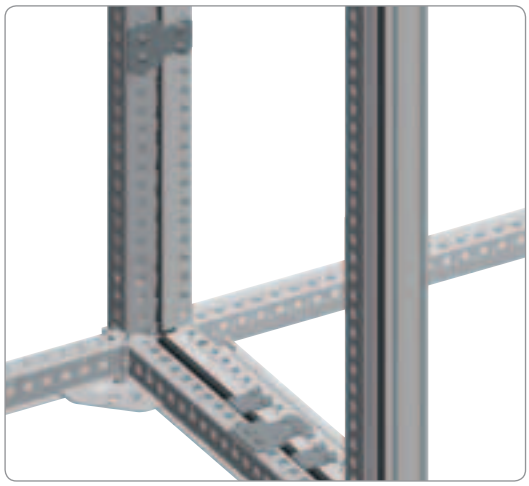
Kit for coupling the previous version with Spacial SF

- It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a **Spacial SF** enclosure.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:

– Flat connectors and spacers: zinc-coated steel.
– Sealing gasket: EPDM.

Supply: 6 flat connectors, sealing gasket and fixing elements.

Reference
NSYSFBKSH


PB500537

PB500538

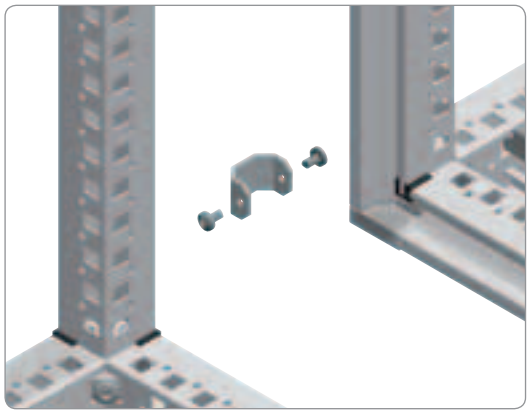
External coupling

- Allows two enclosures to be joined by their structure.
- To be used with the standard coupling kit in those cases where front and back uprights are not accesibles.
- The mounting plate or vertical uprights fixed to the back of the enclosure prevent the assembly and dismantling of the kit.
- It can be combined with the reinforced or the quick coupling kit.
- Degree of protection: IP55.
- Material:

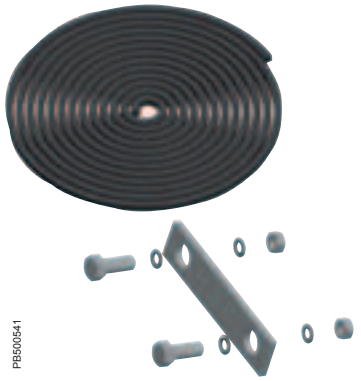
– External connectors: zinc-coated steel.
– Sealing gasket: EPDM.

Supply: 4 external connectors and fixing elements.

Reference
NSYSFBKE


PB500539

Composition accessories
Enclosure suites


PB500541

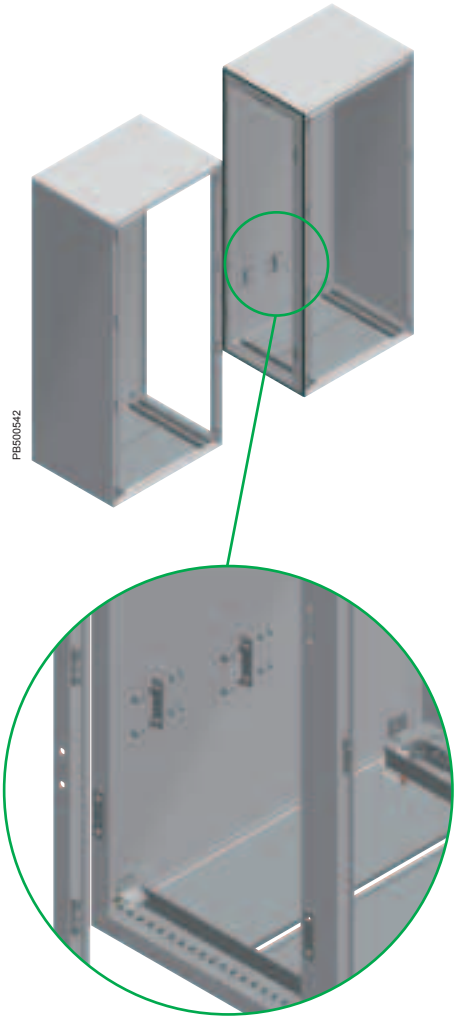
Enclosure coupling kit for Spacial SM

- Used for joining enclosures side-to-side.
- Enclosures fixed from the inside.
- Degree of protection: IP55.
- Material:

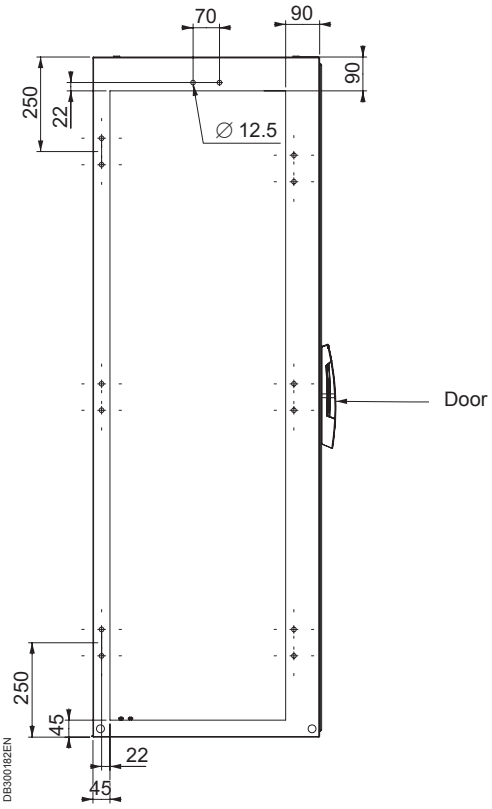
– 9 x 11 sealing gasket: EPDM.

Supply: 1 sealing gasket and fixing elements.

Reference
NSYSMBK


PB500542

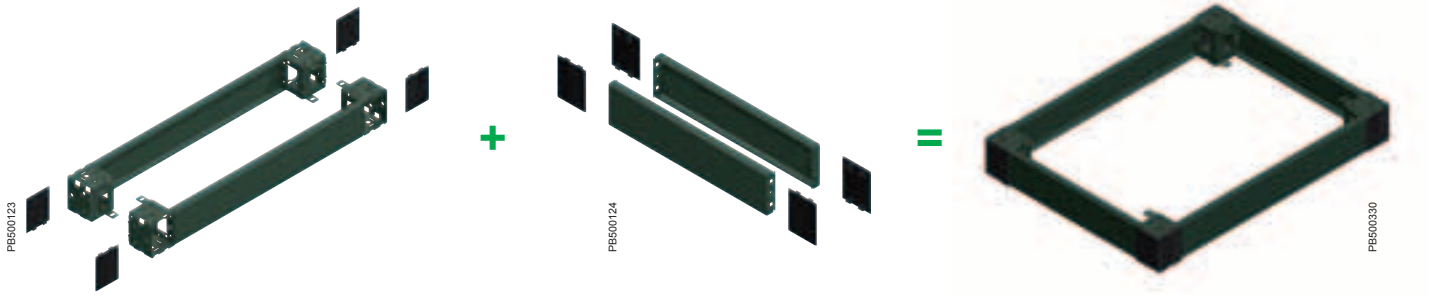
PB500543



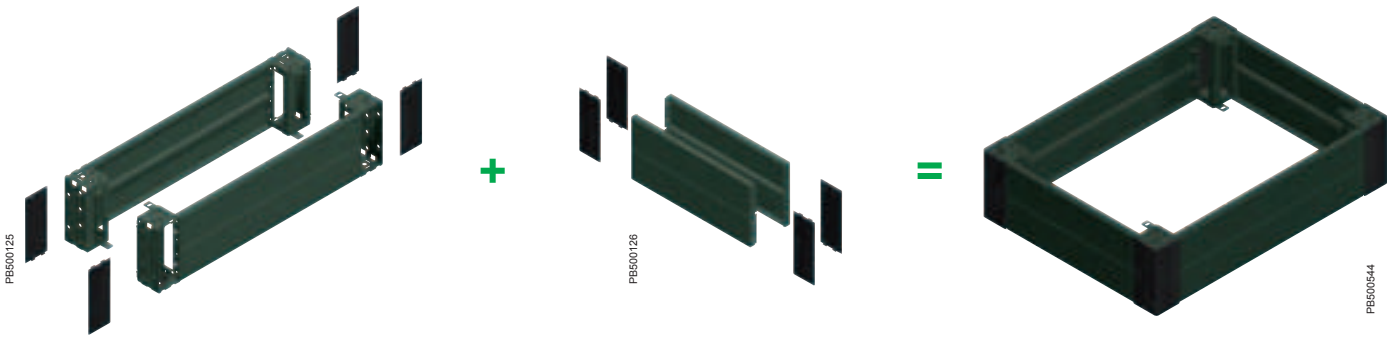
Composition accessories
Floor

Plinth in kit form

Front and rear kit | **Side panels** | **Complete plinth**



Plinth height 100 mm



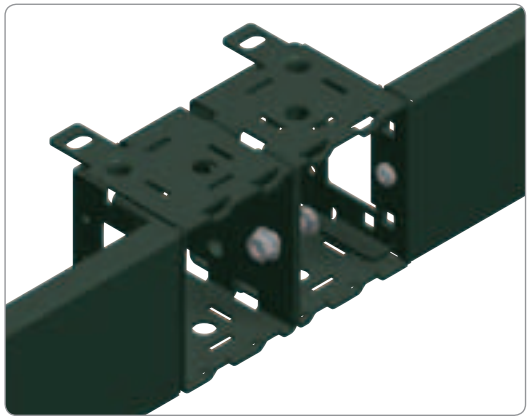
Plinth height 200 mm

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure.
The number of side panels required is decided according to the desired plinth combination.

> Advantage:

– Robust design.
– The modular plinth system makes it possible to reduce the number of references in stock.

Composition accessories
Floor


PB500545

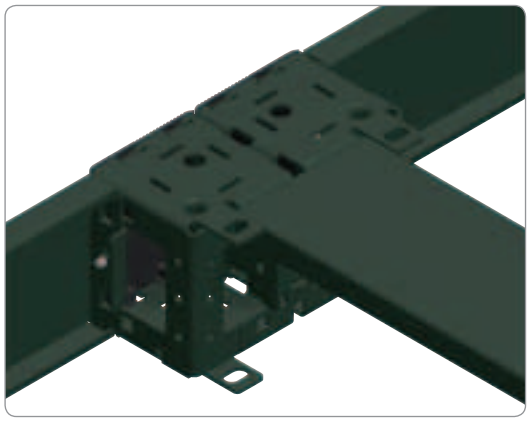
Possibility of joining plinths

❶ **The surfaces between corners are always in contact.**
They are joined by an M8 screw and nut, not included in the standard supply.

> Advantage:

Longitudinally free space for passing cables.

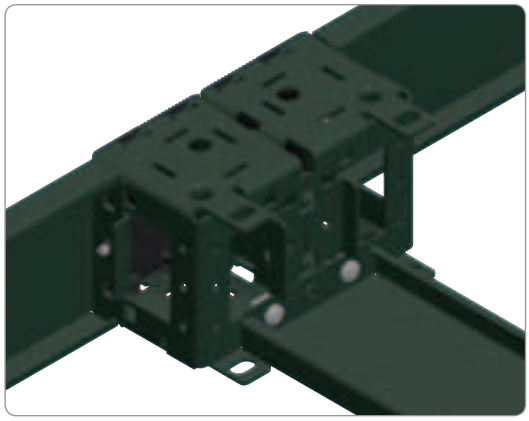
Greater rigidity of the resultant assembly unit.

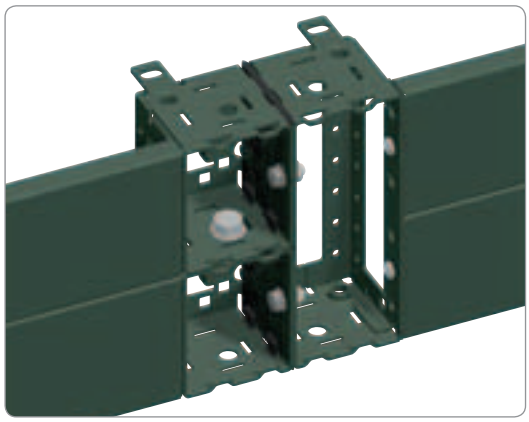

PB500546

❷ By side panels, the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.

> Advantage:

Improves rigidity in the depthwise direction during transport.


PB500547

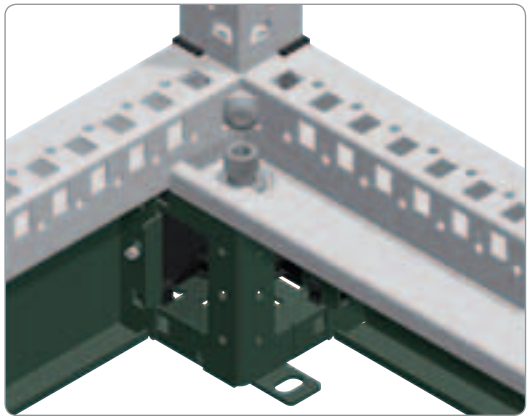

PB500548

❸ **Vertical plinth assembly** by means of M12 screws and nuts, not included in the standard supply.

> Advantage:

The two heights of corners can be combined.

Composition accessories
Floor

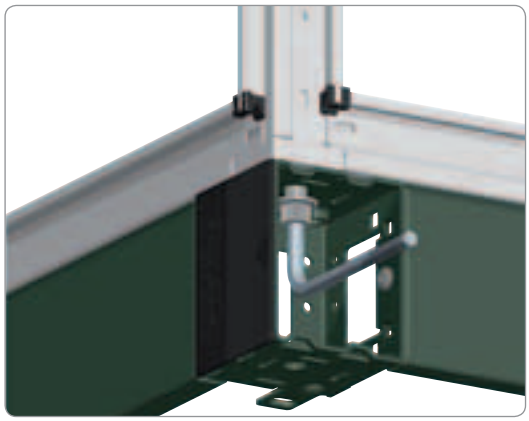

PB500549

Possibility of fixing the enclosure to the plinth

1 Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

>Advantage:

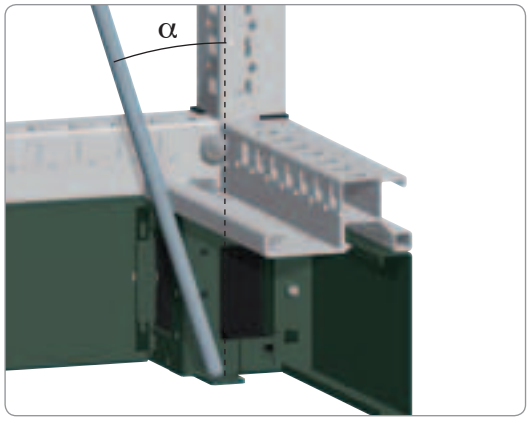
Fixing convenience and speed.


PB500550

2 Fixing from the outside of the enclosure with a M12 screw, screwing directly onto the vertical upright.

>Advantage:

Maximum rigidity of the enclosure-plinth assembly.



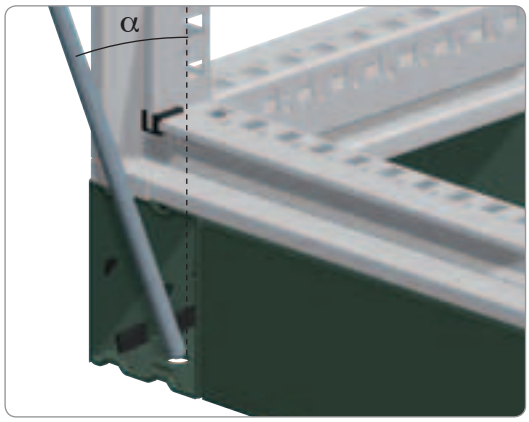
PB500551

Possibility of fixing the plinth to the floor

1 Fixing from the inside of the enclosure.

The machining angle varies according to the plinth model:

Plinth height 100 mm α = 18°.
Plinth height 200 mm α = 9°



PB500552

2 Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

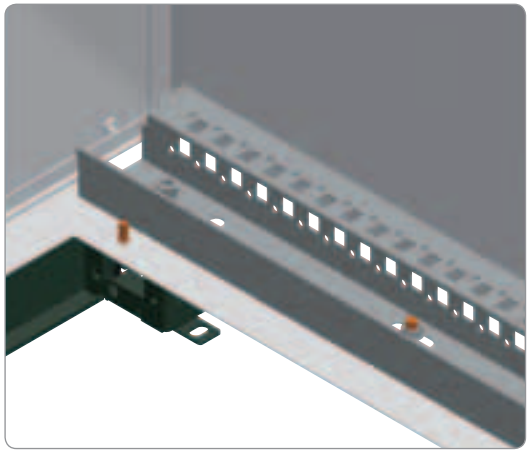
The machining angle varies according to the plinth model:

Plinth height 100 mm α = 22°.
Plinth height 200 mm α = 11°.

3 It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.

Composition accessories
Floor

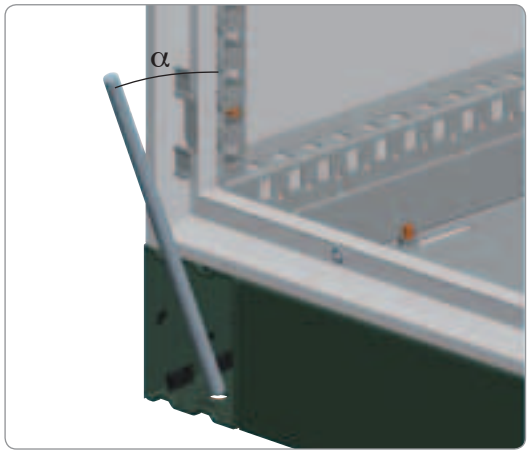

PB500553

Fixing the enclosure to the plinth

Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

> Advantage:

Fixing convenience and speed.



PB500554

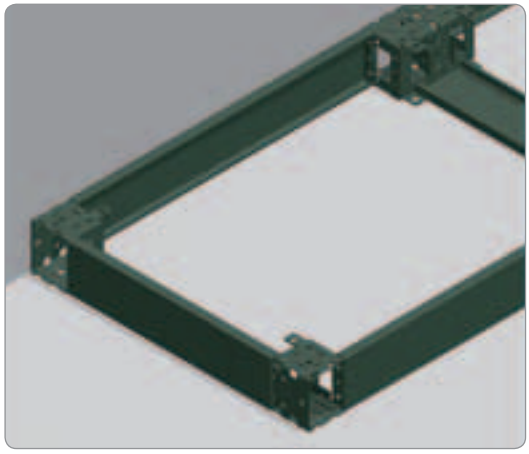
Fixing the enclosure to the ground

Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:

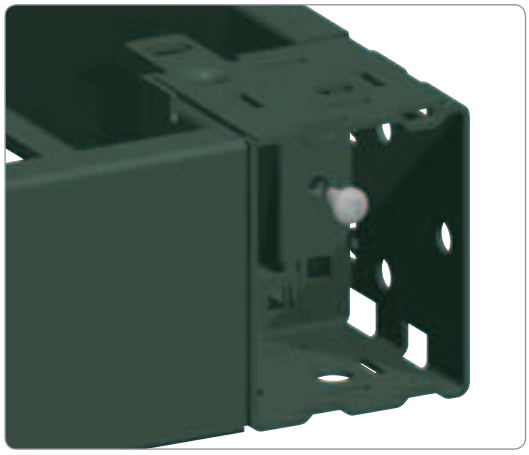
Plinth height 100 mm: α = 22°.
Plinth height 200 mm: α = 11°.

Composition accessories
Floor


PB500555

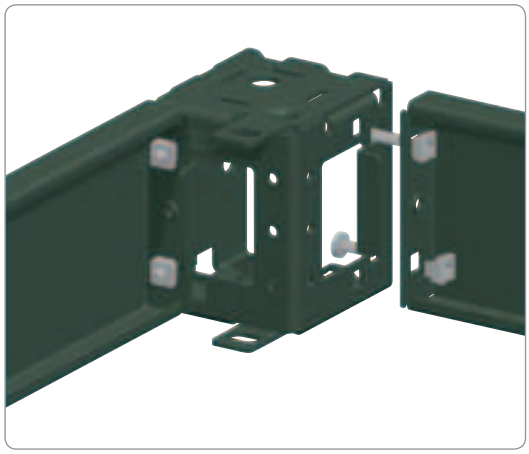
- Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:
  – To remove the side panels (turning the corner).
  – To access the external fixing to the floor.

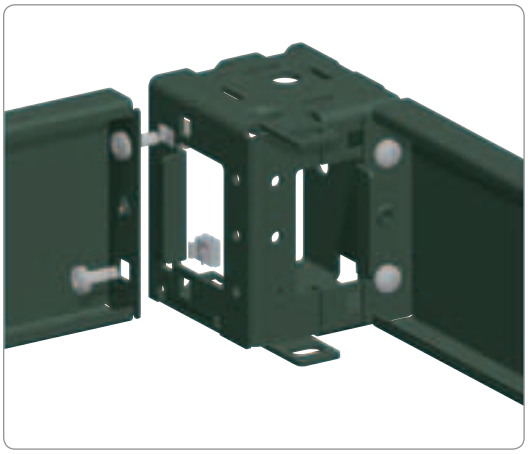
It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.


PB500556

Assembly of the plinth panels

The panels are fixed with an M6 screw to the corner, included in the standard supply of the side panels.
The front and rear panels are delivered mounted on the corners.


PB500557

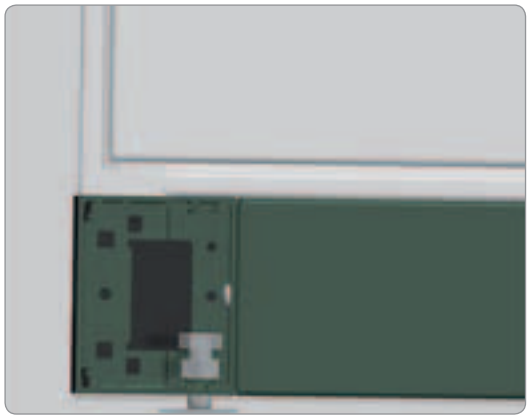

PB500558

Fixing options

Fixing points can be added to the panels, mounting M6 caged nuts, reference **NSYCN9M625**, at the ends and fixing them to the corner by means of M6 screws, reference **NSYSPM6**.

The plinth can be made tamper-proof; the panels cannot be removed without accessing the inside of the enclosure. For this purpose, they are mounted on the corner with M6 caged nuts, reference **NSYCN9M625**, and the panels are fixed to the corner by means of M6 screws, reference **NSYSPM6**.

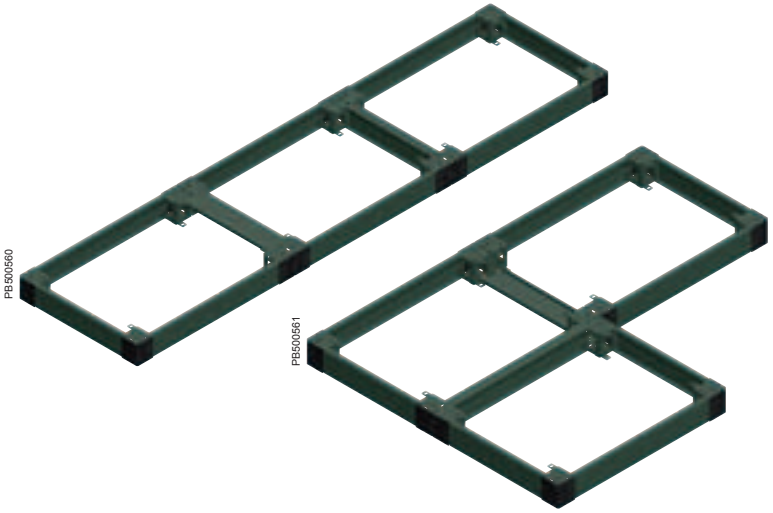
Composition accessories
Floor


PB500559

Levelling the plinth

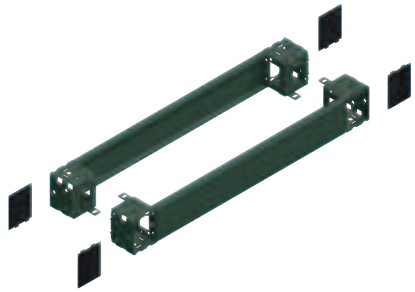
The plinth allows levelling by means of an M12 screw.

Examples of solutions

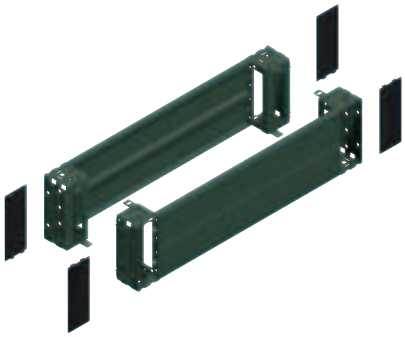

PB500560

PB500561

Composition accessories
Floor



PB500123



PB500125

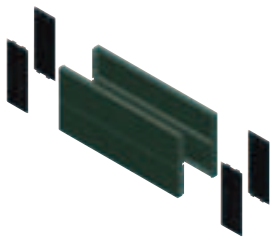
Front plinth

- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: folded sheet steel, corner with a thickness of 2.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Degree of protection: IP30 of the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Maximum load: 1300 kg.
- Model heights: 100 and 200 mm.

Supply:
– **Height 100 mm:** 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements.
– **Height 200 mm:** 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
Width	100 mm	200 mm
300	**NSYSPF3100**	**NSYSPF3200**
400	**NSYSPF4100**	**NSYSPF4200**
600	**NSYSPF6100**	**NSYSPF6200**
800	**NSYSPF8100**	**NSYSPF8200**
1000	**NSYSPF10100**	**NSYSPF10200**
1200	**NSYSPF12100**	**NSYSPF12200**
1600	**NSYSPF16100**	**NSYSPF16200**

PB500124



PB500126

Plinth side panels

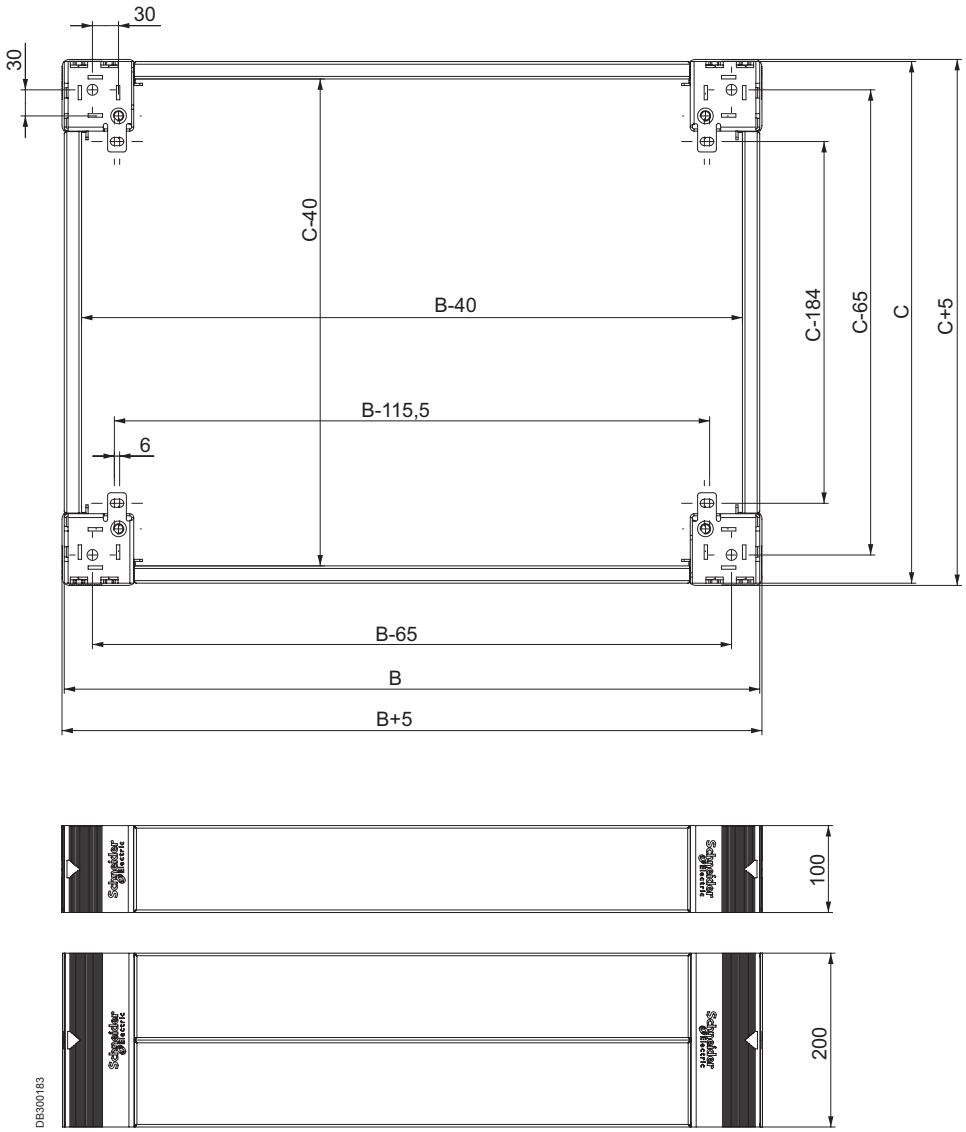
- They are fixed to the corner of the plinth by 2 fixing screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Degree of protection: IP30 of the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Model heights: 100 and 200 mm.

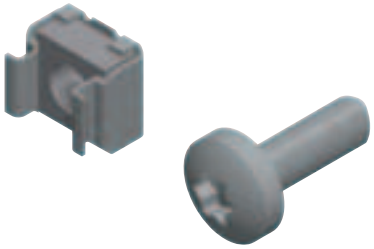
Supply:
– **Height 100 mm:** 2 side panels, 4 corner covers and fixing elements.
– **Height 200 mm:** 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
Depth	100 mm	200 mm
300	**NSYSPS3100**	**NSYSPS3200**
400	**NSYSPS4100**	**NSYSPS4200**
500	**NSYSPS5100**	**NSYSPS5200**
600	**NSYSPS6100**	**NSYSPS6200**
800	**NSYSPS8100**	**NSYSPS8200**

Composition accessories
Floor

General layout of the plinth





PB500562

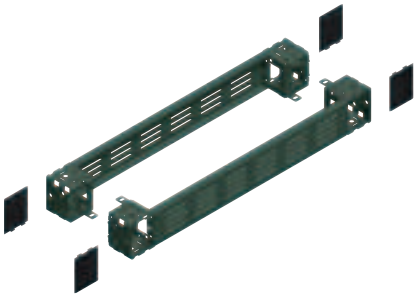
Screws and nuts for internal fixing of the plinth panels

- Optional fixings for the panels with M6 screws and caged nuts.
- According to the position of the caged nut, the panels can be made tamper-proof. By accessing the screw, only from the inside of the enclosure. See pages **131** and **132**.
- Valid for all types of panels.

Screws and nuts for internal fixing of plinth panels		
Description	**Supply (units)**	**Reference**
Torx T30 M6 x 10 screws	50	**NSYSPM6**
M6 caged nuts	100	**NSYCN9M625**

Reference by unit. Order by multiples of 50 (Torx screws) and 100 (Caged nuts).

Composition accessories
Floor

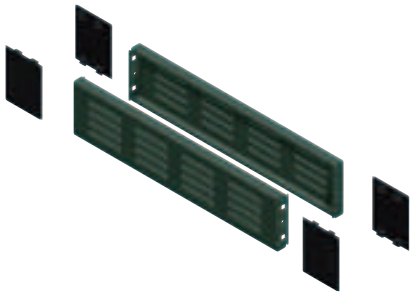

PB500563

Ventilated front plinth

- The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.
- Material: folded sheet steel, corner with a thickness of 2.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- IP20.
- Resistance to external mechanical impacts: IK10.
- Maximum load: 1300 kg.
- Model height 100 mm.

Supply: height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference
Width (B)	Height 100 mm
600	**NSYSPFV6100**
800	**NSYSPFV8100**

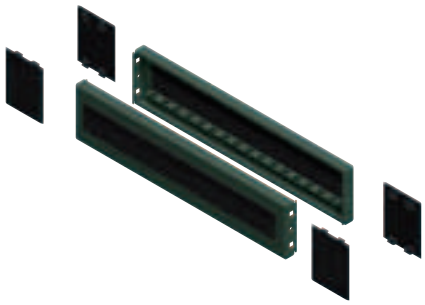

PB500564

Ventilated side panels

- They are fixed to the corner of the plinth by fixing screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- IP20.
- They can be combined with front plinths with a height of 200 mm. In this case, 2 sets of ventilated side panels are required.

Supply: height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	Height 100 mm
600	**NSYSPV6100**
800	**NSYSPV8100**

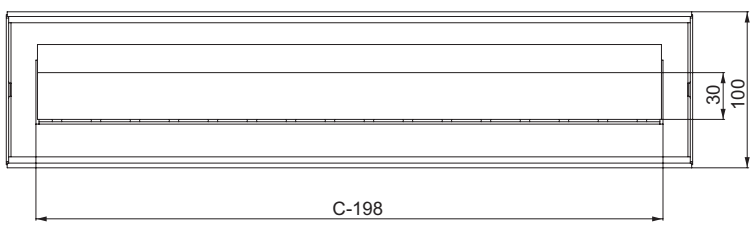

PB500565

Panels with brush

- They allow the entry and fixing of cables inside the enclosure, through the plinth.
- Attachment to the corners of the plinth by screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Model heights: 100 mm.

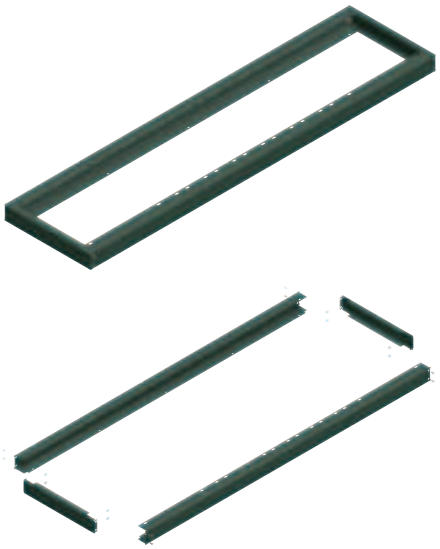
Supply: 2 panels with brushes, 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	
600	**NSYSPB6100**
800	**NSYSPB8100**



DB300184

Composition accessories
Floor


PB500566

PB500567

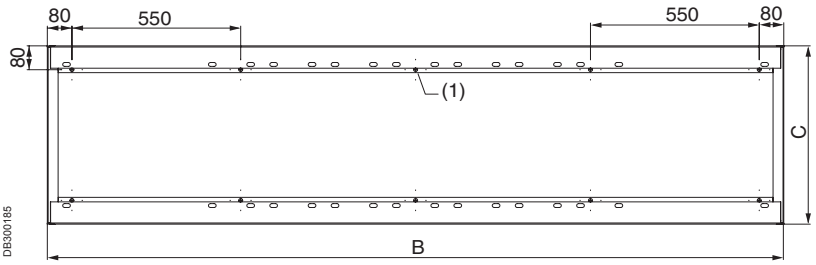
Plinth for sets

- Designed for the assembly of sets of 2 to 4 **Spacial SF** enclosures, joined on a single plinth.
- Made up of a front and rear set with a 3-mm U-shaped profile and one or two sets of side panels, also with a U-shaped profile.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Model heights: 100 and 200 mm.

Supply:
– Front plinth: 2 U-shaped profiles and fixing elements.
– Side panels:
Height 100 mm: 2 side panels and fixing elements.

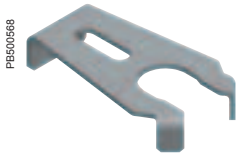
Nominal dimensions (mm)	Set front plinth reference	
Width (B)	100 mm	200 mm
1600	**NSYSPFC16100**	**NSYSPFC16200**
1800	**NSYSPFC18100**	**NSYSPFC18200**
2400	**NSYSPFC24100**	**NSYSPFC24200**

Nominal dimensions (mm)	Set side panel reference	
Depth (C)	100 mm	200 mm
400	**NSYSPC4100**	2 x **NSYSPC4100**
500	**NSYSPC5100**	2 x **NSYSPC5100**
600	**NSYSPC6100**	2 x **NSYSPC6100**
800	**NSYSPC8100**	2 x **NSYSPC8100**



(1) Only for version with width of 2400 mm.

Composition accessories
Floor

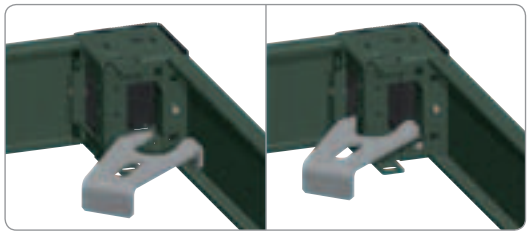

PB500568

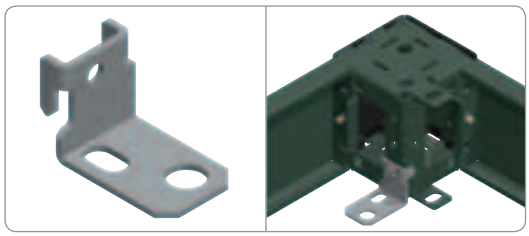
Fixing to the floor

- Piece for fixing the plinth to the floor in the event of not being able to use the drill holes made in the plinth.
- Material: zinc-coated steel.
- Thickness: 4 mm.
- M12 fixing point.

Supply: 4 pieces, fixing elements not supplied.

Reference
NSYSGF


PB500569 PB500570

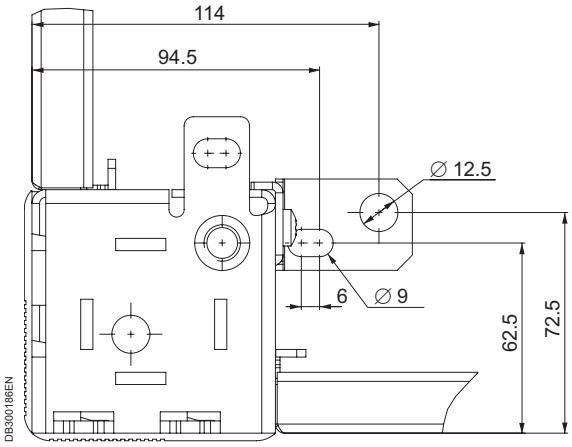

PB500571 PB500572

Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)

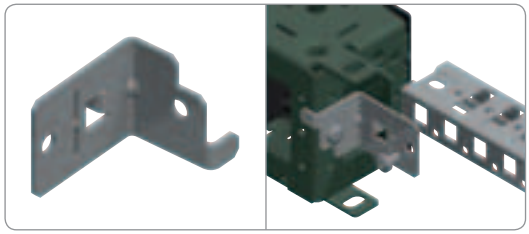
- Pieces that reproduce the floor-fixing points of the previous plinth.
- Material: zinc-coated steel.
- Thicknesses: 4 mm.
- M12 fixing point.

Supply: 4 pieces, fixing elements not supplied.

Reference
NSYOL6GF



Composition accessories
Floor



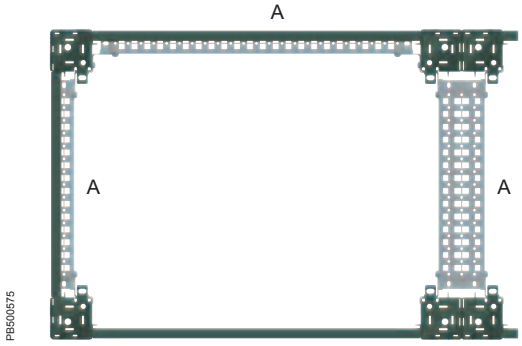
Plinth cross-rail support

- Support for fixing a cross rail inside the plinth.
- Material: zinc-coated steel.
- Thicknesses: 2 mm.
- Fixing to the corner, 100 and 200 mm, height adjustment with a pitch of 25 mm.

Supply: 12 pieces and fixing elements.

Reference by unit. Order by multiples of 12 (12, 24, 36...).

Reference
NSYSPCR



Plinth cross rails fixed in position A.

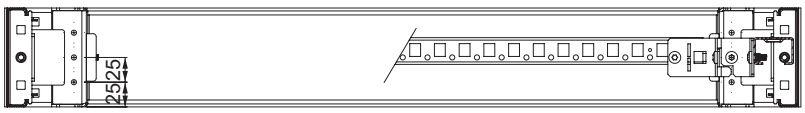
Plinth cross rails

- They are fixed across the width and/or depth between the corners of the plinth.
- The plinth cross-rail supports are required for its assembly, ref. **NSYSPCR**.
- Material: zinc-coated steel.
- They allow to set and adjust the depth of the cross rails for fixing cables or other elements.

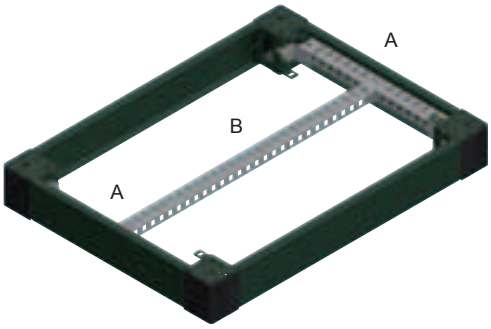
Supply: 2 cross rails and fixing elements.

Plinth cross rails fixes in position A:

Plinth cross rails		
Nominal width/depth (mm)	Cross rails 1 row (40)	Cross rails 3 rows (90)
400	NSYSUCR4030	NSYSUCR9030
500	NSYSUCR4040	NSYSUCR9040
600	NSYSUCR4050	NSYSUCR9050
800	NSYSUCR4070	NSYSUCR9070
1000	NSYSUCR4090	NSYSUCR9090
1200	NSYSUCR40110	NSYSUCR90110
1600	NSYSUCR40150	NSYSUCR90150



Composition accessories
Floor

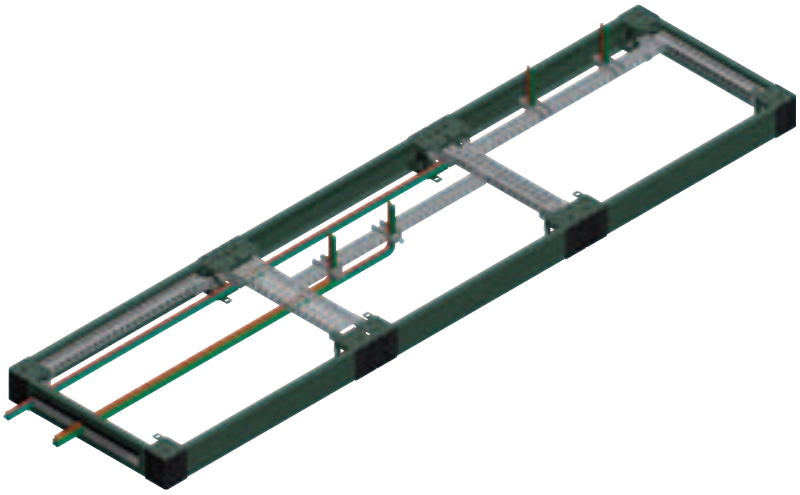


PB500576

Plinth cross rail fixes in position B.
It requires 2 cross rails in position A to be fixed.

Plinth cross rail fixed in position B

- They are fixed to the plinth cross rails, both the universal and the quick-fixing types.
- Their depth is adjustable with a pitch of 25 mm.
- See universal and quick-fixing cross rail references, page **357**.



PB500577

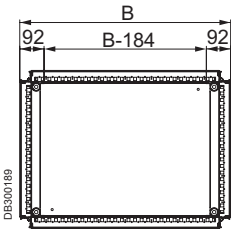
Example of fixing **Spacial SF**

Composition accessories
Cable entry

Cable-gland plates

- Plates for cable entry from the bottom of the enclosure.
- Material: galvanised steel.
- Thicknesses: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- Each plate has 2 drill holes with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).
- Plate models:

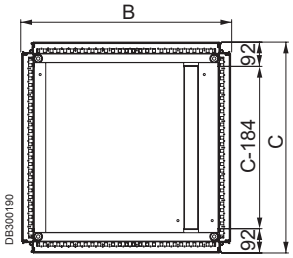
– Plain.
– With 1 entry.
– With 2 entries.



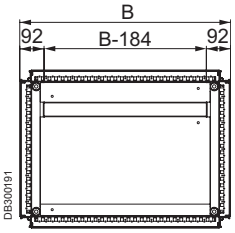
Plain cable-gland plate

- Maximum compact water/dustproof design.

Supply: plain plate and fixing elements.



Enclosures of 300 and 400 mm width.

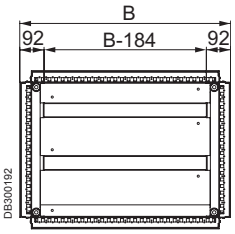


Enclosures of 600, 800, 1000 and 1200 mm width.

Cable-gland plate with 1 entry

- Facilitates the entry of cables thanks to a longitudinal opening.

Supply: plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements.

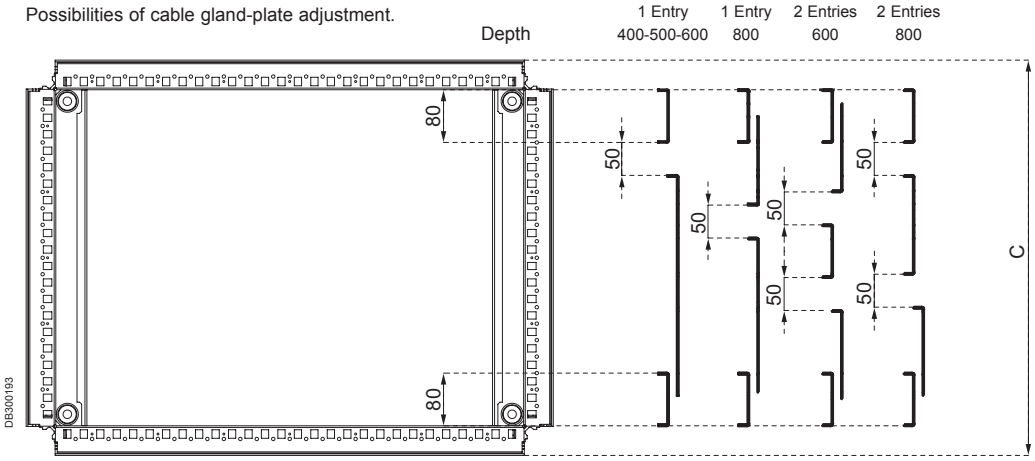


Cable-entry plate with 2 entries

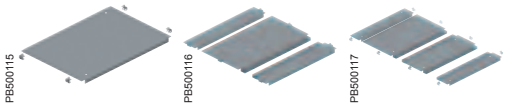
- Cable entry for very deep enclosures (600 and 800 mm).
- Two longitudinal openings allowing a large number of cables through.

Supply: 1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements.

Possibilities of cable gland-plate adjustment.



Composition accessories
Cable entry



Nominal SF dimensions (mm)		Reference		
Width (B)	Depth (C)	Plain	With 1 entry	With 2 entries
300	500	NSYEC35	NSYEC351	-
300	600	NSYEC36	NSYEC361	-
400	400	NSYEC44	NSYEC441	-
400	500	NSYEC45	NSYEC451	-
400	600	NSYEC46	NSYEC461	-
400	800	NSYEC48	NSYEC481	-
600	400	NSYEC64	NSYEC641	-
600	500	NSYEC65	NSYEC651	-
600	600	NSYEC66	NSYEC661	NSYEC662
600	800	NSYEC68	NSYEC681	NSYEC682
800	400	NSYEC84	NSYEC841	-
800	500	NSYEC85	NSYEC851	-
800	600	NSYEC86	NSYEC861	NSYEC862
800	800	NSYEC88	NSYEC881	NSYEC882
1000	400	NSYEC104	NSYEC1041	-
1000	500	NSYEC105	NSYEC1051	-
1000	600	NSYEC106	NSYEC1061	NSYEC1062
1000	800	NSYEC108	NSYEC1081	NSYEC1082
1200	400	NSYEC124	NSYEC1241	-
1200	500	NSYEC125	NSYEC1251	-
1200	600	NSYEC126	NSYEC1261	NSYEC1262
1200	800	NSYEC128	NSYEC1281	NSYEC1282
1600	400	NSYEC164	NSYEC1641	-
1600	500	NSYEC165	NSYEC1651	-
1600	600	NSYEC166	NSYEC1661	NSYEC1662

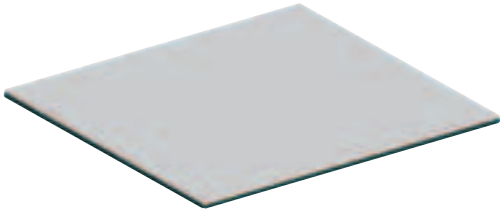
Brush-type cable-entry gasket

- For plates with 1 or 2 cable entries. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation by clipping onto the sheet.
- Width of the brush-type gasket: 25 mm.

Supply: 2 brush-type gaskets.

Spacial SF width (mm)	Reference
300	NSYBCE3
400	NSYBCE4
600	NSYBCE6
800	NSYBCE8
1000	NSYBCE10
1200	NSYBCE12
1600	NSYBCE16

Composition accessories
Cable entry


PB500581

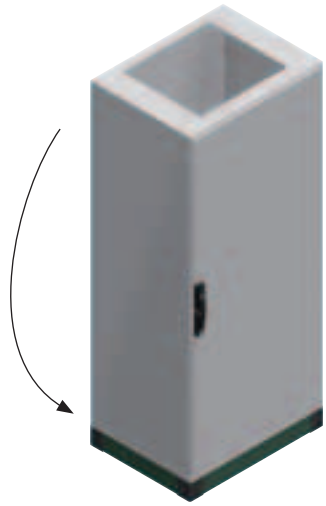
Plain cable-gland plate

- Plain cable-gland plates for compact enclosures.
- Fixing from the outside in:

– Enclosures with the cable entry at the top (enclosures rotated 180°). Compatible with the plinth.
– Enclosures with cut-out roof.

- Fixing from the inside on the base of the enclosure.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

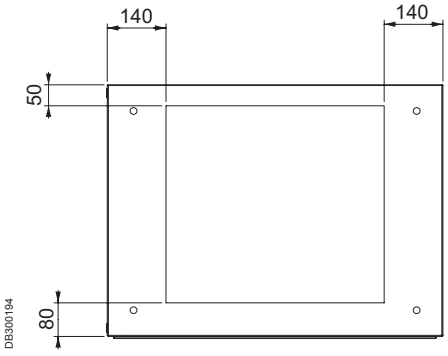
Supply: 1 plain plate and fixing elements.


PB500582

Enclosure rotated 180°.

Spacial SM Dimensions (mm)		Reference
Width	Depth	
600	300	**NSYSMEC63**
600	400	**NSYSMEC64**
600	500	**NSYSMEC65**
600	600	**NSYSMEC66**
800	300	**NSYSMEC83**
800	400	**NSYSMEC84**
800	500	**NSYSMEC85**
800	600	**NSYSMEC86**
1000	300	**NSYSMEC103**
1000	400	**NSYSMEC104**
1000	500	**NSYSMEC105**
1200	300	2 x **NSYSMEC63**
1200	400	2 x **NSYSMEC64**
1200	500	2 x **NSYSMEC65**
1200	600	2 x **NSYSMEC66**
1600	500	2 x **NSYSMEC85**
1600	600	2 x **NSYSMEC86**

PB500583



Dimensions of the cut-out to be made in the roof if the enclosure is not rotated 180°.

Composition accessories
Cable entry

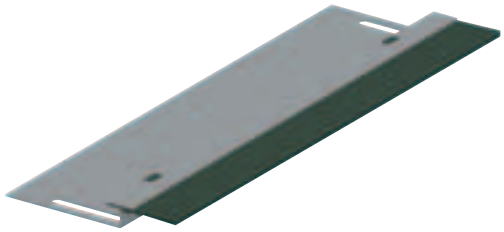
PB500584

Brush-type cable-entry gasket

- Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation by clipping onto the sheet.
- Width of the brush gasket: 34 mm.

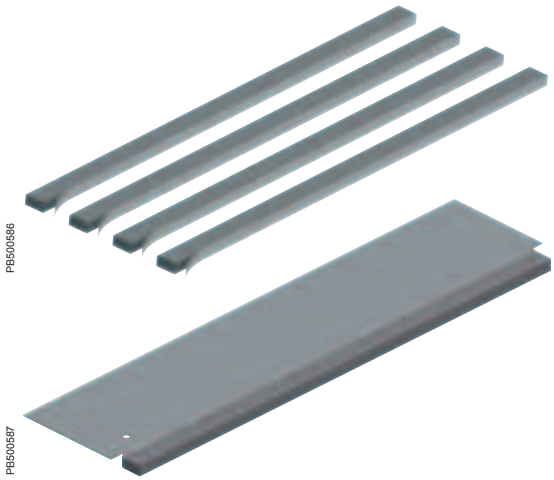
Supply: 2 brush-type gaskets.

Spacial SM width (mm)	Reference
600	**NSYSMBCE6**
800	**NSYSMBCE8**
1000	**NSYSMBCE10**
1200	2 x **NSYSMBCE6**
1600	2 x **NSYSMBCE8**



PB500585

Composition accessories
Cable entry


PB500586

PB500587

Foam cable-entry gasket

- Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.
- Adhesive to guarantee good sealing.

Supply: 4 strips with a length of 1 m.

Reference
NSYCEJ

Composition accessories
Cable entry

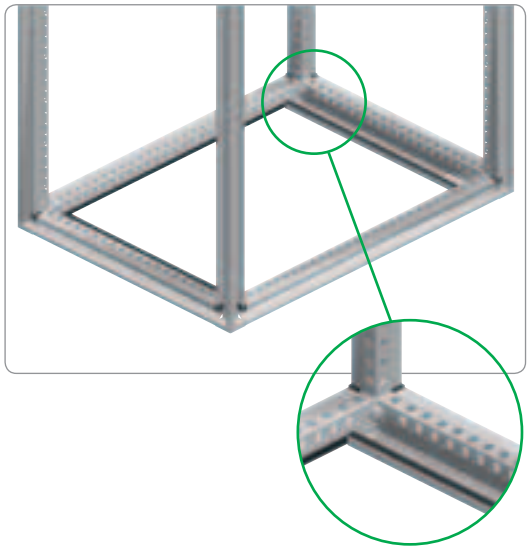
PB500513

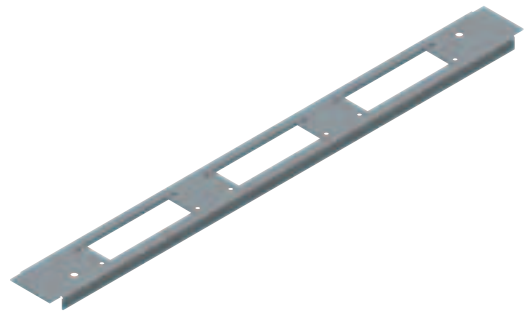
Sealing gasket

- Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable-gland plates.
- Adhesive to guarantee good sealing.

Supply: 5.8-m spiral gasket.

Reference
NSYCEK


PB500588

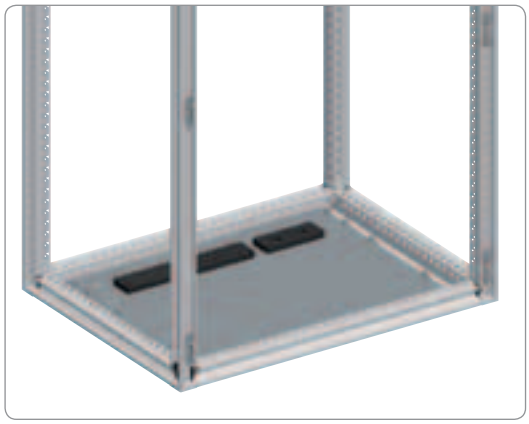

PB500589

Cable-gland plate for connectors

- Plate to be used together with plates with 1 or 2 cable entries, adding or replacing one of the parts.
- The system allows the simultaneous installation of various connector-entry plates.
- Material: galvanised steel.
- Thickness: 1.5 mm.

Supply: 1 plate and fixing elements.

Spacial SF width (mm)	Number of cuts	Reference
600	2	NSYDCE6
800	3	NSYDCE8
1000	4	NSYDCE10
1200	4	NSYDCE12


PB500590

Composition accessories
Lifting systems

PB500514

> Advantage:

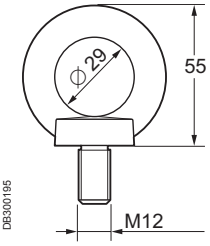
Eyebolts screwed directly into the vertical axis of the upright contribute greatly to robustness during transport.

Eyebolts

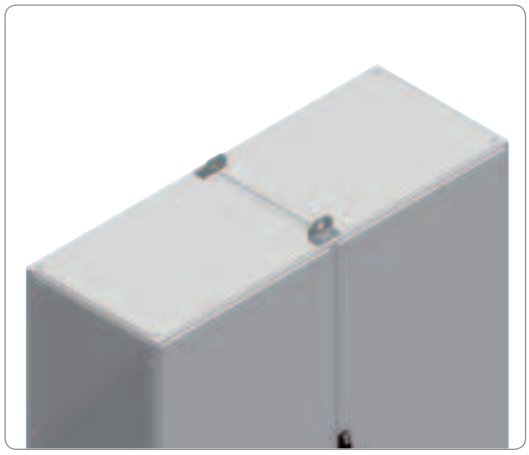
- Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.
- Recommended to be used for transportation of single switchboards.
- Material: galvanised cast steel.
- Maximum load: 340 kg per eyebolt.

Supply: 4 eyebolts.

Reference
NSYSFEB



DB300195



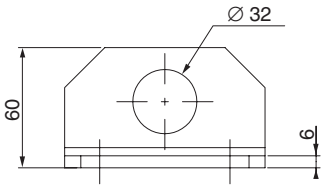
PB500506

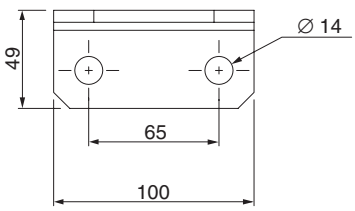
Lifting brackets

- Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
- Recommended to be used for transportation of 2 switchboards with light loads installed.
- Material: zinc-coated steel.
- Maximum load per single switchboard: 500 kg.

Supply: 4 brackets and fixing elements (M12 screws).

Reference
NSYSFELB





DB300196

Composition accessories
Lifting systems

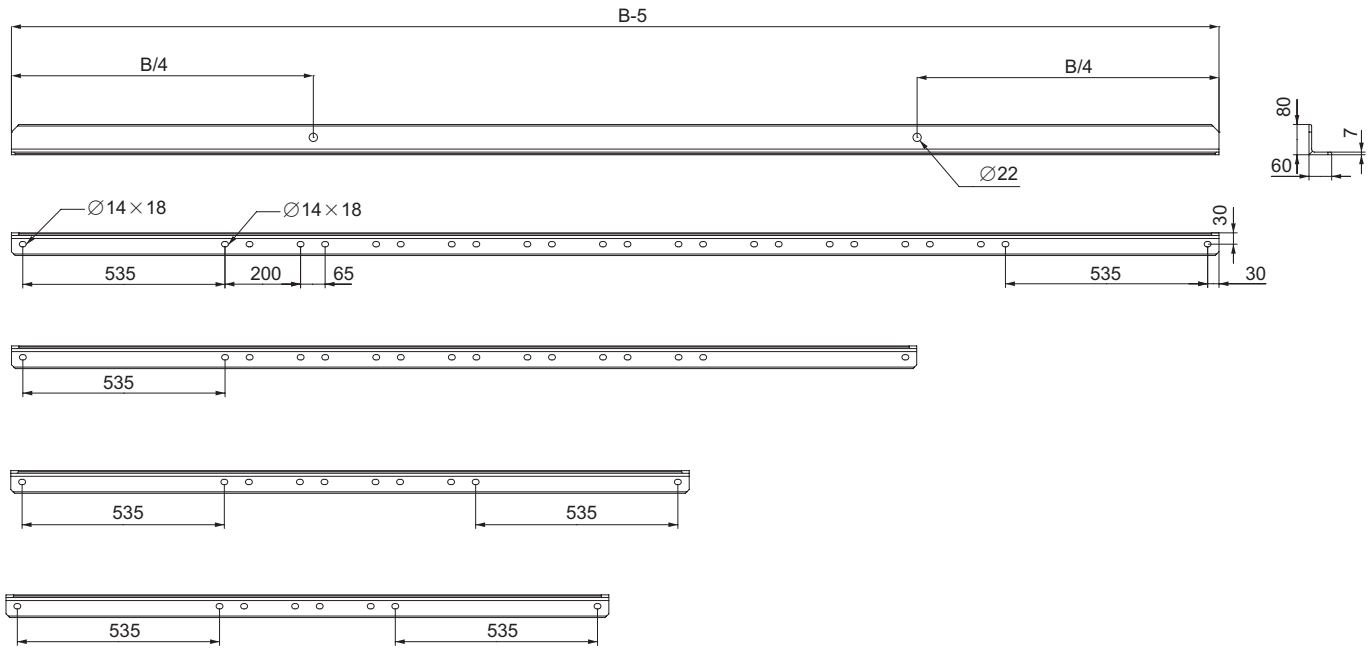
PB500591

Lifting bar

- Set of bars for lifting and transporting enclosures suites. They are fixed to the structure of the enclosure, in the axis of the uprights.
- Recommended to be used for transportation of multiple switchboards (up to 5) with heavy loads installed.
- Material: painted steel.
- Colour: grey.
- Maximum load: according to the lifting bar length (see table below).
- Maximum load per single switchboard: 1000 kg.
- It is necessary to fit shackles (ref. **NSYSFTBS** or equivalent standard type) in the holes of the bars. To be ordered separately.

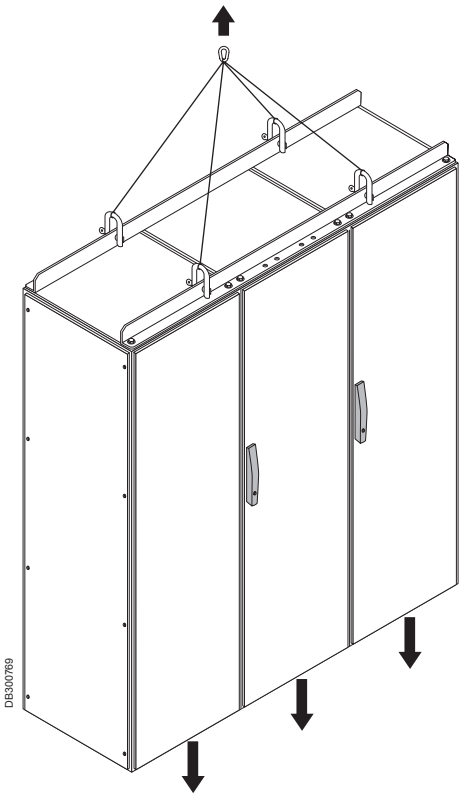
Supply: 2 lifting bars and fixing elements (M12 screws).

Length (mm) (B)	Maximum load (kg)	Maximum amount of assembled enclosures to be lifted	Reference
1600	2000	2	**NSYSFTB16**
1800	3000	3	**NSYSFTB18**
2400	3000	4	**NSYSFTB24**
3200	4000	5	**NSYSFTB32**



Composition accessories
Lifting systems

Recommended lifting points

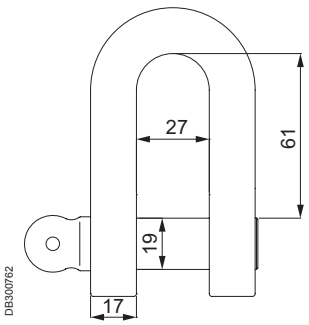


Shackles

- Lifting bar shackles.
- Maximum load: 1600 kg.

Supply: 4 Shackles.

Reference
NSYSFTBS



Composition accessories
Lifting systems

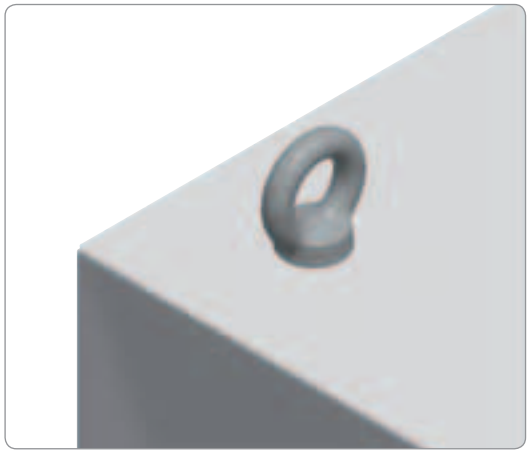
PB500592

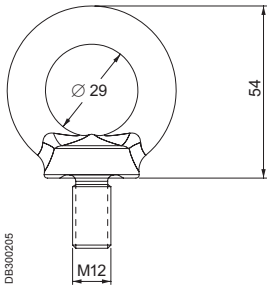
Eyebolts

- Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts.
- Material: galvanised cast steel.
- Maximum load: 340 kg per eyebolt and sling at 60°.

Supply: 4 eyebolts and 4 fixing nuts.

Reference
NSYSMEB


PB500474



DB300205

Composition accessories
Roof

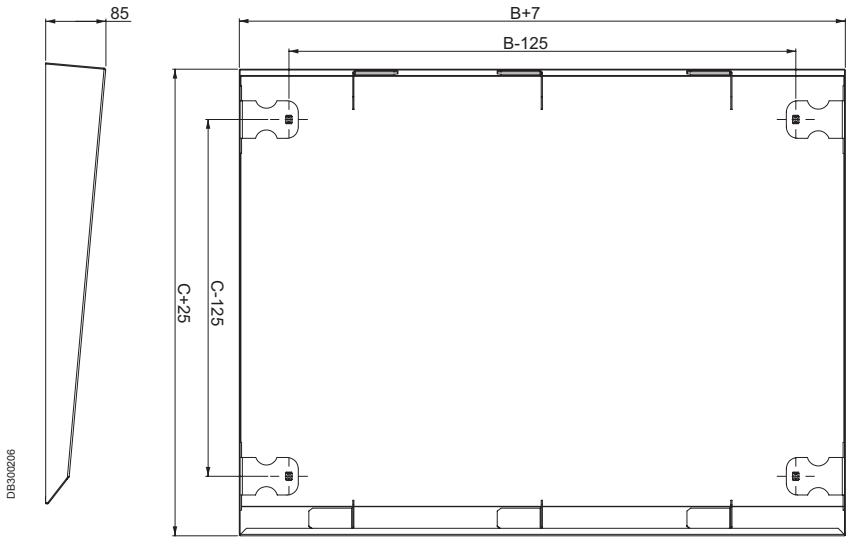
PB500593

Canopy

- Provides excellent protection against splashes from rainwater.
- Highly recommended for outdoor applications.
- **Spacial SF:** fixing by drill holes to be made in the roof of the enclosure.
- **Spacial SM:** fixing by drill holes already made in the roof.
- Material: galvanised steel.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.
- Not compatible with the simultaneous use of lifting elements.
- **Spacial SF:** it is possible to use a single canopy with combinations of enclosure suites (example of a 1600 mm canopy with two coupled 800-mm enclosures).

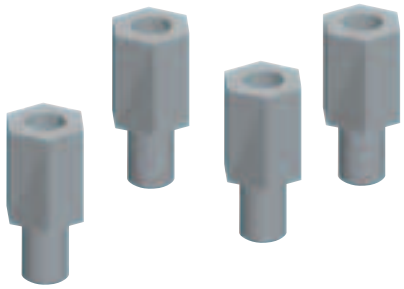
Supply: one canopy, drilling template and fixing elements.

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	300	**NSYSC630**
	400	**NSYSC640**
	500	**NSYSC650**
	600	**NSYSC660**
800	300	**NSYSC830**
	400	**NSYSC840**
	500	**NSYSC850**
	600	**NSYSC860**
1000	300	**NSYSC1030**
	400	**NSYSC1040**
	500	**NSYSC1050**
	600	**NSYSC1060**
1200	300	**NSYSC1230**
	400	**NSYSC1240**
	500	**NSYSC1250**
	600	**NSYSC1260**
1600	400	**NSYSC1640**
	500	**NSYSC1650**
	600	**NSYSC1660**
1800	500	**NSYSC1850**
	600	**NSYSC1860**
2000	500	**NSYSC2050**
	600	**NSYSC2060**
2400	500	**NSYSC2450**
	600	**NSYSC2460**



DB300206

Composition accessories
Roof



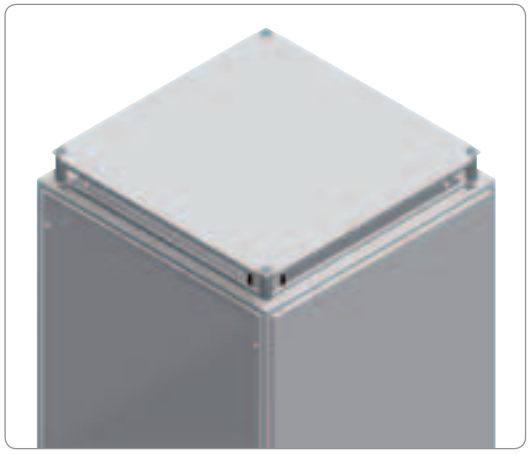
PB500594

Ventilation elevators for roof

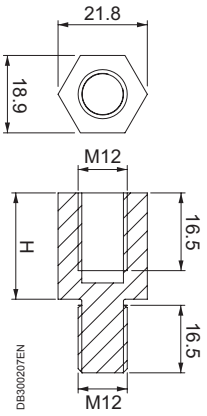
- Allows the roof to be raised, providing natural ventilation.
- They are screwed onto the structure, at the roof fixing point.
- Material: zinc-coated steel.

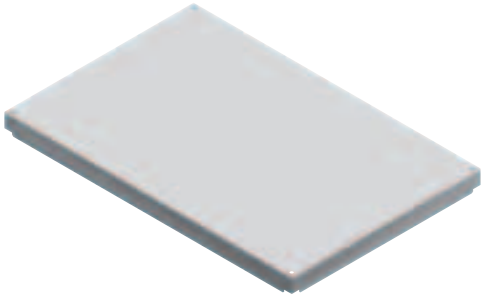
Supply: 4 elevators.

Roof height (mm) (H)	IP	Reference
23	20	**NSYRE26**
60	10	**NSYRE60**



PB500595





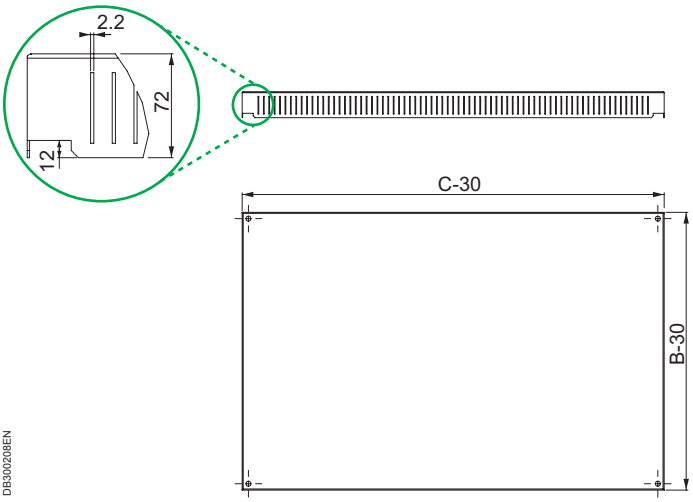
PB500596

Ventilated roof

- Roof providing natural ventilation for the enclosure, with IP30 protection.
- Material: steel.
- Height: an extra 63 mm in relation to the structure.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.

Supply: one ventilated roof and four elevators.

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	600	**NSYSVR606**
	800	**NSYSVR608**
800	600	**NSYSVR806**
	800	**NSYSVR808**



Composition accessories
Roof

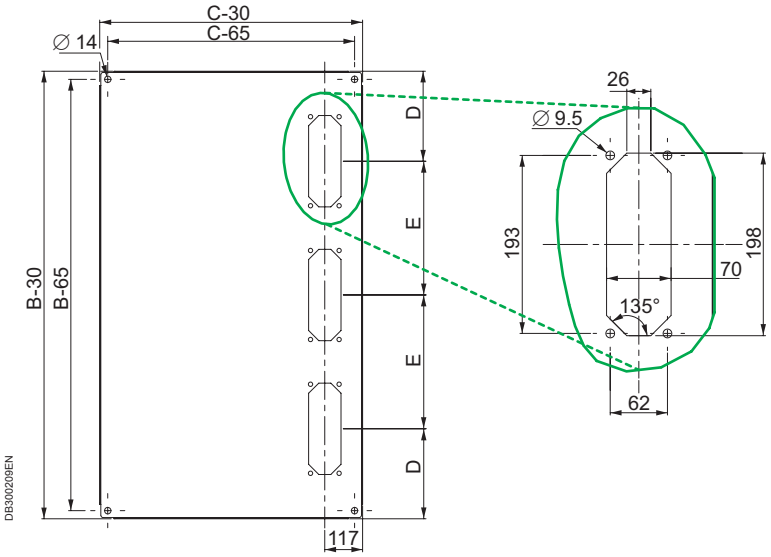
PB500597

FL21 cable-entry roof

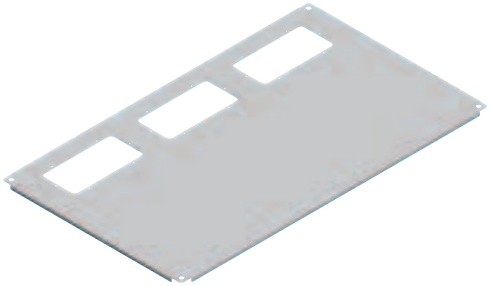
- Roof prepared for installing FL21 cable-entry plates.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

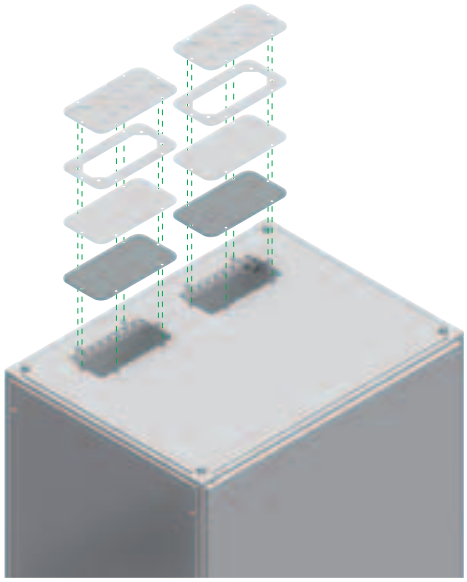
Supply: one cut-out roof for the FL21 cable-entry plates.

Nominal dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	Reference
Width (B)	Depth (C)	D	E		
600	500	285	-	1	NSYSFLR65
	600				NSYSFLR66
800	500	195	-	2	NSYSFLR85
	600				NSYSFLR86
1000	500	195	290	3	NSYSFLR105
	600				NSYSFLR106



Composition accessories
Roof


PB500598

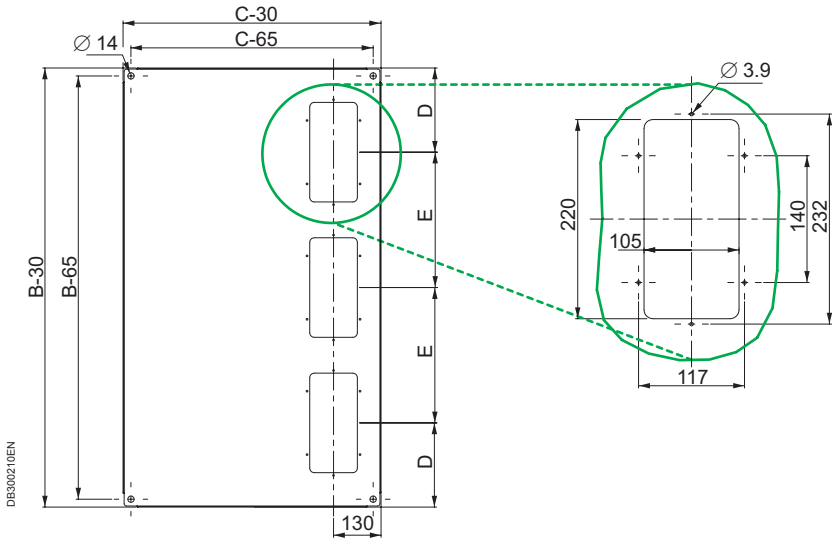

PB500599

Cable-entry roof

- Roof prepared for installing cable-entry plates.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one cut-out roof for the cable-entry plates.

Nominal dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	Reference
Width (B)	Depth (C)	D	E		
600	500	285	-	1	NSYSRCE650
	600				NSYSRCE660
800	500	220	-	2	NSYSRCE850
	600				NSYSRCE860
1000	500	200	285	3	NSYSRCE1050
	600				NSYSRCE1060



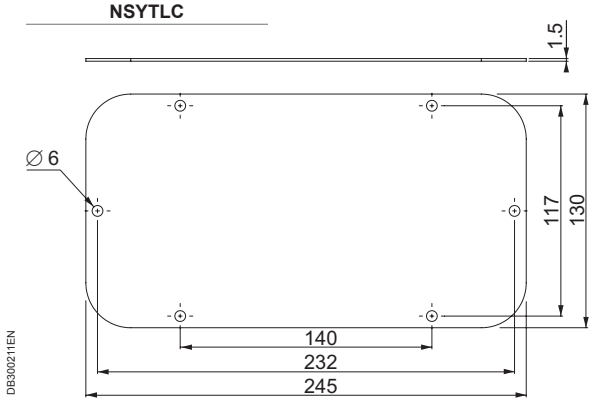
PB500600

Standard cable-entry plate

- Plate with grid patterned surface with a pitch of 25 mm to facilitate perforation. Fixing by means of screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one standard cable-entry plate and fixing elements.

Reference
NSYTLC



Composition accessories
Roof

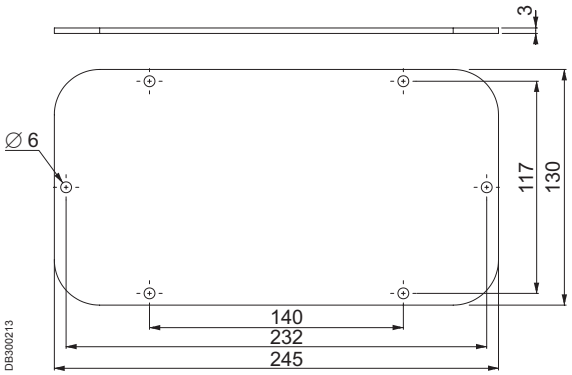
PB500803

Aluminium cable-entry plate

- Plain cable-entry plate. Fixing by means of screws.
- Material: brushed aluminium.
- Thickness: 3 mm.

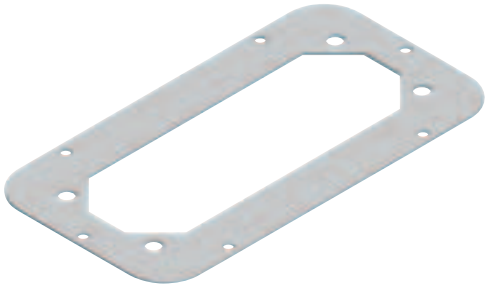
Supply: one aluminium cable-entry plate and fixing elements.

Reference
NSYTLCU



Composition accessories
Roof

PB500604

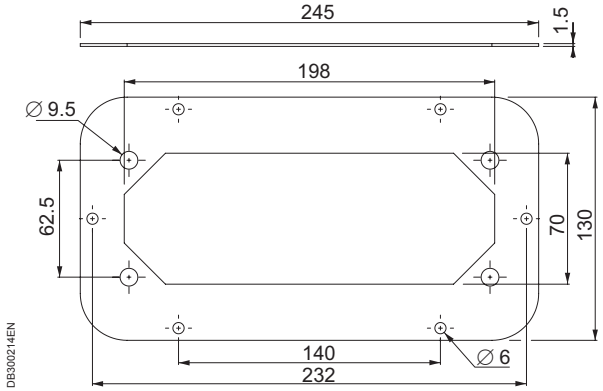


Adapter for FL21 cable-entry plate

- Cut-out adapter for FL21 cable-entry plates. Fixing by means of screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one FL21 cable-entry plate and fixing elements.

Reference
NSYTLCFL



PB500605

PB500606

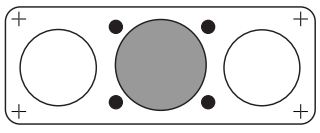
FL21 cable-entry membranes

- Membrane plate for watertight cable entries made from insulating material (fire-resistance level UL94-V0).
- Direct installation in the FL21 cable-entry plate adapter.
- 4 models: plain plate and membrane plates from 7 to 35 cable entries.
- Degree of protection: IP65.
- Material: grey plastic.

Supply: membrane plate and fixing elements.

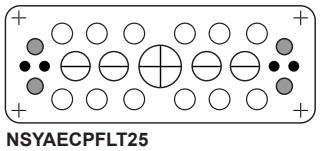
No. of cable entries	Reference
Plain	NSYAECPFLBP
7	NSYAECPFLT7
25	NSYAECPFLT25
35	NSYAECPFLT35

DB300215



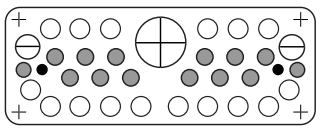
NSYAECPFLT7

DB300216



NSYAECPFLT25

DB300217



NSYAECPFLT35

Characteristics of the membranes

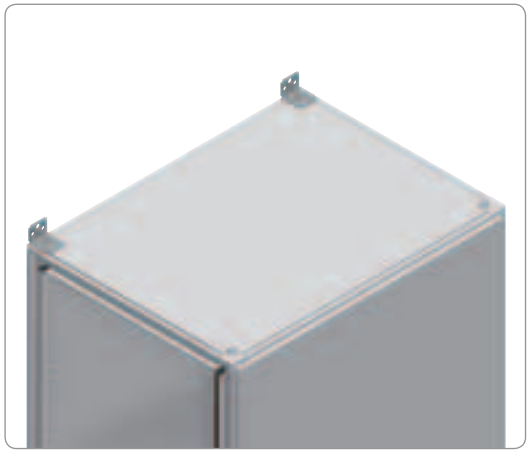
Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	8-16	4	65	-
○	24-54	2	65	-
◍	30-60	1	65	-

Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	5-7	4	65	-
◍	6-12	1	65	-
○	10-14	12	65	-
⊖	14-20	4	65	8-12
⊕	20-26	1	65	8-12

(1) IP54 in this use.

Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	6-10	2	65	-
◍	8-12	14	65	-
○	10-14	16	65	-
⊖	12-18	2	65	-
⊕	17-32	1	65	-

Composition accessories
Wall-mounting

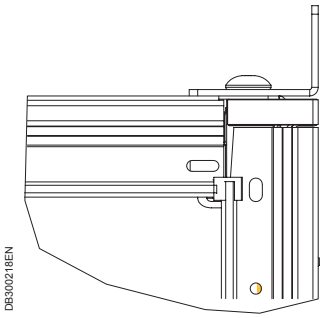

PB500907

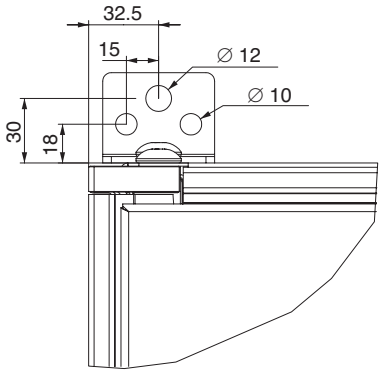
Wall-mounting support

- Supports for mounting the enclosure on the wall and preventing it from turning over.
- They cannot be used for hanging the enclosure.
- They are installed using the roof mounting screws.
- Material: zinc-coated steel.

Supply: 2 supports.

Reference
NSYSFWFIX


DB300218EN



Composition accessories
Wall-mounting

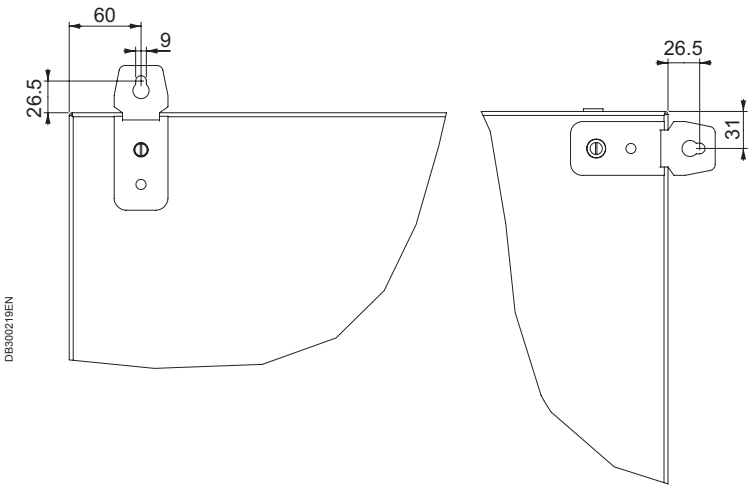
PB500608

Wall-mounting support

- Supports for mounting the enclosure on the wall and preventing it from turning over.
- They are installed using the drill holes in the back of the enclosure.
- Enclosure fixed from the outside.
- Material: steel.
- Finish: zinc-coated.

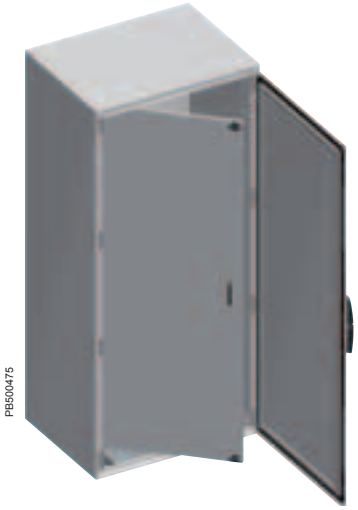
Supply: 2 supports.

Reference
NSYSMWFIX



DB300219EN

Composition accessories
Door and door accessories

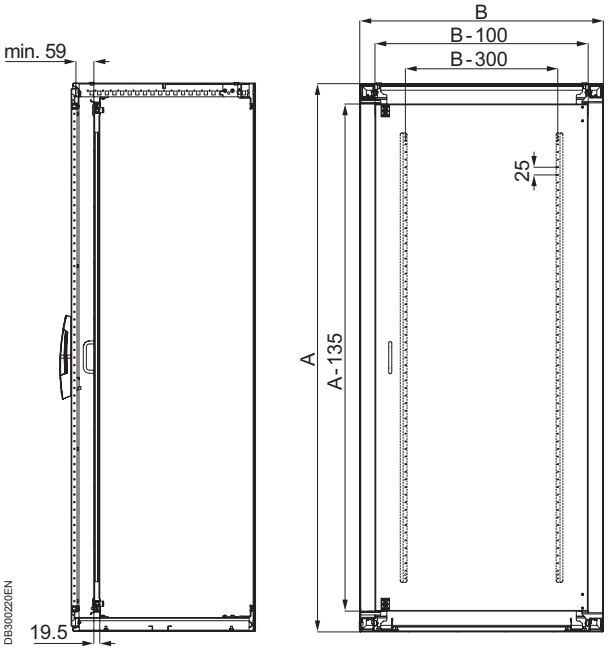


Inner door

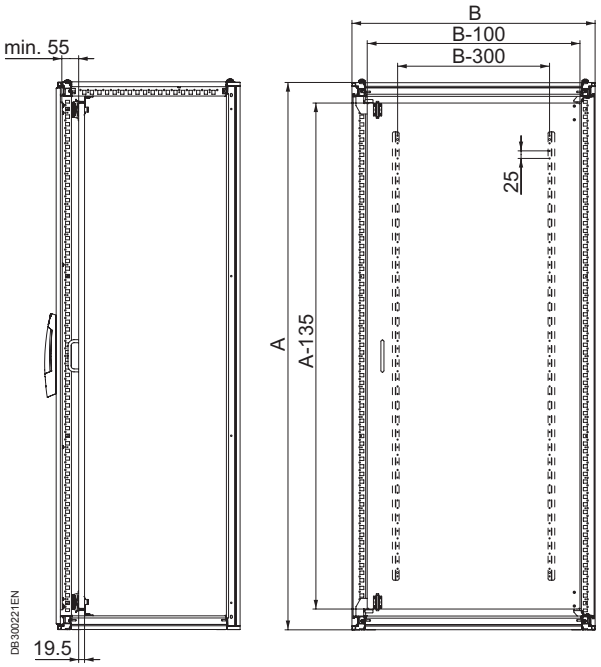
- Door for additional protection. Prevents the switchgear from being manipulated by unauthorised personnel.
- Allows the installation of switchgear mounted directly on the door.
- Mounting on the top and bottom frame of the enclosure.
- Depth adjustable with a pitch of 25 mm, from the first fixing point.
- Opening to right or left, with two locks, 3-mm double-bar, with central handle.
- Reinforcement frames on the rear, cut-outs with a 25-mm pitch, for equipping the door.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.
- Maximum acceptable load: 15 kg.

Supply: one inner door and fixing elements.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
1600	600	**NSYID166**
	800	**NSYID168**
1800	600	**NSYID186**
	800	**NSYID188**
	1000	**NSYID1810**
2000	600	**NSYID206**
	800	**NSYID208**
	1000	**NSYID2010**
2200	600	**NSYID226**
	800	**NSYID228**



Spacial SM



Spacial SF

Composition accessories
Door and door accessories

> Advantage:

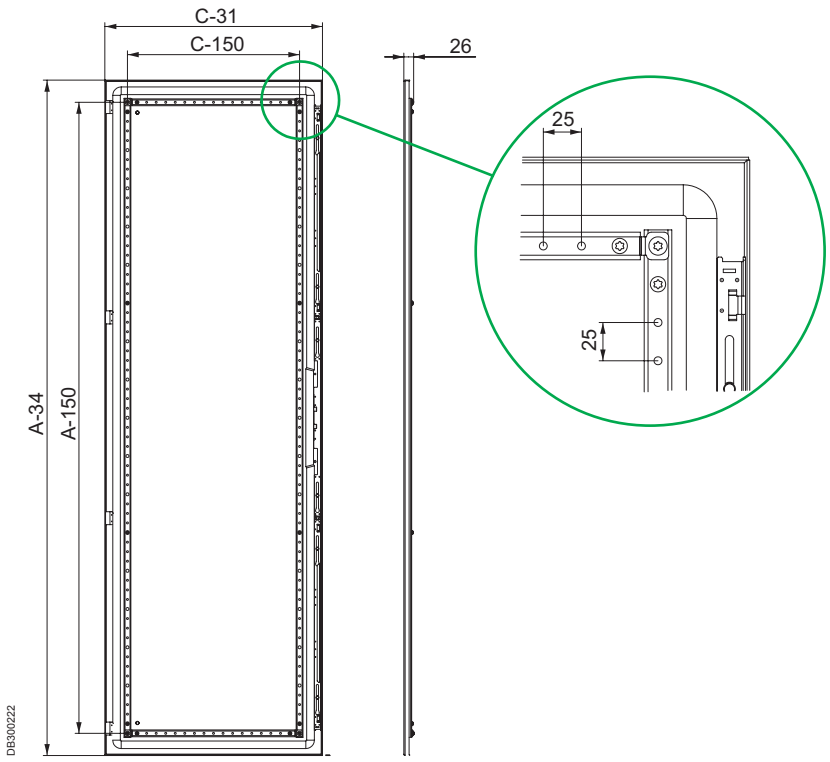
The side door is the same as the front door when the width and depth dimensions are the same.

Side door

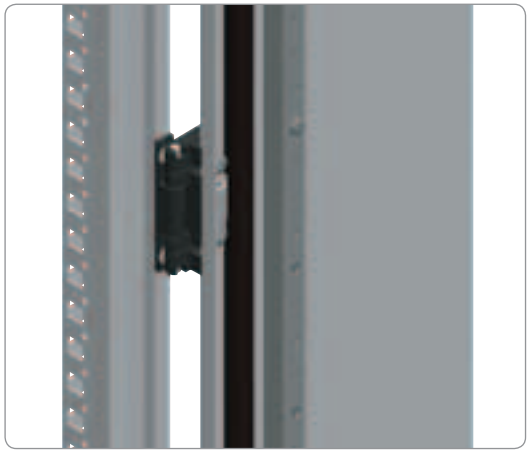
- Door for the side of the enclosure, replaces the side panel.
- Installation directly on the structure of the enclosure, opening 120°.
- Lock with handle and 5-mm double-bar insert.
- 4 locking points.
- Reinforcement frame, cut-out with a pitch of 25 mm.
- Opening to right or left.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one side door, four hinges, four catches and handle lock.

Spacial SF dimensions (mm)		Reference
Height (A)	Depth (C)	
1200	600	**NSYSFD126**
	800	**NSYSFD128**
1400	600	**NSYSFD146**
	800	**NSYSFD148**
1600	600	**NSYSFD166**
	800	**NSYSFD168**
1800	400	**NSYSFD184**
	500	**NSYSFD185**
	600	**NSYSFD186**
	800	**NSYSFD188**
2000	400	**NSYSFD204**
	500	**NSYSFD205**
	600	**NSYSFD206**
	800	**NSYSFD208**
2200	400	**NSYSFD224**
	500	**NSYSFD225**
	600	**NSYSFD226**
	800	**NSYSFD228**



Composition accessories
Door and door accessories

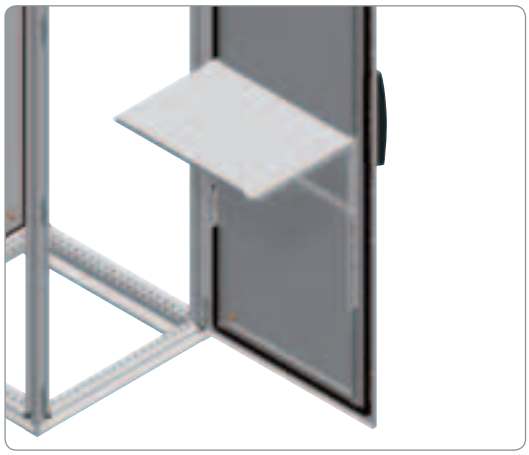

PB500610

180° hinge

- Hinge with opening of 180°.
- Intended to replace the 120° hinges installed as standard.
- They are compatible with the transparent door and can be installed even with enclosure suites.
- Material: aluminium and zamak.
- Maximum load: 60 kg on the door.
- Finish: painted RAL 9005 black.

Supply: 4 hinges, template for making the drill holes and fixing elements.

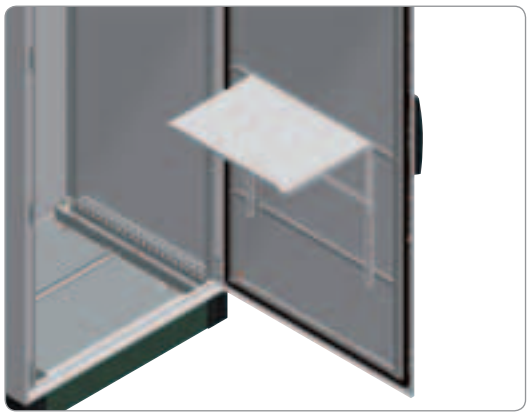
Model	Reference
RAL 9005 black	**NSYSH180**


PB500611

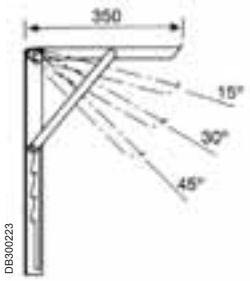
Folding support tray

- Adjustable horizontal support for laptop computers, documents or any other element.
- Installation on the reinforcement frame of the door.
- Can also be installed on the door cross rails, see page **470**.
- Adjustable depth with a pitch of 25 mm.
- In enclosures with a width of 1000 mm, it is possible to install any size using the door cross rail with reference **NSYSDCR10**.
- 4 positions: 45°, 60°, 75° and 90°.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.
- Maximum load: 30 kg.

Supply: one folding support tray and fixing elements.


PB500612

Spacial Dimensions (mm) Width	Reference
500	**NSYSDT5**
600	**NSYSDT6**
800	**NSYSDT8**



DB300223

Composition accessories
Door and door accessories

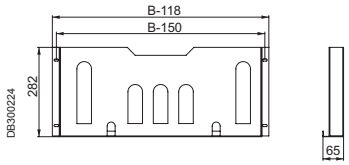
PB500485

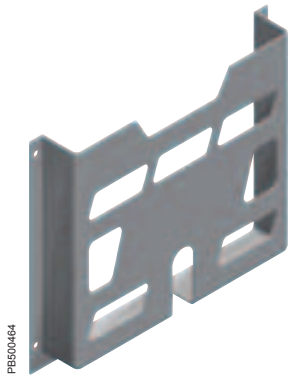
Metal document pocket

- Direct mounting on the reinforcement frame of the door.
- Adjustable depth with a pitch of 25 mm.
- Material: steel.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.

Supply: one metal document pocket and fixing elements.

Spacial Dimensions (mm) Width (B)	Reference
600	**NSYSDP6M**
800	**NSYSDP8M**



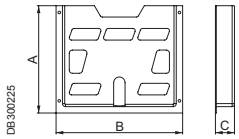

PB500464

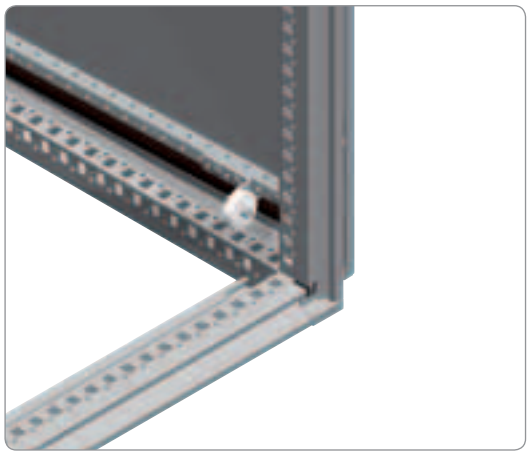
Plastic document pocket

- Attachment by adhesive tape.
- Formats: A5 and A4.
- Material: polystyrene (PS), RAL 7035 grey.

Supply: one plastic document pocket.

Document format (mm)	A	B	C	Reference
A5	174	188	22	**NSYDPA5**
A4	234	278	22	**NSYDPA4**
A4	234	278	40	**NSYDPA44**
A3	258	476	35	**NSYDPA3**




PB500613

Door-centring caster

- Allows the door to be raised when closing.
- Direct mounting on the reinforcement frame.
- Maximum load: 60 kg.

Supply: one centring roller and fixing elements.

Reference
NSYSDRC

Composition accessories
Locking system

Handle for shape inserts and cylindrical barrels

- Handle lock allowing the door to be opened: with a single movement.
- Standard handle for the entire range of **Spacial SF** and **Spacial SM** enclosures; does not include the insert when ordered as an accessory.
- Easy and quick installation of inserts without needing screws.
- Allows the installation of shape inserts and cylindrical barrels.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Easy fixing by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:

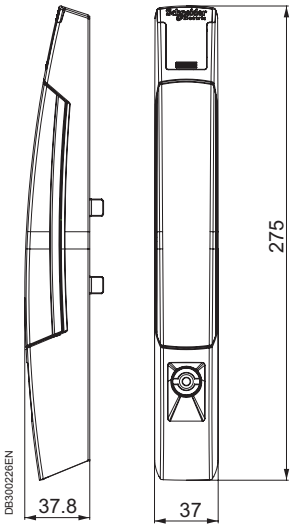
– Handle: polyamide 6 with 30% fibreglass, RAL 9005 black.
– Label frame: polycarbonate.

- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

Supply: standard handle and fixing elements (insert not included).

> Advantage:
Easy opening.

Reference
NSYSFHS1



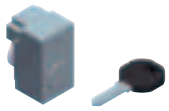
Composition accessories
Locking system

Shape inserts and cylindrical barrels

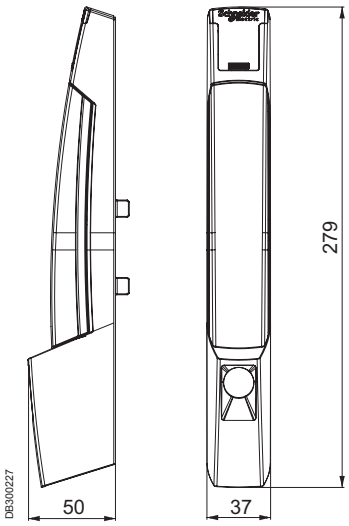
Shape inserts		Reference
PB500614	6-mm square insert	NSYINS61
	Female 6-mm square insert	NSYINS6G1
	7-mm square insert	NSYINS71
	8-mm square insert	NSYINS81
	Female 8-mm square insert	NSYINS8G1
	8-mm square insert with slot	NSYINS8H1
	6.5-mm triangular insert	NSYINT61
	7-mm triangular insert	NSYINT71
	8-mm triangular insert	NSYINT81
	9-mm triangular insert	NSYINT91
	10-mm triangular insert	NSYINT101
	10-mm keyless hexagonal insert	NSYINH31
	3-mm double-bar insert	NSYINDB31
	5-mm double-bar insert	NSYINDB51
	Daimler Benz insert	NSYINBENZ1
	Fiat insert	NSYINFIAT1
	Keyless USA slot insert	NSYINUSA1
	Keyless 2 x 4 slot insert	NSYIN241
	Crown insert	NSYINCW1

Push button		Reference
PB500615	Push button	NSYINPULS1

> For installing shape inserts and cylindrical barrels in handle types DIN, KABA and ASSA (ref. **NSYSFHD2**), see adapter (ref. **NSYLADP**) page **167**.

Cylindrical barrels		Reference
 PB500616	405E key lock	NSYIN405E1
	421E key lock	NSYIN421E1
	455 key lock	NSYIN4551
	1242E key lock	NSYIN1242E1
	1332E key lock	NSYIN1332E1
	2124E key lock	NSYIN2124E1
	2131A key lock	NSYIN2131A1
	2132A key lock	NSYIN2132A1
	2331A key lock	NSYIN2331A1
	2433A key lock	NSYIN2433A1
	2452E key lock	NSYIN2452E1
	3113A key lock	NSYIN3113A1
	3122E key lock	NSYIN3122E1
	3123A key lock	NSYIN3123A1
	3133A key lock	NSYIN3133A1
	3422E key lock	NSYIN3422E1
	3432E key lock	NSYIN3432E1
	EDF1300 key lock	NSYINF1301
	EDF1400 key lock	NSYINF1401
	Michelin 8079 keyless lock	NSYINICHEL8791
	Michelin 8133 keyless lock	NSYINICHEL8131
	Michelin 8376 keyless lock	NSYINICHEL8371
	E1 keyless lock	NSYINE11

Composition accessories
Locking system



Handle for insert types DIN, KABA, ASSA

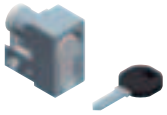
- Easy-opening handle lock: requires a single movement.
- The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:

– Handle: polyamide 6 with 30% fibreglass, RAL 9005 colour.
– Label frame: polycarbonate.

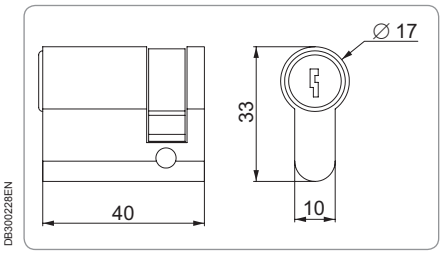
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

Supply: one handle for DIN, KABA and ASSA inserts and fixing elements (insert not included).

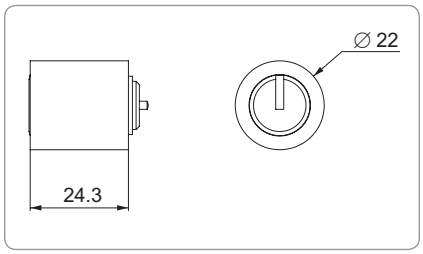
Reference
NSYSFHD2

Lock system: DIN, KABA and ASSA		Reference
PB500617	Adapter for DIN cylinder	**NSYINDIN2**
	Adapter for KABA cylinder (1)	**NSYINKBA2**
	Adapter for ASSA cylinder	**NSYINASSA2**
 PB500618	1242E key lock	**NSYIN1242E2**
	Reinforced key lock	**NSYINKR2**
	JIS key lock	**NSYINKJIS2**
	FAC key lock	**NSYINKFAC2**

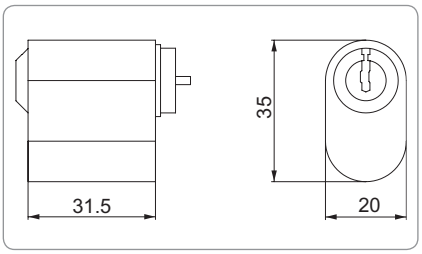
(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.



Insert dimensions for DIN adapters.

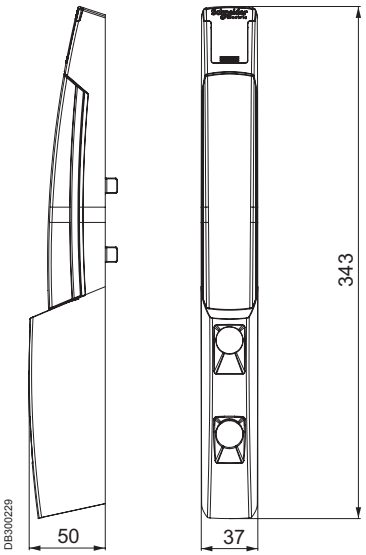


Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.

Composition accessories
Locking system



Double-insert handle

- Easy-opening handle lock: requires a single movement. Allows two inserts to be installed in the same lock.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- The handle can perform the "AND" and "OR" functions. The elements for performing these functions are supplied with the handle.

– "AND" function: one insert blocks the activation of the other insert.
– "OR" function: either insert can release the handle.

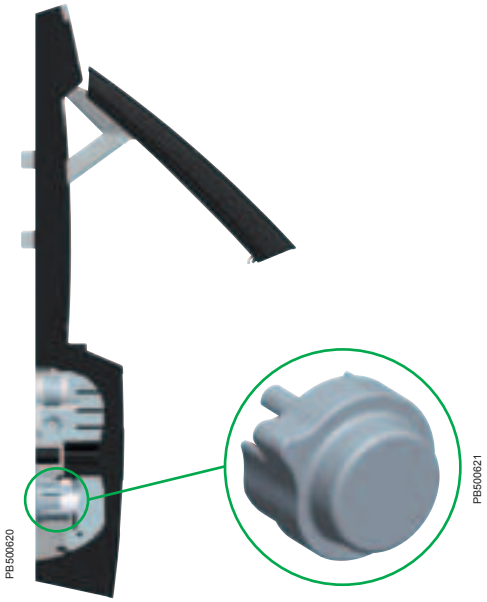
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:

– Handle: polyamide 6 with 30% fibreglass, RAL 9005 colour.
– Label frame: polycarbonate.

- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

Supply: one double-insert handle, elements for performing the "AND" and "OR" functions and fixing elements (insert not included).

Reference
NSYSFHD3



Adapter for shape inserts and cylindrical barrels

- Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA.

Supply: 1 unit.

- See shape inserts and cylindrical barrels on page **165.**
- See insert types DIN, KABA, ASSA on page **166**.

Reference
NSYLADP

Composition accessories
Locking system

PB500622

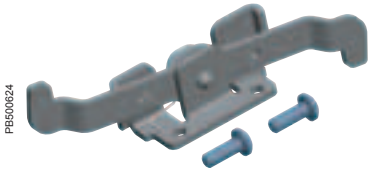
PB500623

Padlock locking

- Padlock locking system, for installation in all the handles of the **Spacial SF** and **Spacial SM** enclosures.
- Bolt with 7.5-mm drill hole.

Supply: one cut-out handle, bolt for padlock and bolt fixing screw.

Reference
NSYBLKH123


PB500624

CNOMO kit

- Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing the handle from closing while the door is still open.
- It is compatible with all handle lock versions, except the flat lock and the small flat lock.

PB500625

Supply: one mechanism, 6.5-mm triangular insert, key and fixing elements.

Reference
NSYCNOH123

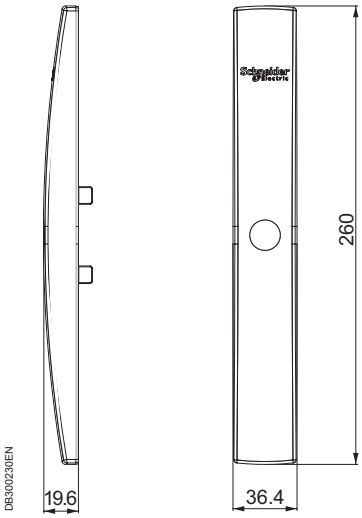
Composition accessories
Locking system

PB500626

Flat escutcheon lock

- Optional flat escutcheon lock. Replaces the handle lock.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Possibility of changing the turning direction of the insert.
- Material: polyamide 6 with 30% fibreglass, RAL 9005 black.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

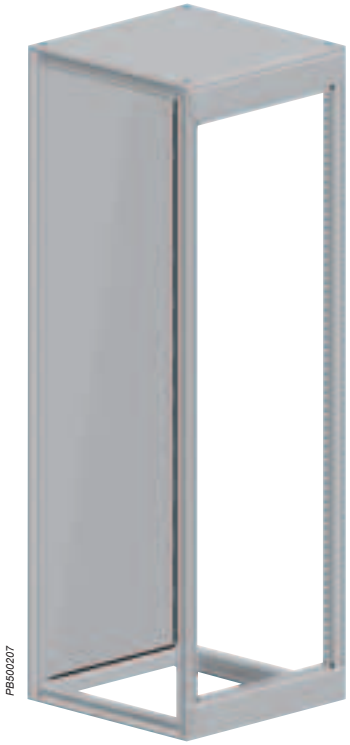
Supply: flat lock, shape insert, key and fixing elements.

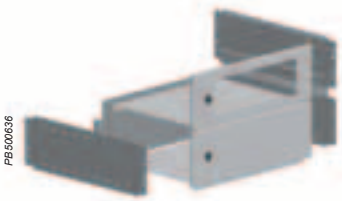


DB3002230EN

	Models	Reference
PB500627	Flat lock + screwdriver slot, 2-mm groove	**NSYSFLOCK24**
PB500628	Flat lock + 8-mm triangular insert	**NSYSFLOCKT8**
PB500629	Flat lock + 7-mm triangular insert	**NSYSFLOCKT7**
PB500630	Flat lock + 6.5-mm triangular insert	**NSYSFLOCKT6**
PB500631	Flat lock + 8-mm female square insert	**NSYSFLOCKSG8**
PB500632	Flat lock + 8-mm square insert	**NSYSFLOCKS8**
PB500633	Flat lock + 7-mm square insert	**NSYSFLOCKS7**
PB500634	Flat lock + 6-mm square insert	**NSYSFLOCKS6**
PB500635	Flat lock + 5-mm double-bar insert	**NSYSFLOCKDB5**

Compartimentalised enclosure
Composition accessories





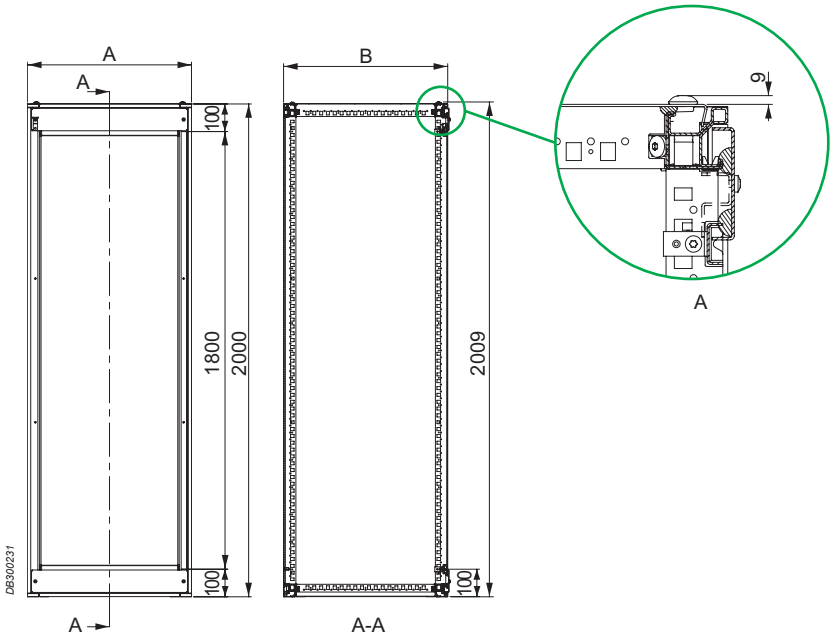
Compartmentalised enclosure application

- The compartimentalised enclosure separates the various working areas, restricting their access.
- The closed compartments make it possible:

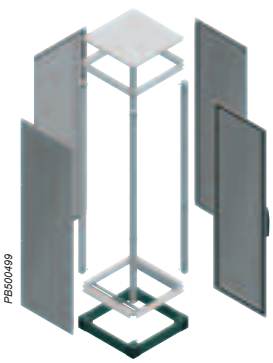
– To insulate the control of a device mechanically and electrically.
– To reduce the destructive effects of a short-circuit.

Composition

- Structure: top and bottom frame and vertical uprights.
- Fixed panels: top and bottom, to allow modularity.
- 2 intermediate crossbars.
- Removable roof.
- External fixing rear panel.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



External dimensions (mm)			Useful height for doors (mm)	Reference
Height	Width (B)	Depth (C)		
2000	600	600	1800	NSYSF20660M
		800	1800	NSYSF20680M
	800	600	1800	NSYSF20860M
		800	1800	NSYSF20880M



Enclosure cladding accessories, see page **171**.

Equipment support accessories, see page **178**.

Optional composition accessories, see page **129**.

Compartimentalised enclosure
Composition accessories

PB500114

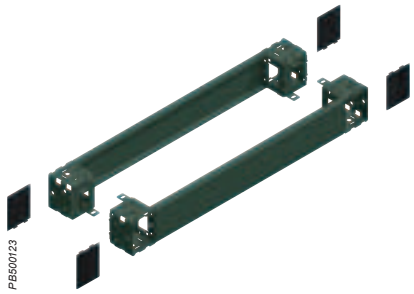
Standard side panels

External fixing

- Set of 2 side panels fixed to the outside of the enclosure.
- Captive screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side panels with external fixing, supplied with sealing gasket.

Spacial SF dimensions (mm)		Reference
Height	Depth	
2000	600	NSY2SP206
	800	NSY2SP208


PB500123

Plinth

- See composition accessories: floor, page **129**.
- Model heights: 100 and 200 mm.

Front plinth

Supply:
– **Height 100 mm:** 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements.
– **Height 200 mm:** 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.

PB500124

Plinth side panels

Supply:
– **Height 100 mm:** two side panels, four corner covers and fixing elements.
– **Height 200 mm:** four side panels (height of 100 mm, 2 for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200
800	600	NSYSPF8100	NSYSPF8200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200

Compartimentalised enclosure
Composition accessories

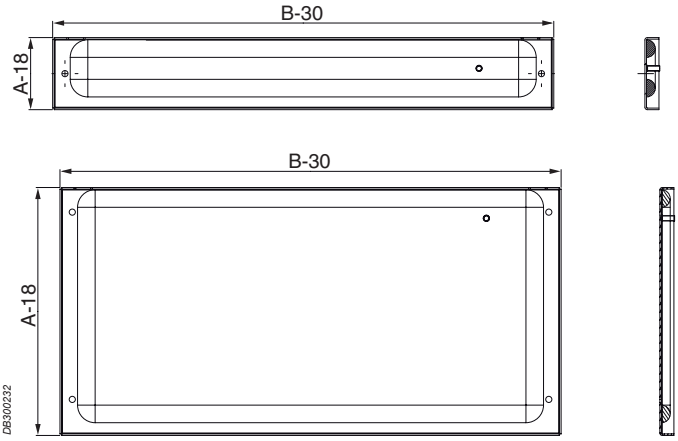
PB500637

Fixed panel for modularity

- Panel fixed to the structure of the enclosure by means of screws.
- Recommended for enclosure kits.
- It is installed at the top and bottom of the enclosure, to obtain the modularity required to install partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two panels and fixing elements.

Spacial SF dimensions (mm)		Reference
Height (A)	Width (B)	
100	600	NSYMFP16
	800	NSYMFP18
300	600	NSYMFP36
	800	NSYMFP38



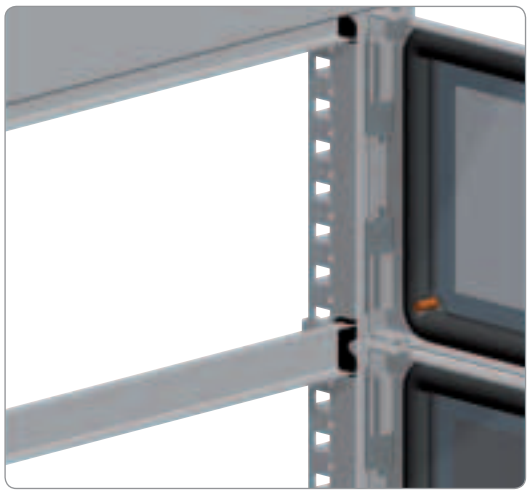
PB500638

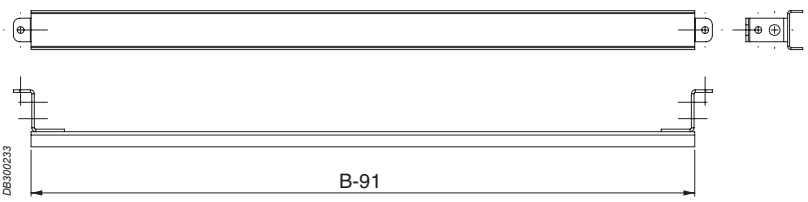
Intermediate crossbar

- Crossbar with direct fixing to the structure.
- It is mounted between partial doors or between doors and control desk, guaranteeing good sealing.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

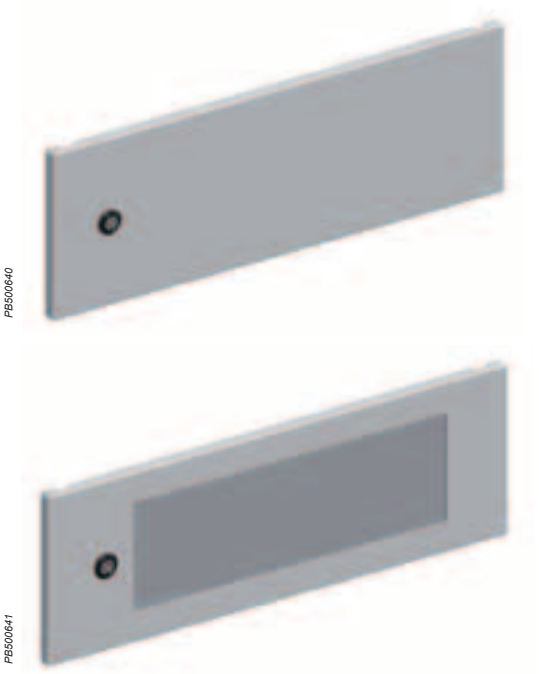
Supply: 6 crossbars and fixing elements.

Spacial SF Dimensions (mm)	Reference
Width (B)	
600	NSYMIC6
800	NSYMIC8


PB500639



Compartimentalised enclosure
Composition accessories


PB500640

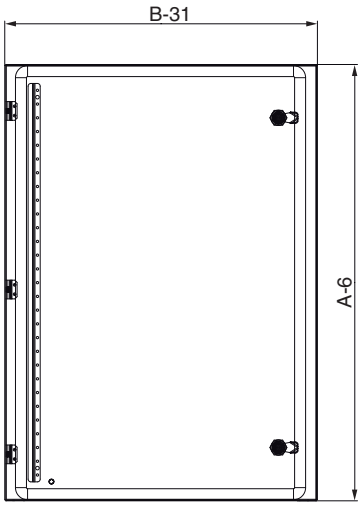
PB500641

Partial doors

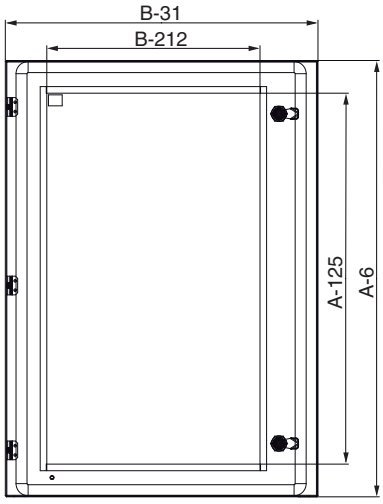
- Two partial door versions:
– Plain partial door IK10.
– Transparent partial door with Securit® glass IK8.
- They are fixed to the uprights of the structure by means of hinges.
- Locking system with small flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5 mm double-bar metal insert.
- 1 locking point for doors with heights of 200 mm and 2 locking points for doors with heights from 400 to 1000 mm.
- Opening to the right or left.
- 1 vertical reinforcement frame, cut-out with a pitch of 25 mm; except doors with a height of 200 mm.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: partial door, hinges and fixing elements.

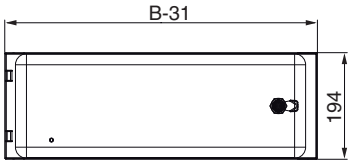
Spacial SF dimensions (mm)		Plain partial door reference	Transparent partial door reference
Height (A)	Width (B)		
200	*600*	**NSYMPD26**	**NSYMPD26T**
400		**NSYMPD46**	**NSYMPD46T**
600		**NSYMPD66**	**NSYMPD66T**
800		**NSYMPD86**	**NSYMPD86T**
1000		**NSYMPD106**	**NSYMPD106T**
200	*800*	**NSYMPD28**	**NSYMPD28T**
400		**NSYMPD48**	**NSYMPD48T**
600		**NSYMPD68**	**NSYMPD68T**
800		**NSYMPD88**	**NSYMPD88T**
1000		**NSYMPD108**	**NSYMPD108T**



Heights from 400 to 1000 mm.



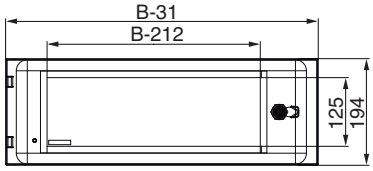
Heights from 400 to 1000 mm.



DB300234

Height 200 mm

Plain partial door.



DB300235

Height 200 mm

Transparent partial door.

Compartimentalised enclosure
Composition accessories

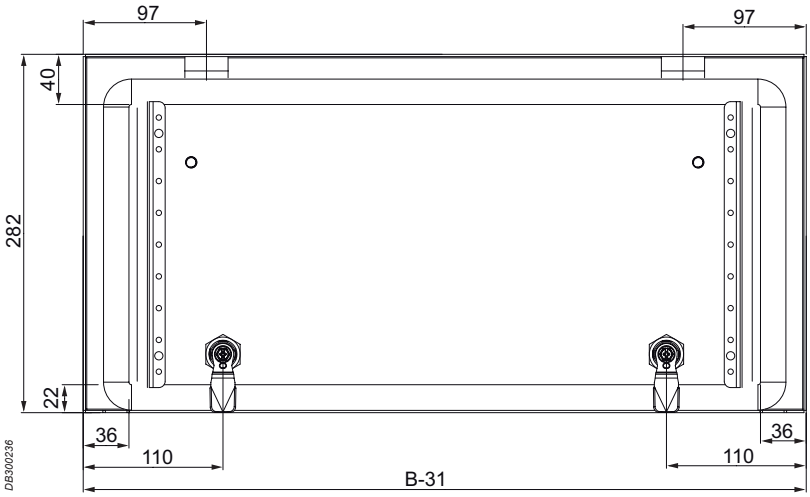
PB500642

Folding panels

- Horizontal panel, hinged at the top.
- Guarantees protection of the sets of bars.
- Opening angle: 110º.
- It is installed together with partial doors to create the modularity of the enclosure.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Locking system with two small flat escutcheons, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5-mm double-bar insert.

Supply: one folding panel, hinges and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width (B)	
300	600	NSYCDP36
	800	NSYCDP38



Compartimentalised enclosure
Composition accessories

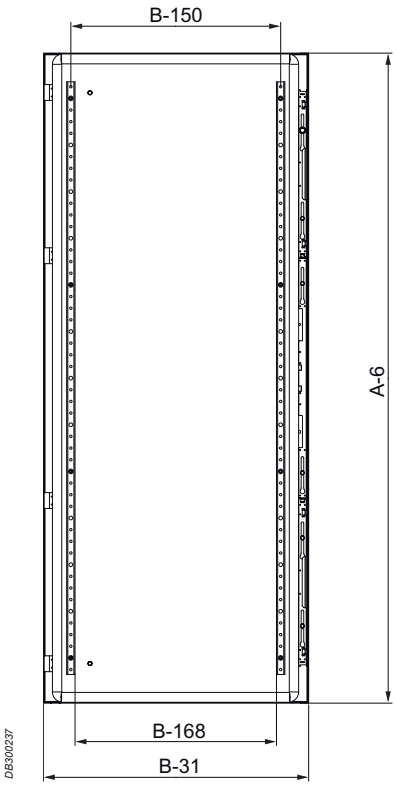
PB500643

Partial door for folding panel

- Can be combined with folding panels and with the rest of the partial doors.
- Plain partial doors with handle lock with 5-mm double-bar insert.
- 4 locking points and 4 hinges.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

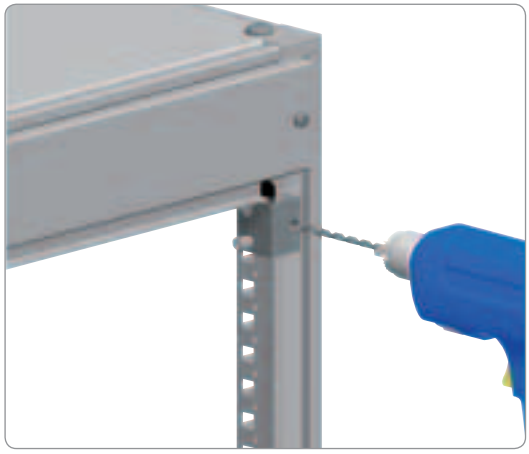
Supply: one partial door, hinges and catches of the locking system.

Nominal dimensions (mm)		Plain partial door reference
Height (A)	Width (B)	
1200	*600*	**NSYMPD126**
1400		**NSYMPD146**
1600		**NSYMPD166**
1200	*800*	**NSYMPD128**
1400		**NSYMPD148**
1600		**NSYMPD168**



DB300237

Compartimentalised enclosure
Composition accessories


PB500644

Drilling template

- Guide for drilling the vertical uprights, prior to installing the partial doors.
- It can be reused.
- Material: zinc-coated steel.

Supply: one template.

Reference
NSYMDT

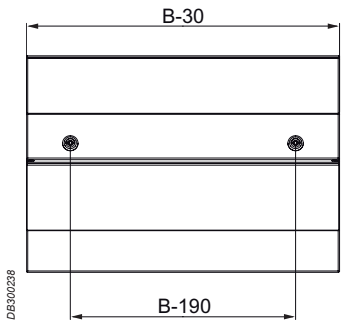
PB500645

Control desk

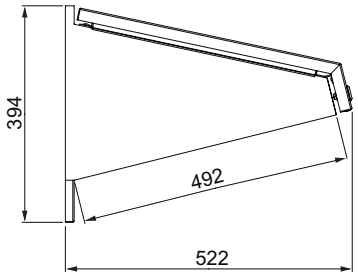
- Support for human-machine dialogue.
- It is fixed directly to the structure of the enclosure and can be inserted the same as the partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Locking system with small flat escutcheons, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5-mm double-bar metal insert.

Supply: one control desk and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width (B)	
400	*600*	**NSYMCOD264**
	800	**NSYMCOD284**



DB300238



Compartimentalised enclosure
Composition accessories

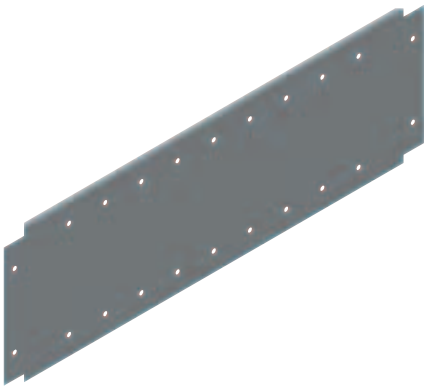
Locks

- Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.

Type of lock	Insert reference	Key reference
3 mm double bar	**NSYTDBCRN***	**NSYLDB5**
☐ *6 mm*	**NSYTC6CRN**	**NSYLC7**
☐ *7 mm*	**NSYTC7CRN**	**NSYLC7**
☐ *8 mm*	**NSYTC8CRN**	**NSYLC8**
△ *6.5 mm*	**NSYTT6CRN**	**NSYLT8**
△ *7 mm*	**NSYTT7CRN**	**NSYLT8**
△ *8 mm*	**NSYTT8CRN**	**NSYLT8**

**Delivered with 1 metal key*

Compartimentalised enclosure
Mounting accessories


PB500648

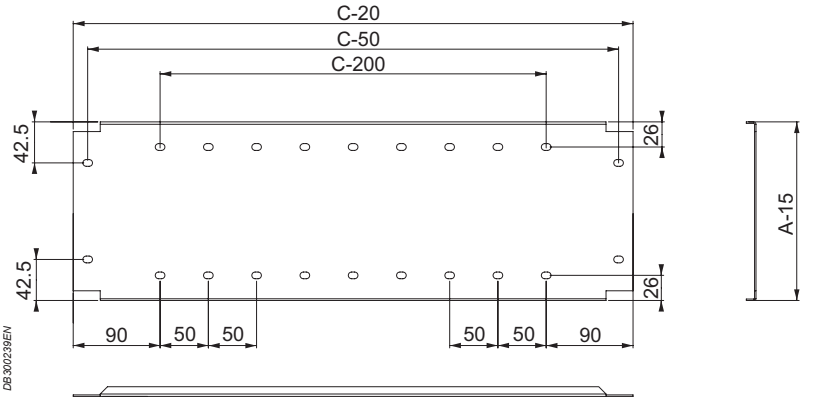
Side partitions

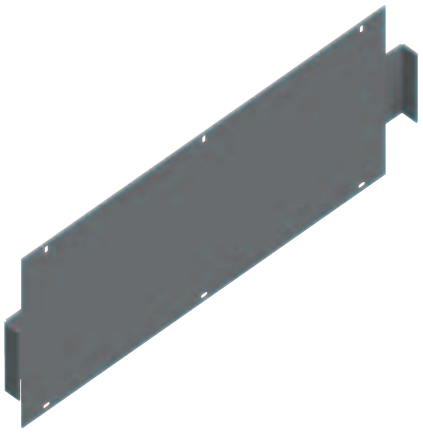
- Side partitions which guarantee good insulation of the compartments.
- Direct fixing on the structure of the enclosure.
- Material: galvanised steel.

Supply: two side partitions panels of 400 mm height. Four side partitions panels of 200 mm heigh. Fixing elements included.

Nominal dimensions (mm)		Reference
Height (A)	Depth (C)	
200	600	NSYMSC26
	800	NSYMSC28
400	600	NSYMSC46
	800	NSYMSC48

PB500649



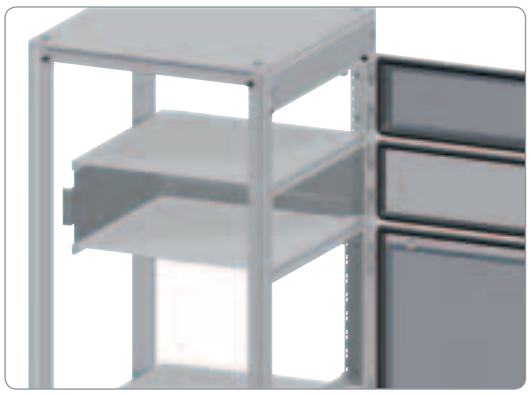

PB500650

Rear partitions

- Rear enclosing plates for forming modules, also allowing the installation of equipment.
- They are installed at the rear of the partition tray.
- Material: galvanised steel.

Supply: two rear partitions and fixing elements.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
200	600	NSYMBC26
400		NSYMBC46
600		NSYMBC66
800		NSYMBC86
1000		NSYMBC106
200	800	NSYMBC28
400		NSYMBC48
600		NSYMBC68
800		NSYMBC88
1000		NSYMBC108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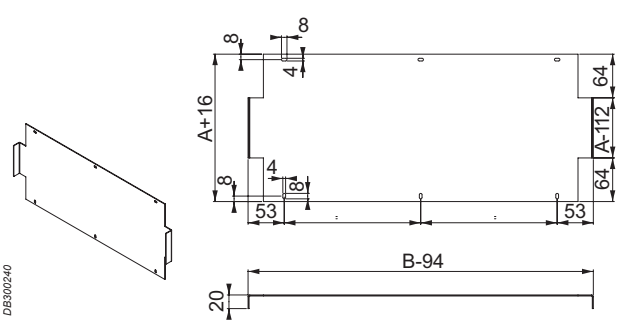
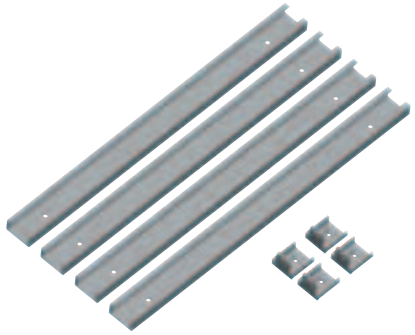


Compartimentalised enclosure
Mounting accessories


PB500652

Fixing kit

- Provide the fixing of the mounting plate.
- They are fixed to the side enclosing plates.
- Models:

– Fixed: allow adjustment with a pitch of 50 mm.
– Adjustable: allow continuous adjustment for depths of 600 and 800 mm.

- Material: zinc-coated steel.

Supply: four units and fixing elements.

Model	Nominal dimensions (mm)	Reference
	Depth	
Fixed	-	**NSYCFIX**
Adjustable	*600*	**NSYCFIX6**
Adjustable	*800*	**NSYCFIX8**

PB500653

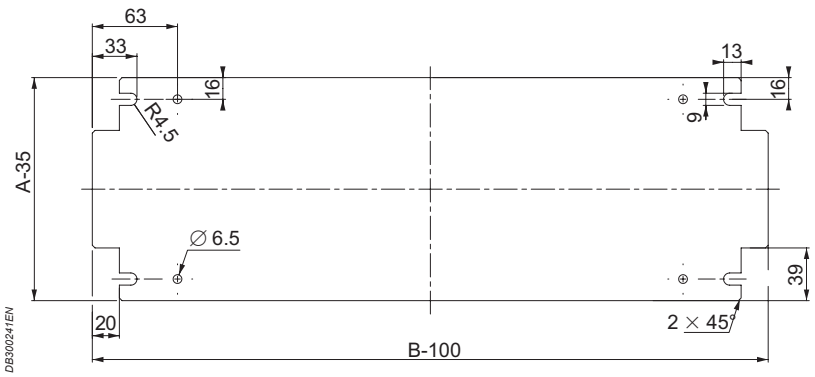
Mounting plate

- Plate for fixing elements.
- It is mounted fixed on the fixing kit, with ref. **NSYCFIX**, or with adjustable depth with ref. **NSYCFIX6** or **NSYCFIX8**.
- Material: galvanised steel.

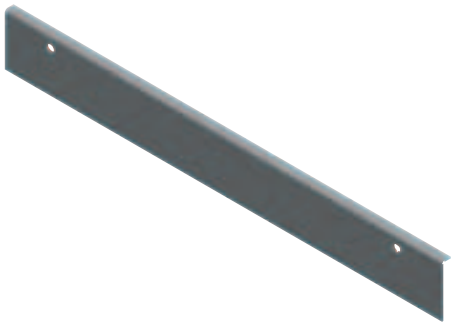
Supply: one mounting plate.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
200	*600*	**NSYMP26**
400		**NSYMP46**
600		**NSYMP66**
800		**NSYMP86**
1000		**NSYMP106**
200	*800*	**NSYMP28**
400		**NSYMP48**
600		**NSYMP68**
800		**NSYMP88**
1000		**NSYMP108**

PB500654



Compartimentalised enclosure
Mounting accessories



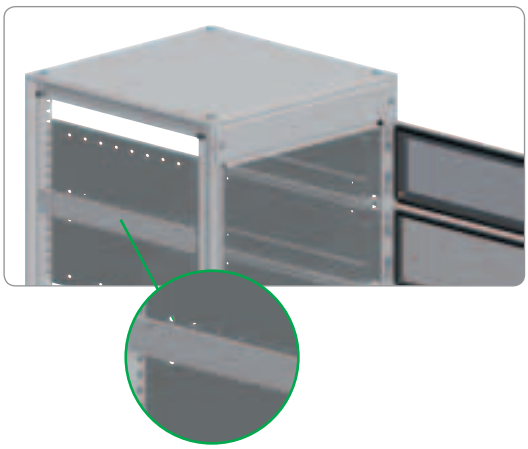
PB500655

Side enclosing plate

- Plate to be installed between the side partitions, achieving full enclosure of the module.
- It is fixed to the side partition from the outside of the enclosure.
- Material: galvanised steel.

Supply: two sides enclosings plate and fixing elements.

Spacial SF Dimensions (mm)	Reference
Depth	
600	**NSYCMOD6**
800	**NSYCMOD8**



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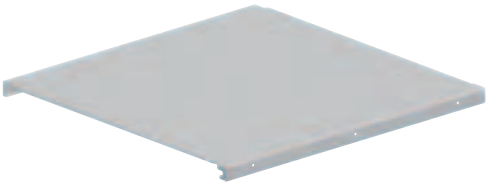
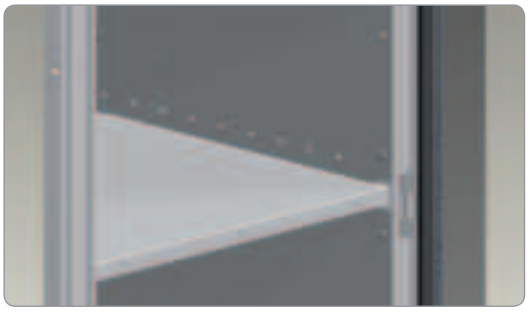


PB500657

Partition tray

- Guarantees horizontal insulation of the modules.
- It is fixed to the front frame, supported by the side partitions.
- Material: galvanised steel.

Supply: one partition tray and fixing elements.



PB500658

Spacial SF dimensions (mm)		Reference
Width	Depth	
600	*400*	**NSYSTR64**
	500	**NSYSTR65**
800	*400*	**NSYSTR84**
	500	**NSYSTR85**

Compartimentalised enclosure
Mounting accessories

PB500659

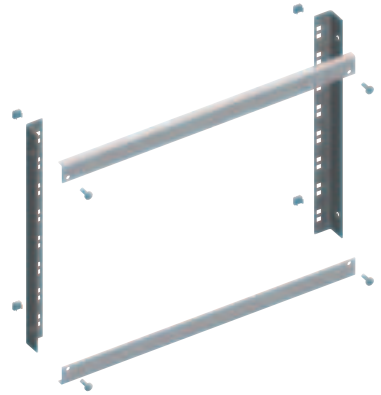
Tray crossbar

- To be installed between partial doors separated with a partition tray.
- It is fixed to the partition tray by screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: one tray crossbar and fixing elements.

Spacial SF Dimensions (mm) Width	Reference
600	**NSYTRG6**
800	**NSYTRG8**

PB500660



PB500661

Partial 19" fixed rack

- Designed for coupling to enclosures with a width of 600 mm.
- Direct fixing to the structure, in front position.
- Maximum load: 2 kg/u.
- Material: zinc-coated steel.

Supply: two racks, two horizontal escutcheons and fixing elements.

Enclosure height (mm)	No. of units	Reference
200	*3*	**NSYCRCKP3**
400	*7*	**NSYCRCKP7**
600	*12*	**NSYCRCKP12**
800	*16*	**NSYCRCKP16**
1000	*21*	**NSYCRCKP21**
1200	*25*	**NSYCRCKP25**

PB500662

Stainless-steel wall-mounting enclosures

Stainless-steel wall-mounting enclosures
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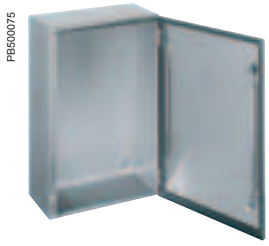
PB500075

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Our stainless-steel solutions:
to withstand aggressions
in exposed environments

Our stainless-steel solutions:
to withstand aggressions
in exposed environments

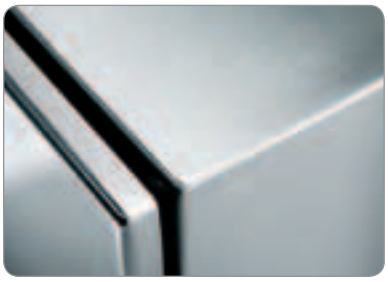
Choice:

A complete range of enclosures.
Plain door and glazed door.
2 stainless-steel grades: 304L and 316L (according to the range).

PB501225

Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.


PB501232

Aesthetics:

Scotch-Brite® brushed finish as standard.
Micro-beaded or painted finish (on request).
Chrome-plated escutcheon.
Invisible weld points.
Perfect polishing.

PB500075

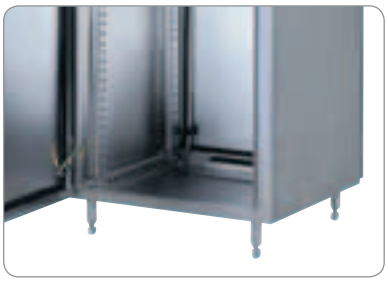
Customisation:

Machining and cut-outs.
Special dimensions.
Accessory installation.
Special finishes: painted and micro-beaded.
Production according to your specifications.

PB501227

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.


PB501228

Availability:

Wide range of dimensions for the wall-mounting enclosures, monobloc and suitable floor-standing enclosures and control desks.
Accessory compatibility with our metal ranges.

What is stainless steel?

PB501229

How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

- The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	carbon	chromium	nickel	molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25

Choosing a stainless steel grade

PB501230

AISI 304L stainless steel (known as food and beverage stainless steel)

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

- Prevention against corrosion, especially in the presence of organic acids.
- Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.

PB501231

AISI 316L stainless steel (known as marine stainless steel)

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

The finish

The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria. The lower the roughness, the fewer bacteria become incrusted. Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish.
To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.

PB501232

Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness, Ra ≤ 0.8 µm.

PB501233

Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:
- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:
- Increased hardness.
- Reduced surface roughness (Ra ≈ 0.8 µm).
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.

Typical application: pharmaceutical and food and beverage industries.

PB501234

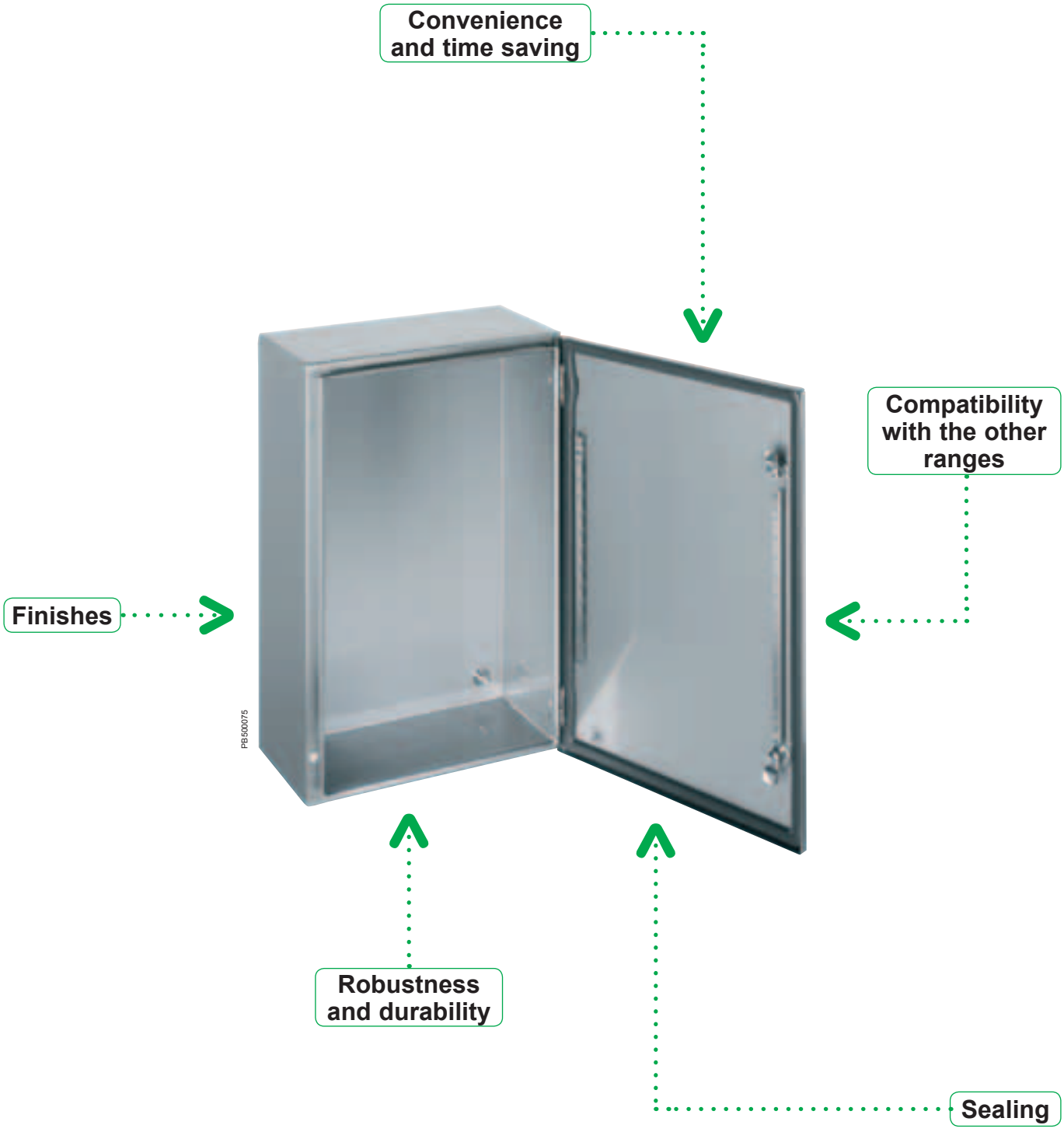
Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.

Typical applications: marine, seaside, off-shore.

Stainless-steel wall-mounting enclosures



Stainless-steel wall-mounting enclosures

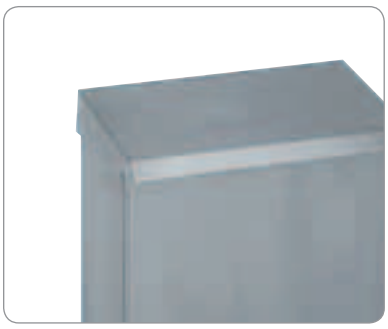
Finishes:

Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish.
Painted in the RAL range or micro-beaded finish (on request).

PB501225

Large range of accessories:

Stainless-steel accessories: canopy, wall-fixing lugs.
Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides.
Large selection of locks with 100% stainless-steel transformation.


PB501239

Sealing:

Protection rating of IP 66 (IEC 60529): complete protection against dust and water sprays.
Polyurethane gasket.
Gutter-shaped front profile.
Three closure points for the double door.

PB501240

Robustness and durability:

Resistance to external mechanical impacts:
IK 10: plain door,
IK 08: glazed door.
Door reinforcement frame or profile.
Stainless-steel hinges.

PB501241

Convenience and time saving:

304 or 316L stainless-steel wall-fixing lugs.
Vertical reinforcement perforated profiles, which make it easier to equip the door.
Reversible door opening to 120°.
Easy installation directly on the machine thanks to the 4 rear drill holes.

PB501242

304L / 316L stainless-steel wall-mounting enclosure
Introduction

PB500075

PB501243

Technical features

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

- Two types of materials, with Scotch-Brite® brushed finish, are available:
  – AISI 304L,
  – AISI 316L.
- Two wall-mounting enclosure versions are available:
  – With plain door,
  – With glazed door, Securit® glass, 4 mm thick.
- Protection rating of IP 66 for all single enclosures with single door and glazed door, IP 55 for the double door enclosures, according to IEC 60529.
- Resistance to external mechanical impacts:
  – IK 10 for the solid-door enclosures,
  – IK 08 for the glazed-door enclosures.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Thickness: 1.5 mm.
- Single-piece body (cross-shaped structure). Gutter-shaped front profile.
- 4 rear studs for fixing the material.
- 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories.
- Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm.
- Standard lock with 3-mm double-bar lock (chrome-plated zamak).
- 2 locking points for heights of more than 500 mm or three points for two-door enclosures.
- Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120°.
- Polyurethane gasket.
- M6 x 16 screws on the door and on the body, allowing equipotential connection between the earth connections (on request).
- 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs.

Certifications

- IEC 62208.
- UL 508A.
- CAN/CSA 22.

Stainless-steel wall-mounting enclosures
Dimensions

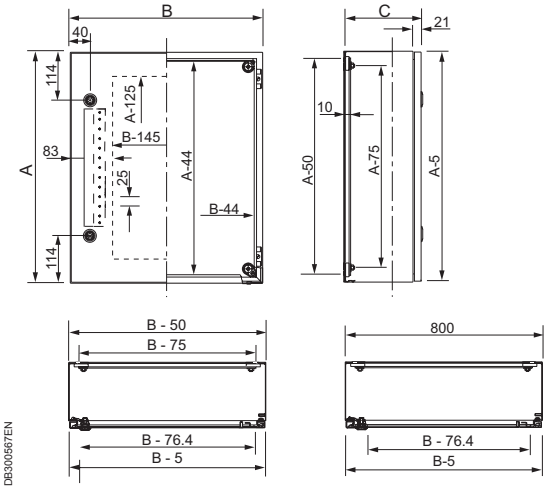


FIG. 2

External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
300	250	150	1
300	300	150	1
400	300	150	1
400	300	200	1
400	400	200	1
400	600	200	1
500	400	200	2*
600	400	200	2
600	600	250	2
700	500	250	2
800	600	250	2
800	800	300	2
1000	800	300	3
1000	1000	300	4
1200	800	300	3
1200	1000	300	4

*Without door reinforcement.

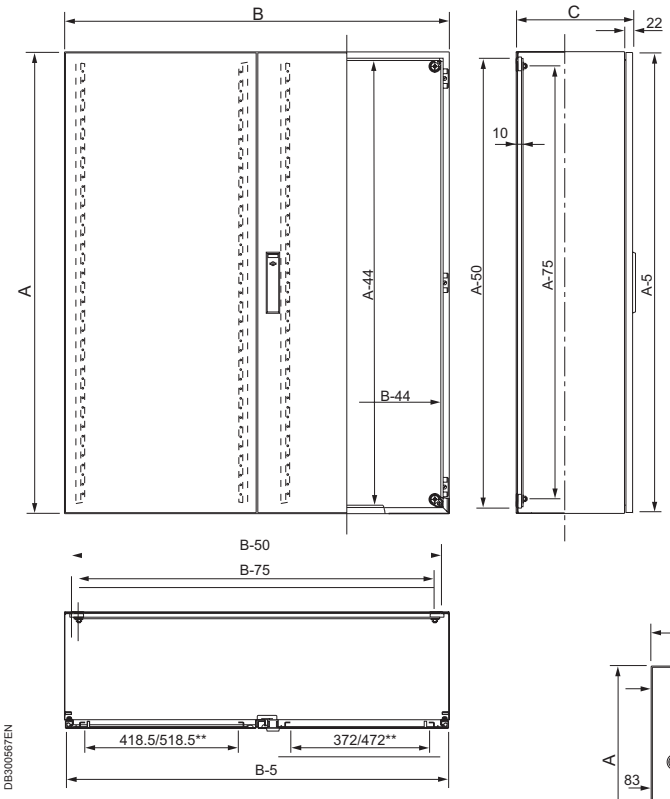


FIG. 4

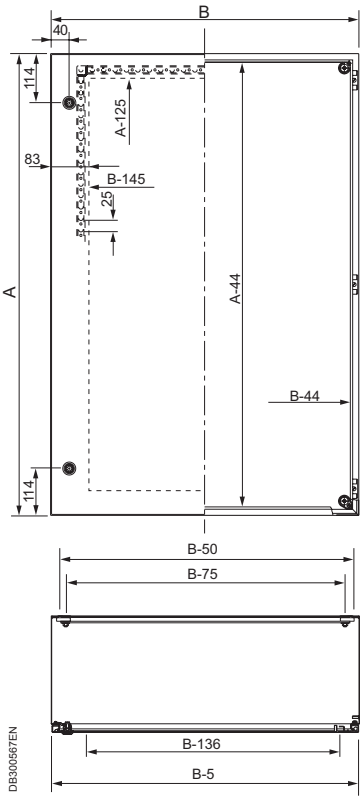


FIG. 3

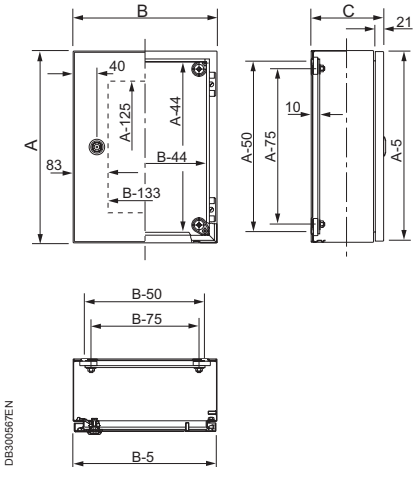
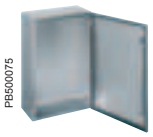


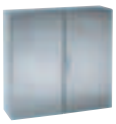
FIG. 1

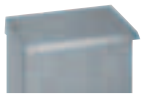
**For glazed door.

Stainless-steel wall-mounting enclosures
Selection guide


PB500075

PB501243


PB501244


PB501239

External dimensions (mm)			No. of locks	No. of doors	304L stainless steel		316L stainless steel	304L stainless-steel canopy
Height	Width	Depth			Plain door	Glazed door**	Plain door	
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015
300	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515
300	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015
400	300	200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020
400	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020
400	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020
600	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025
800	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030
1000	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030
1200	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030

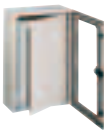
*Three-point closure system.
**The glazed door has no reinforcement.

PB500072

PB500100

PB500101

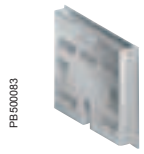
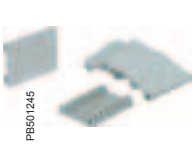
PB500102

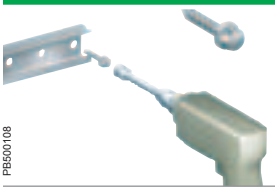

PB500328

PB500408

PB500136

Height	Width	Depth	Mounting plate			Telequick	Inner door	Chassis reference	Number of modules	Step slides
			Plain	Silkscreened	Microperforated					
300	200	150	NSYMM32	-	-	NSYMR32	-	-	-	-
300	250	150	NSYMM3025	-	-	NSYMR3025	-	-	-	-
300	300	150	NSYMM33	-	-	NSYMR33	-	-	-	-
400	300	150	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYPIN43	NSYDLM24	24	-
400	300	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	-	NSYDLM24	24	NSYSDCR200
400	400	200	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	-	-	NSYSDCR200
400	600	200	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	-	-	NSYSDCR200
500	400	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYPIN54	NSYDLM48	48	NSYSDCR200
600	400	200	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYPIN64	NSYDLM48P	48	NSYSDCR200
600	600	250	NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYDLM84P	84	NSYSDCR250
700	500	250	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYPIN75	NSYDLM66	66	NSYSDCR250
800	600	250	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYPIN86	NSYDLM84	84	NSYSDCR250
800	800	300	NSYMM88	-	NSYMF88	NSYMR88	-	-	-	NSYSDCR300
1000	800	300	NSYMM108	-	NSYMF108	NSYMR108	NSYPIN108	NSYDLM240	234	NSYSDCR300
1000	1000	300	NSYMM1010	-	NSYMF1010	NSYMR1010		-	-	NSYSDCR300
1200	800	300	NSYMM128	-	NSYMF128	NSYMR128	NSYPIN128	-	-	NSYSDCR300
1200	1000	300	NSYMM1210	-	NSYMF1210	NSYMR1210	-	-	-	NSYSDCR300

Cable entries	Set of four stainless-steel wall-fixing lugs	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Blanking plate for modular chassis
PB500024	PB501242	 PB500083	PB500186	PB501706	PB500107	 PB501245
	304L : **NSYPFCX** 316L : **NSYPFC2X**	**NSYDPA44**	**NSYINLCRN**	**NSYLAMCS**	**NSYKNM6**	**NSYATP72MS**
Page **421**	Page **214**	Page **469**	Page **468**	Page **461**	Page **377**	Page **385**

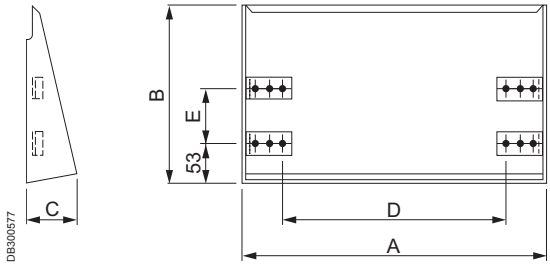
Plain mounting plate screw			
 PB500108	Self-tapping screw		
	M6 x 16	**NSYS16M6HS**	100
	M5 x 13	**NSYS13M5HS**	100
	Self-tapping screw		
	M5 x 16	**NSYS16M5HS**	100

Composition accessories

PB501239

Canopy

- Direct fixing to the body of the enclosure.
- 304L stainless-steel sheet, 1.5 mm thick, Scotch-Brite® brushed finish.
- Delivered with the fixings required for installation.
- Other finishes, other stainless steels: contact us.



DB300577

Configured

Optional in factory assembly: contact us.

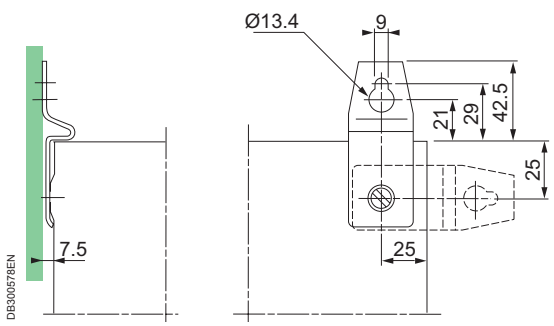
For wall-mounting enclosures (mm)		Dimensions (mm)					Canopy reference
Width	Depth	A	B	C	D	E	
200	150	205	183	51	120	-	**NSYTX2015**
250	150	205	183	51	120	-	**NSYTX2515**
300	150	305	183	51	220	-	**NSYTX3015**
300	200	305	233	51	220	70	**NSYTX3020**
400	200	405	233	70	320	70	**NSYTX4020**
500	250	505	283	70	420	120	**NSYTX5025**
600	200	605	233	70	520	70	**NSYTX6020**
600	250	605	283	70	520	120	**NSYTX6025**
800	300	805	333	70	720	170	**NSYTX8030**
1000	300	1005	333	70	920	170	**NSYTX10030**

PB501242

Wall-fixing lugs

- Set of four 304 or 316L stainless-steel wall-fixing lugs.
- Mounting of the wall-fixing lugs in horizontal or vertical position.
- Fixing from the outside.
- Maximum load: horizontal 180 kg and vertical 350 kg.

Stainless-steel type	Reference
304	**NSYPFCX**
316L	**NSYPFC2X**



DB300578EN

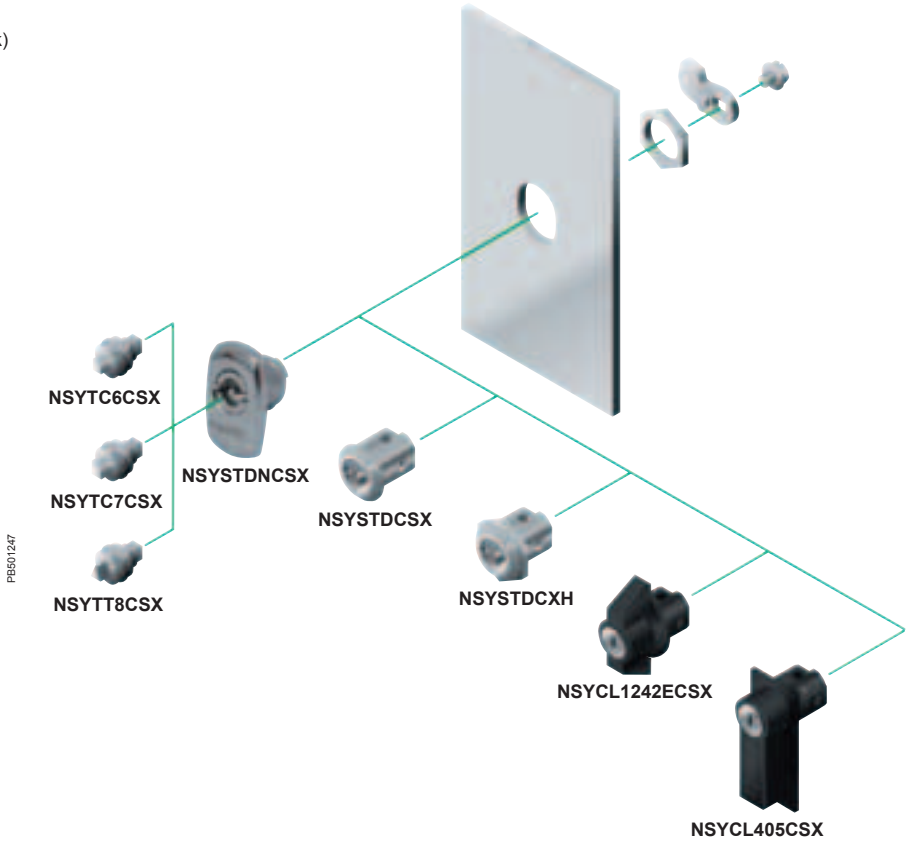
Composition accessories
Locking system

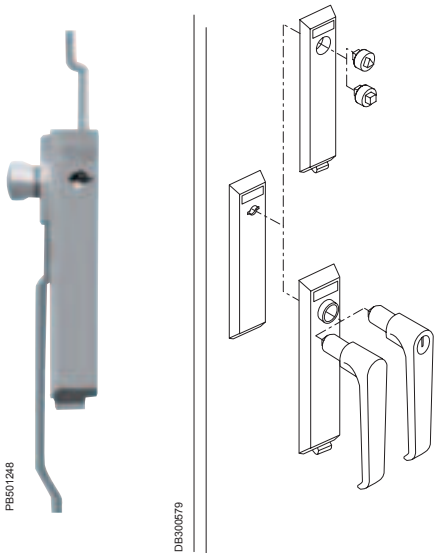
Escutcheon

- Wall-mounting enclosure supplied with 3-mm double-bar chrome-plated zamak lock.
- Protection rating: IP 66.

Standard escutcheon
3-mm double-bar lock (standard - chrome-plated zamak)

NSYSTDNCSX





For the closures of double-door enclosures, contact us.

Description	Material	Reference
Standard 3-mm double-bar lock	chrome-plated zamak	**NSYSTDNCSX**
Round 3-mm double-bar lock (spare)	chrome-plated zamak	**NSYSTDCSX**
Round 3-mm double-bar lock	100 % stainless steel	**NSYSTDCXH**
8-mm triangular insert	100 % stainless steel	**NSYTT8CSX**
7-mm square insert	100 % stainless steel	**NSYTC7CSX**
6-mm square insert	100 % stainless steel	**NSYTC6CSX**
1242E handle lock	Chrome-plated	**NSYCL1242ECSX**
405 handle lock	Polyamide	**NSYCL405CSX**

Configured

Optional in-factory assembly: contact us.

Door accessories

PB500328

Inner door

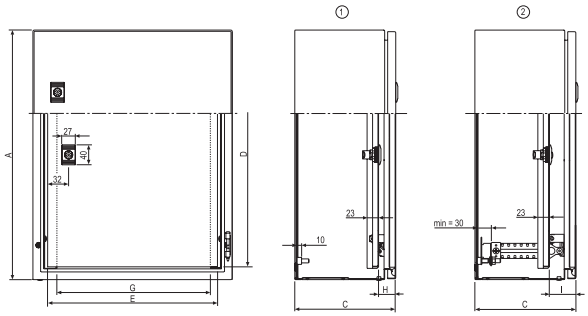
- 3-mm double-bar lock.
- The inner door can be mounted either on the front side of the enclosure or on step slides (not suplied with standard).
- Maximum load: 30 kg/m².
- As standard it can be mounted an inner door and a mounting plate, on the step slides, at the same time.
- Not compatible with door retainer and door switch. Consult us.

Composition: 1 inner door.

For wall-mounting enclosures		Reference	D	E	G	H	I min.
Height (A)	Width (B)						
400	300	**NSYPIN43**	349	241	208	32	51
500	400	**NSYPIN54**	449	341	308	32	51
600	400	**NSYPIN64**	549	341	308	32	51
700	500	**NSYPIN75**	649	441	408	32	51
800	600	**NSYPIN86***	749	541	508	32	51
1000	800	**NSYPIN108***	949	741	708	32	51
1200	800	**NSYPIN128***	1149	741	708	32	52

* Equipped with welded vertical profiles in order to facilitate cable management.

Spacial S3X stainless-steel enclosures dimensions



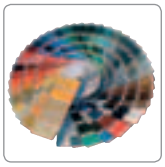
DB300580

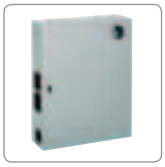
① NSYPIN inner door fixed directly to the enclosure.

② NSYPIN inner door fixed to the adjustable NSYSDCR support. In this case, both the inner door and the mounting plate may be depth adjustable.

Customised service: All standard dimensions from our catalogue on request and more...

Configured


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501692
Accessories

Installation examples

PB501236

Monobloc stainless-steel control desk

- Control desk made from micro-beaded 304L stainless steel with monobloc console and desk top, recessed front and rear panels and equipped with inner mounting plates.
- Dimensions:
  Height: 1200 mm.
  Width: 2200 mm.
  Depth: 1060 mm.

Strengths

- Large monobloc control desk.
- Meticulous aesthetics.
- Impeccable surface condition (micro-beading).
- Easy disinfection.

PB501237

Suited 19" rack and PC rack for pharmaceutical process

- 19" rack and PC rack made from micro-beaded 304L stainless steel with electropolished fronts.
- Equipped with hygienic feet, H = 100 mm.

Strengths

- Meticulous aesthetics.
- Impeccable surface condition (electropolishing).
- Easy disinfection.

PB501238

Stainless-steel lighting enclosures

- Large enclosures, W = 3000 mm, made from micro-beaded 316L stainless steel, 2.0 mm, with tilted top and plinth. These enclosures are installed on bridge piers.

Strengths

- Excellent seal.
- Meticulous aesthetics.

Specific Configured

Stainless-steel floor-standing enclosures

Stainless-steel floor-standing enclosures
Contents

PB500138

Spacial SMX Stainless-steel floor-standing monobloc enclosures **200**

Introduction 202
Dimensions 203

PB600141

Spacial SFX Stainless-steel floor-standing suitable enclosures **206**

Introduction 208
Dimensions 209

Accessories **212**

Stainless-steel monobloc floor-standing enclosures

Stainless-steel monobloc floor-standing enclosures

Material and finishes:

Stainless-steel grade:
AISI 304L and 316L as standard.
Finishes:
Scotch-Brite® brushed (standard).
Micro-beaded (on request).
Painted (on request).

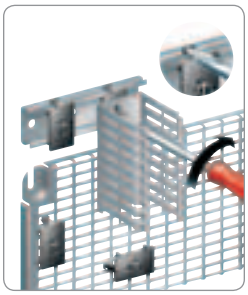
Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

PB501232

Convenience and time saving:

Complete range of accessories for installation, cable management, etc.
316L stainless-steel plinth: easy cable entry.
Reversible door opening to 120°.
Padlock lock with key or form insert.
Adjustment rails perforated with a pitch of 25 mm.
Perforated reinforcement frame allowing accessories to be mounted on the door.


PB500958

Sealing:

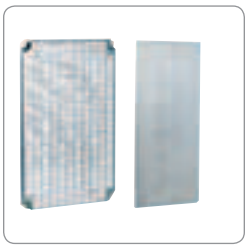
Protection rating of IP 55 (IEC 60529): complete protection against dust and water sprays.
3-point closures.
Canopy (optional):
- protects the sealing plane of the door,
- guarantees correct water drainage,
- no stagnation on the top.

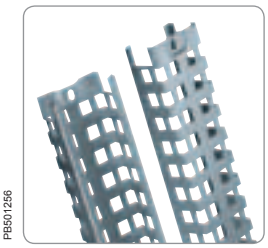
Single-piece cable-gland plate with polyurethane gasket.

PB500138

Compatible with the other ranges:

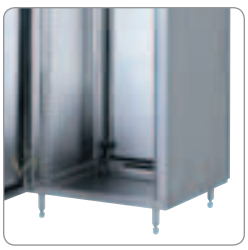
The mounting plates and other accessories of the Spacial SM standard metal offer.


PB501255


PB501256

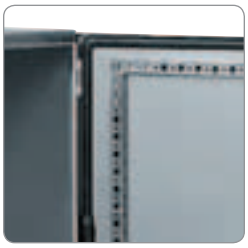
Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.


PB501228

Robustness and durability:

Resistance to external mechanical impacts:
IK 10 according to IEC 62262.
3 hinges made entirely from stainless steel.
Door reinforcement frame.


PB501241

Stainless-steel monobloc floor-standing enclosures
Introduction

PB500138

Technical characteristics

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

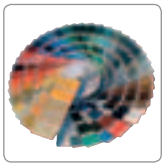
- Stainless-steel sheet floor-standing enclosure, 1.5 mm thick, folded and welded.
- Two types of materials, with Scotch-Brite® brushed finish, are available:
– 304L stainless steel,
– 316L stainless steel.
- Micro-beaded and painted finishes (on request).
- Protection rating: IP 55 according to IEC 60529.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 1 Nema door, type 1, 2, 3, 3R, 4, 4X, 5, 12, 12K, 13.
- 2 Nema doors, type 1, 2, 12K.
- Resistance to external mechanical impacts: IK 10 according to IEC 62262.
- Plain front door. Opening to left or right to 120° with reinforcement frame. Installed on 3 stainless-steel hinges. 3-point closure with handle made from painted zamak, 5-mm double bar.
  Acceptable load of 50 kg.
- Delivered with 4 mounting plate-supporting brackets.
- Single-piece cable-gland plate delivered.
- 316L stainless-steel plinths, optional heights of 100 and 200 mm.
- Optional stainless-steel canopies.
- Optional eyebolts.
  Maximum load: 830 kg when slinging at 60°.
- For more information on the technical features of the different types of finishes: see page **187**.

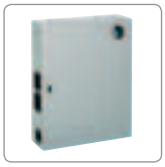
Certifications

- IEC 62208.
- UL 508.
- CAN/CSA 22.

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501691
Construction changes

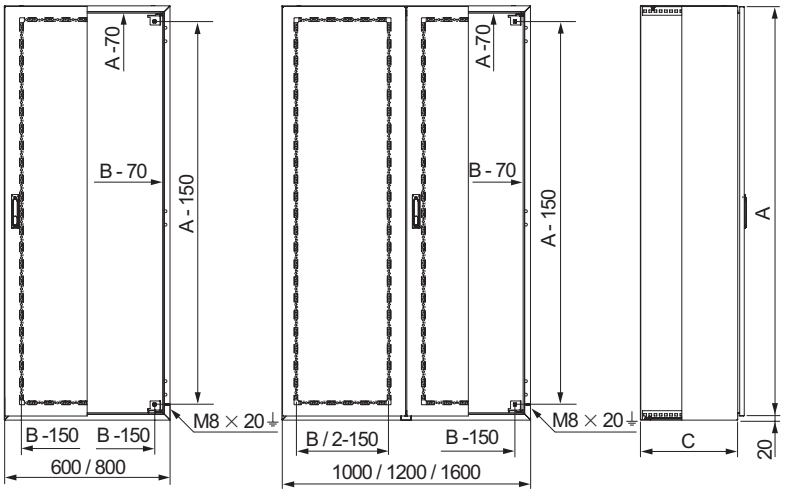
PB501692
Accessories

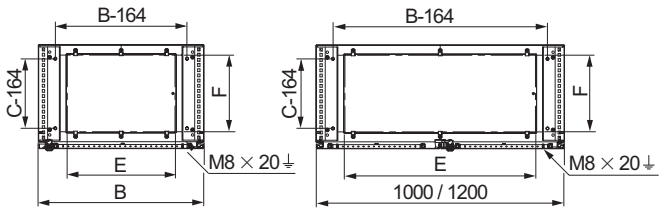
Stainless-steel monobloc floor-standing enclosures
Dimensions

PB500137

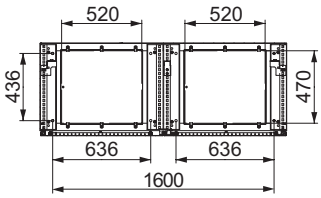
304L and 316L stainless-steel floor-standing enclosures:

Floor-standing enclosure dimensions (mm)			No. of cable-gland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)		E	F
1400	1000	300	1	720	270
1600	800	400	1	520	270
1800	600	400	1	520	270
1800	800	400	1	520	270
1800	1200	400	1	920	270
1800	1600	400	2	1320	270
2000	800	500	1	520	370
2000	1000	400	1	720	270
2000	1200	500	1	920	370
2000	1600	600	2	1320	470





Enclosure width of 1000 and 1200 mm.



DB300714

Enclosure width of 1600 mm.

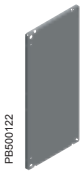
Stainless-steel monobloc floor-standing enclosures
Selection guide

PB500137

PB500138

External dimensions (mm)			Number of front doors	Stainless-steel enclosure	
Height (A)	Width (B)	Depth (C)		304L	316L
1400	1000	300	2	**NSYSMX141030**	-
1600	800	400	1	**NSYSMX16840**	-
1800	600	400	1	**NSYSMX18640**	-
1800	800	400	1	**NSYSMX18840**	**NSYSMX18840H**
1800	1200	400	2	**NSYSMX181240**	**NSYSMX181240H**
1800	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**
2000	800	500	1	**NSYSMX20850**	-
2000	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**
2000	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**
2000	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**

PB501258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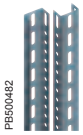
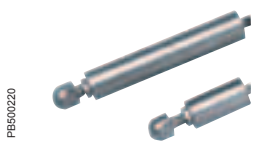
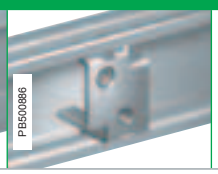
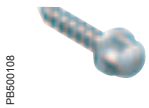

PB500482

PB500483

External dimensions (mm)			Brushed 316L stainless-steel canopy	Plain mounting plate	Standard vertical uprights	Technical vertical uprights
Height (A)	Width (B)	Depth (C)				
1400	1000	300	**NSYSCX10030**	**NSYMP1410**	-	**NSYTVR14**
1600	800	400	**NSYSCX8040**	**NSYMP168**	-	**NSYTVR16**
1800	600	400	**NSYSCX6040**	**NSYMP186**	**NSYVR18**	**NSYTVR18**
1800	800	400	**NSYSCX8040**	**NSYMP188**	**NSYVR18**	**NSYTVR18**
1800	1200	400	**NSYSCX12040**	**NSYMP1812**	**NSYVR18**	**NSYTVR18**
1800	1600	400	**NSYSCX16040**	**NSYMP1816**	**NSYVR18**	**NSYTVR18**
2000	800	500	**NSYSCX8050**	**NSYMP208**	**NSYVR20**	**NSYTVR20**
2000	1000	400	**NSYSCX10040**	**NSYMP2010**	**NSYVR20**	**NSYTVR20**
2000	1200	500	**NSYSCX12050**	**NSYMP2012**	**NSYVR20**	**NSYTVR20**
2000	1600	600	**NSYSCX16060**	**NSYMP2016**	**NSYVR20**	**NSYTVR20**

Hygienic feet	Wall-fixing lugs for SMX	Nuts and screws for rails
 PB500220	PB501242	PB500863 PB500866  PB500886  PB500108
100 mm: **NSYPHX100** 200 mm: **NSYPHX200**	304 stainless-steel: **NSYFCMX**	
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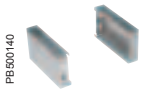
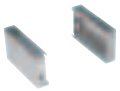
Stainless-steel monobloc floor-standing enclosures
Selection guide

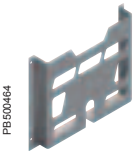
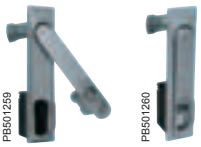
PB500139


PB500140

PB500139


PB500140

Brushed 316L stainless-steel plinth height 100 mm		Brushed 316L stainless-steel plinth height 200 mm	
Kit (4 coins + front and back)	Set of 2 side panels	Kit (4 coins + front and back)	Set of 2 side panels
NSYSPXF10100H	**NSYSPXS3100H**	**NSYSPXF10200H**	2 x **NSYSPXS3100H**
NSYSPXF8100H	**NSYSPXS4100H**	**NSYSPXF8200H**	2 x **NSYSPXS4100H**
NSYSPXF6100H	**NSYSPXS4100H**	**NSYSPXF6200H**	2 x **NSYSPXS4100H**
NSYSPXF8100H	**NSYSPXS4100H**	**NSYSPXF8200H**	2 x **NSYSPXS4100H**
NSYSPXF12100H	**NSYSPXS4100H**	**NSYSPXF12200H**	2 x **NSYSPXS4100H**
NSYSPXF16100H	**NSYSPXS4100H**	**NSYSPXF16200H**	2 x **NSYSPXS4100H**
NSYSPXF8100H	**NSYSPXS5100H**	**NSYSPXF8200H**	2 x **NSYSPXS5100H**
NSYSPXF10100H	**NSYSPXS4100H**	**NSYSPXF10200H**	2 x **NSYSPXS4100H**
NSYSPXF12100H	**NSYSPXS5100H**	**NSYSPXF12200H**	2 x **NSYSPXS5100H**
NSYSPXF16100H	**NSYSPXS6100H**	**NSYSPXF16200H**	2 x **NSYSPXS6100H**

Eyebolts	Plastic document pocket	Cable entries	Closure option	Multi-fixing lamp
PB501257	 PB500464	PB500024	 PB501259 PB501260	PB501706
NSYSMEB	**NSYDPA44**		**NSYATP72MS**	**NSYLAMCS**
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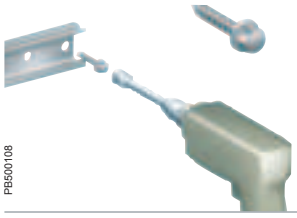
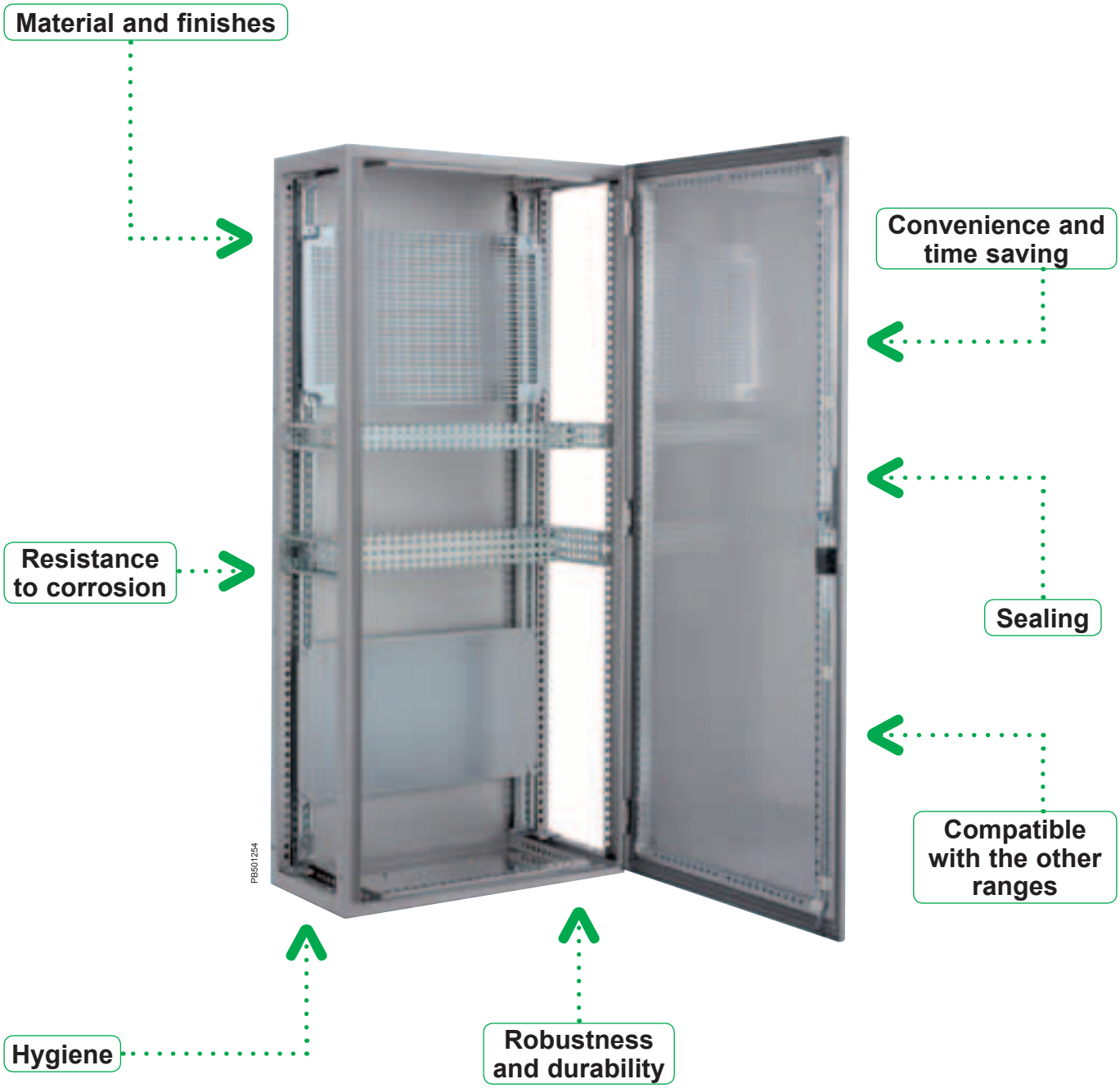
Plain mounting plate screw			
 PB500108	Self-tapping screw		
	M6 x 16	**NSYS16M6HS**	100
	M5 x 13	**NSYS13M5HS**	100
	Self-tapping screw		
	M5 x 16	**NSYS16M5HS**	100

Stainless-steel suitable enclosures



Stainless-steel suitable enclosures

Material and finishes:

Stainless-steel grade:
AISI 304L as standard.
AISI 316L (on request).
Finishes:
Scotch-Brite® brushed (standard).
Micro-beaded (on request).
Painted (on request).

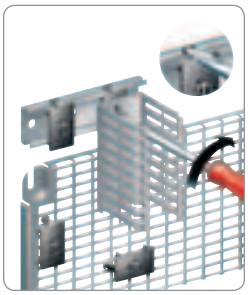
Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

PB501232

Convenience and time saving:

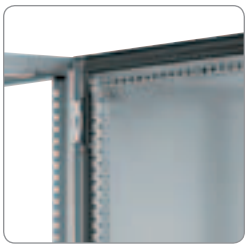
Complete range of accessories for installation, cable management, etc.
304L or 316L stainless-steel plinth: easy cable entry.
Reversible door opening to 120°.
Padlock lock with key or form insert.
Adjustment rails perforated with a pitch of 25 mm.
Perforated reinforcement frame allowing accessories to be mounted on the door.


PB500958

Sealing:

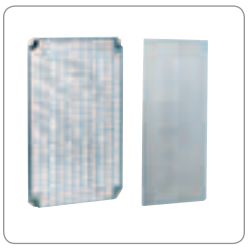
Protection rating of IP 55 (IEC 60529): complete protection against dust and water sprays.
3-point closures.
Canopy (optional):
- protects the sealing plane of the door,
- guarantees correct water drainage,
- no stagnation on the top.

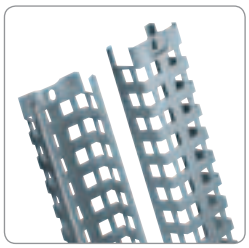
Single-piece cable-gland plate with polyurethane gasket.


PB500141

Compatible with the other ranges:

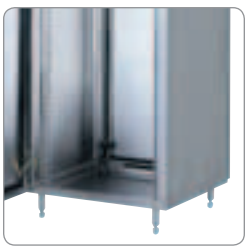
The mounting plates and other accessories of the Spacial SF standard metal offer.


PB501255


PB501256

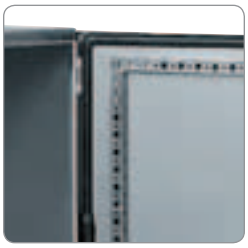
Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.


PB501228

Robustness and durability:

Resistance to external mechanical impacts:
IK 10 according to IEC 62262.
3 hinges made entirely from stainless steel.
Door reinforcement frame.


PB501241

Stainless-steel suitable enclosures
Introduction

PB500141

Technical characteristics

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

- Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles.
- Made from AISI 304L stainless steel with Scotch-Brite® brushed finish.
- Available on request:
  – 316L version.
  – Micro-beaded and painted finish.
- Protection rating of IP55 according to standard IEC 60529.
- High resistance to mechanical impacts: IK 10 according to standard IEC 62262.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Plain front door. Opening to left or right to 120° with reinforcement frame installed.
  – 3 stainless-steel hinges.
  – 3-point closure with handle made from painted zamak, 5-mm double bar.
  – Acceptable load of 50 kg.
- Single-piece cable-gland plate delivered.
- Optional 316L stainless-steel plinths, heights of 100 and 200 mm.
- Optional stainless-steel canopies.
- Optional eyebolt.
- Maximum load: 830 kg when slinging at 60º.

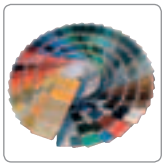
Basic composition

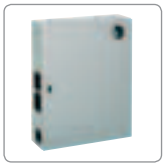
- Structure consisting of top and bottom, rear panel and vertical profiles.
- Single front door, with reinforcement frame.
- Sash-bolt handle made from painted zamak, 3 mm double bar.
- 4 mounting plate-supporting brackets.
- Single-piece cable-gland plate with sealing gasket.

Note: the panels and plinths can be installed and the enclosures can be assembled (on request).

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

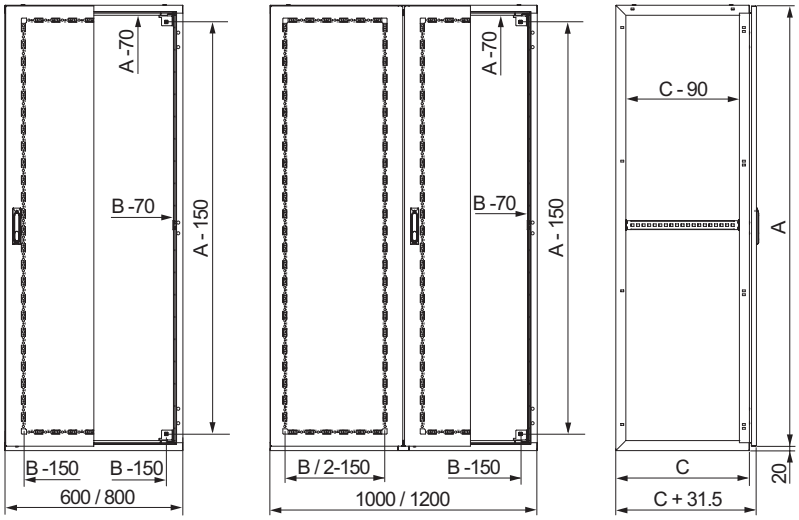
PB501690
Mounting

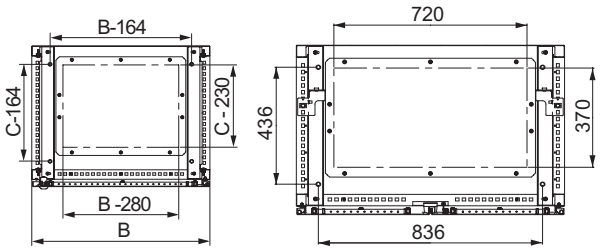
PB501691
Construction changes

PB501692
Accessories

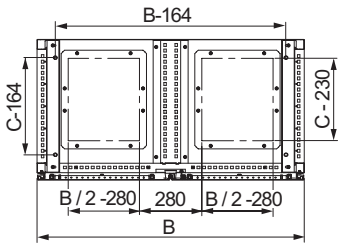
Stainless-steel suitable enclosures
Dimensions

External dimensions (mm)			Number of front doors
Height (A)	Width (B)	Depth (C)	
1800	600	400	1
1800	800	400	1
1800	1200	400	2
2000	600	500	1
2000	800	400	1
2000	800	600	1
2000	1000	600	2
2000	1200	600	2





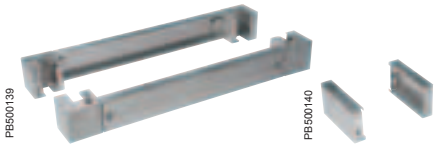
Enclosure width 1000 mm.



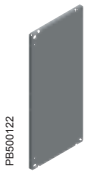
Enclosure width 1200 mm.

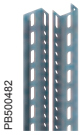
DB300586EN

Stainless-steel suitable enclosures
Selection guide

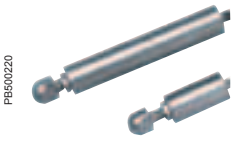
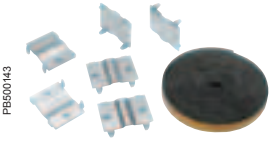
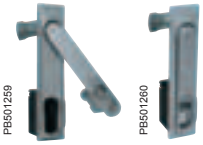


External dimensions (mm)			Number of front doors	References in 304L stainless steel		Brushed 316L stainless-steel plinth height 100 mm	
Height (A)	Width (B)	Depth (C)		Suitable enclosure	Side panels	Kit (4 coins + front and back)	Set of 2 side panels
1800	600	400	1	**NSYSFX18640**	**NSY2SPX184**	**NSYSPXF6100H**	**NSYSPXS4100H**
1800	800	400	1	**NSYSFX18840**	**NSY2SPX184**	**NSYSPXF8100H**	**NSYSPXS4100H**
1800	1200	400	2	**NSYSFX181240**	**NSY2SPX184**	**NSYSPXF12100H**	**NSYSPXS4100H**
2000	600	500	1	**NSYSFX20650**	**NSY2SPX205**	**NSYSPXF6100H**	**NSYSPXS5100H**
2000	800	400	1	**NSYSFX20840**	**NSY2SPX204**	**NSYSPXF8100H**	**NSYSPXS4100H**
2000	800	600	1	**NSYSFX20860**	**NSY2SPX206**	**NSYSPXF8100H**	**NSYSPXS6100H**
2000	1000	600	2	**NSYSFX201060**	**NSY2SPX206**	**NSYSPXF10100H**	**NSYSPXS6100H**
2000	1200	600	2	**NSYSFX201260**	**NSY2SPX206**	**NSYSPXF12100H**	**NSYSPXS6100H**





External dimensions (mm)			Plain mounting plate	Standard vertical uprights	Technical vertical uprights
Height (A)	Width (B)	Depth (C)			
1800	600	400	**NSYMP186**	**NSYVR18**	**NSYVR18**
1800	800	400	**NSYMP188**	**NSYVR18**	**NSYVR18**
1800	1200	400	**NSYMP1812**	**NSYVR18**	**NSYVR18**
2000	600	500	**NSYMP206**	**NSYVR20**	**NSYVR20**
2000	800	400	**NSYMP208**	**NSYVR20**	**NSYVR20**
2000	800	600	**NSYMP208**	**NSYVR20**	**NSYVR20**
2000	1000	600	**NSYMP2010**	**NSYVR20**	**NSYVR20**
2000	1200	600	**NSYMP2012**	**NSYVR20**	**NSYVR20**

Multi-fixing lamp	Hygienic feet	Coupling kit for SFX	Closure option
			
NSYLAMCS	100 mm: **NSYPHX100** 200 mm: **NSYPHX200**	**NSYKNM6**	**NSYATP72MS**
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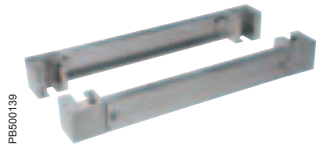
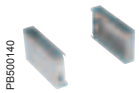
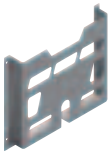
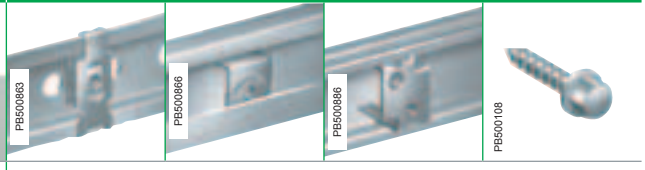
Stainless-steel suitable enclosures
Selection guide


PB500139


PB500140

PB501239

	Brushed 316L stainless-steel plinth height 200 mm		Brushed 316L stainless-steel canopy
	Kit (4 coins + front and back)	Set of 2 side panels	
	NSYSPXF6200H	2 x **NSYSPXS4100H**	**NSYSCX6040**
	NSYSPXF8200H	2 x **NSYSPXS4100H**	**NSYSCX8040**
	NSYSPXF12200H	2 x **NSYSPXS4100H**	**NSYSCX12040**
	NSYSPXF6200H	2 x **NSYSPXS5100H**	**NSYSCX6050**
	NSYSPXF8200H	2 x **NSYSPXS4100H**	**NSYSCX8040**
	NSYSPXF8200H	2 x **NSYSPXS6100H**	**NSYSCX8060**
	NSYSPXF10200H	2 x **NSYSPXS6100H**	**NSYSCX10060**
	NSYSPXF12200H	2 x **NSYSPXS6100H**	**NSYSCX12060**

Eyebolts	Plastic document pocket	Cable entries	Nuts and screws for rails
PB501257	 PB500464	PB500024	 PB500863 PB500866 PB500886 PB500108
NSYSMEB	**NSYDPA44**		
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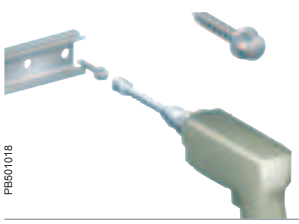
Plain mounting plate screw			
 PB501018	Self-tapping screw		
	M6 x 16	**NSYS16M6HS**	100
	M5 x 13	**NSYS13M5HS**	100
	Self-tapping screw		
	M5 x 16	**NSYS16M5HS**	100

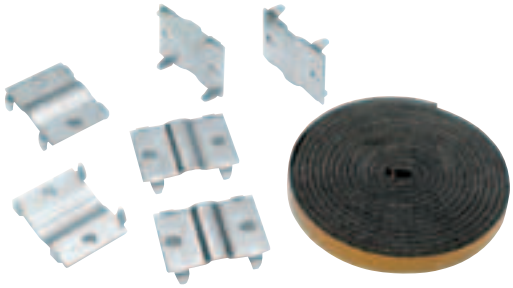
Composition accessories

PB500142

Side panels for stainless-steel suitable enclosure for SFX

- Side panels including a polyurethane sealing gasket.
- Their special design guarantees the protection of the door gasket.

For suitable enclosure (mm)		Reference
Height	Depth	
1800	400	**NSY2SPX184**
2000	400	**NSY2SPX204**
2000	500	**NSY2SPX205**
2000	600	**NSY2SPX206**


PB500143

Coupling kit for SFX

- Used for joining enclosures side by side.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:

– Flat connectors and brackets: zinc-coated steel.
– Sealing gasket: EPDM.

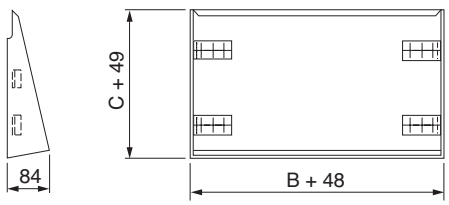
Reference
NSYSFBK19

PB501258

Top-mounting accessories Canopy for SMX and SFX

- Guarantees very high protection of the enclosure when used outdoors.
- It is fixed in the same holes as the eyebolt. Delivered with fixings.
- Material: 304L stainless-steel sheet, 1.5 mm thick, Scotch-Brite® brushed finish.
- Other finishes or other types of stainless steel: contact us.

For enclosures with dimensions (mm)		Reference
Width (B)	Depth (C)	
600	400	**NSYSCX6040**
600	500	**NSYSCX6050**
800	400	**NSYSCX8040**
800	500	**NSYSCX8050**
800	600	**NSYSCX8060**
1000	300	**NSYSCX10030**
1000	400	**NSYSCX10040**
1000	600	**NSYSCX10060**
1200	400	**NSYSCX12040**
1200	500	**NSYSCX12050**
1200	600	**NSYSCX12060**
1600	400	**NSYSCX16040**
1600	600	**NSYSCX16060**



DB300587

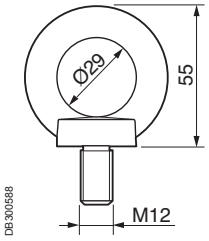
Composition accessories

PB501257

Eyebolts

- Set of four M12 eyebolts.
- Material: treated moulded steel.
- It is fixed using fixing nuts supplied with the enclosure.
- Maximum load: 830 kg when slinging at 60°.

Reference
NSYSMEB



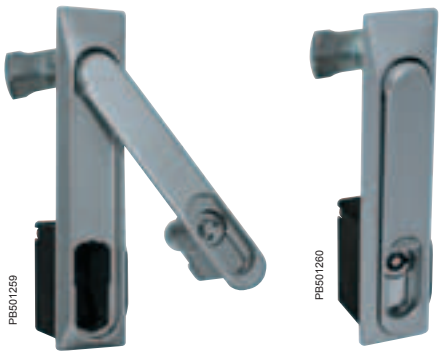
DB300588

PB501262

Lifting bracket for stainless-steel suitable enclosure for SFX

- Set of four lifting brackets.
- Material: treated steel.
- They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted.
- Maximum load: 2000 kg when slinging at 60°.

Reference
NSYPUNX


PB501259

PB501260

Closure option

- The enclosures are delivered as standard with handle made from painted zamak, 5 mm double bar (1242E, 405E, 455E, 6.5 mm triangle available).
- Large range of standard inserts available.

Description	Pack.	Reference
Spare handle	1	NSYMCSX
5 mm double-bar insert	1	NSYTDB5ME
6 mm square insert	1	NSYTC6ME
7 mm square insert	1	NSYTC7ME
8 mm square insert	1	NSYTC8ME
6.5 mm triangular insert	1	NSYTT6ME
8 mm triangular insert	1	NSYTT8ME
Padlocking device	1	NSYBCME

Stainless-steel composition accessories

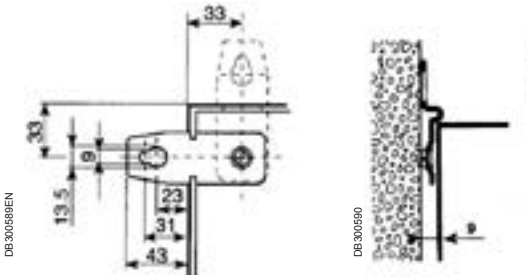
PB501242

Wall-fixing lugs for SMX

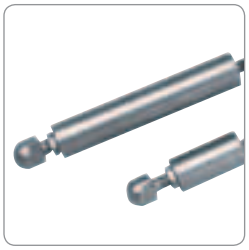
- Set of four 304 stainless-steel wall-fixing lugs.
- Mounting of the wall-fixing lugs in horizontal or vertical position.
- Fixing from the outside.
- Maximum load: horizontal 180 kg and vertical 350 kg.

Reference
NSYFCMX

NSYFCMX



DB300589EN DB300590


PB500220

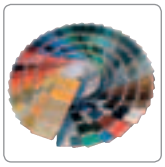
Hygienic feet

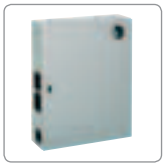
- Set of 4 adjustable feet.
- Made from 316L stainless steel, making it easier to clean under the enclosure.
- Recommended for applications that require special hygiene conditions.
- Available in heights of 100 or 200 mm.
- Maximum admissible load per foot: 100 kg.

Height (mm)	Reference
100	NSYPHX100
200	NSYPHX200

Customised service: All standard dimensions from our catalogue on request and more...

Configured


PB501688 Paints


PB500359 Holes & Cutouts

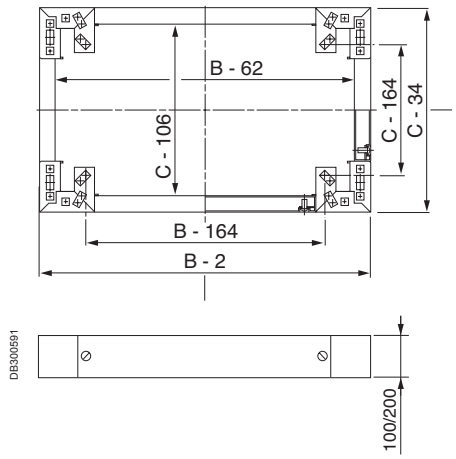
PB501690 Mounting

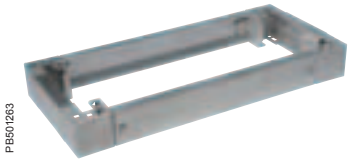
PB501692 Accessories

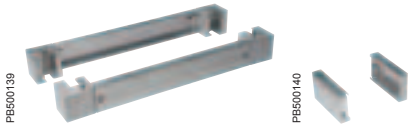
Stainless-steel composition accessories

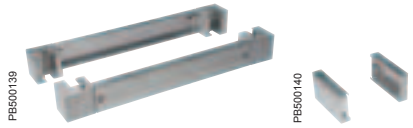
Stainless-steel plinths

- Mounting in the holes for fixing the enclosures to the floor.
- Made from high quality stainless steel, AISI 316L Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion.
- Available in two heights: 100 and 200 mm.





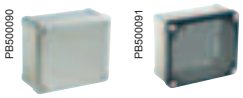




External dimensions (mm)		Brushed 316L stainless-steel plinth height 100 mm		Brushed 316L stainless-steel plinth height 200 mm	
Width (B)	Depth (C)	Front + corner	Side	Front + corner	Side
600	400	**NSYSPXF6100H**	**NSYSPXS4100H**	**NSYSPXF6200H**	2 x **NSYSPXS4100H**
600	500	**NSYSPXF6100H**	**NSYSPXS5100H**	**NSYSPXF6200H**	2 x **NSYSPXS5100H**
600	600	**NSYSPXF6100H**	**NSYSPXS6100H**	**NSYSPXF6200H**	2 x **NSYSPXS6100H**
600	800	**NSYSPXF6100H**	**NSYSPXS8100H**	**NSYSPXF6200H**	2 x **NSYSPXS8100H**
800	400	**NSYSPXF8100H**	**NSYSPXS4100H**	**NSYSPXF8200H**	2 x **NSYSPXS4100H**
800	500	**NSYSPXF8100H**	**NSYSPXS5100H**	**NSYSPXF8200H**	2 x **NSYSPXS5100H**
800	600	**NSYSPXF8100H**	**NSYSPXS6100H**	**NSYSPXF8200H**	2 x **NSYSPXS6100H**
1000	300	**NSYSPXF10100H**	**NSYSPXS3100H**	**NSYSPXF10200H**	2 x **NSYSPXS3100H**
1000	400	**NSYSPXF10100H**	**NSYSPXS4100H**	**NSYSPXF10200H**	2 x **NSYSPXS4100H**
1000	500	**NSYSPXF10100H**	**NSYSPXS5100H**	**NSYSPXF10200H**	2 x **NSYSPXS5100H**
1000	600	**NSYSPXF10100H**	**NSYSPXS6100H**	**NSYSPXF10200H**	2 x **NSYSPXS6100H**
1200	400	**NSYSPXF12100H**	**NSYSPXS4100H**	**NSYSPXF12200H**	2 x **NSYSPXS4100H**
1200	500	**NSYSPXF12100H**	**NSYSPXS5100H**	**NSYSPXF12200H**	2 x **NSYSPXS5100H**
1200	600	**NSYSPXF12100H**	**NSYSPXS6100H**	**NSYSPXF12200H**	2 x **NSYSPXS6100H**
1600	400	**NSYSPXF16100H**	**NSYSPXS4100H**	**NSYSPXF16200H**	2 x **NSYSPXS4100H**
1600	600	**NSYSPXF16100H**	**NSYSPXS6100H**	**NSYSPXF16200H**	2 x **NSYSPXS6100H**

Insulating boxes

Insulating boxes
Contents



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Thalassa TBS - TBP Thermoplastic industrial boxes **222**

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Thalassa PLS Insulating modular boxes **244**

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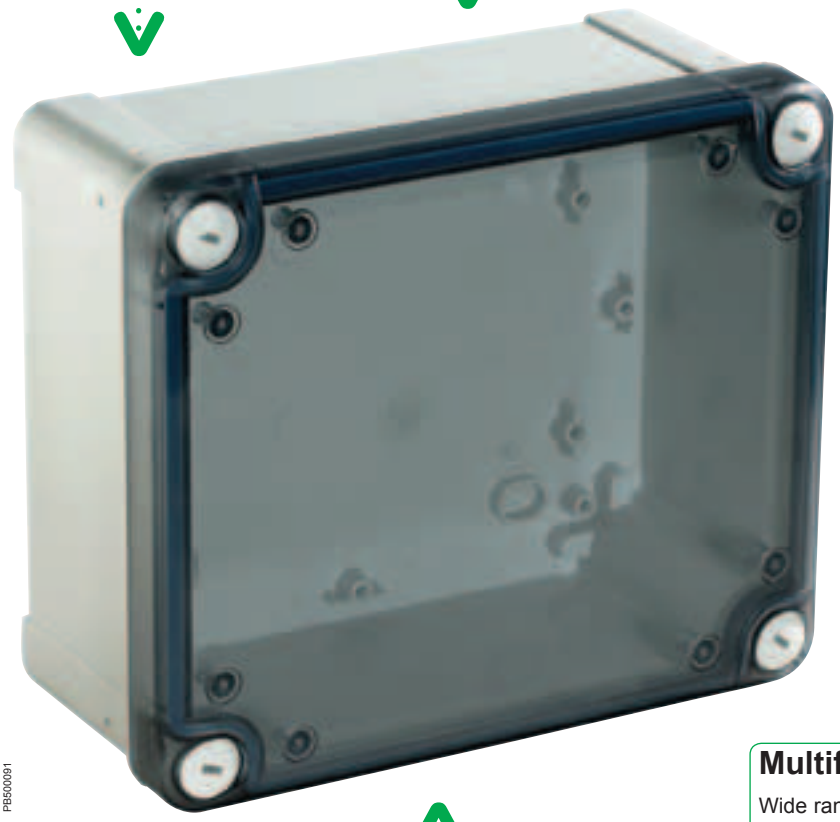
Accessories 248
Modular distribution application 252

Your industrial boxes IP 66, IK 07 and IK 08, ideal in any conditions!



Easy to install
3 methods of fixing the box to its support

Easy to use
Only one tool is required: a flat screwdriver

Sealed
IP 66 for all the ranges

Smart
Fixing studs on the cover

Robustness
Up to IK 08

Multifunction
Wide range of options for cable entries and internal equipment

Safe
Type II protection against electric shocks

Modular
Simple and logical range of widths, heights and depths

Customisation service

Complementing our standard solutions, Thalassa industrial boxes can be adapted and transformed to your specific needs:

- For easy and direct use in your industrial process.
- To reduce your production times and reduce logistics constraints.
- To blend in with the aesthetics and ergonomics of your equipment.
- To have the guarantee of quality customisation.

Customisation offer

- Accessory installation.
- Machining: cut-outs, drill holes.
- Marking.
- Colours.
- Packaging alternatives.

Specific

Adaptability

Good flame resistance:
ABS: 650 °C.
PC (UL): 960 °C, UL94V0.

Safety

Protection against electric shocks: class II.

Equipment

The various installation studs all have the same diameter. Only one type of screw is used to fix all the accessories: batch of 100 self-tapping screws, ref. **NSYAMFSTB**.

Performance

- Sealing:
– IP 66 guaranteed by a polyurethane seal.
– NEMA 4.4X (NEMA 250).
- Mechanical strength:
– ABS: IK 07 (2J).
– Polycarbonate: IK 08 (5J).

Well designed

Fixing studs in the cover for accommodating equipment.
Corners for centring the cover on the body.

Light and resistant

Boxes weighing only some dozens of grams can withstand impacts of several kilograms.

Aesthetics

Rounded design intended to maximise robustness and sealing.

Practical

Cardboard packaging reusable once the box is equipped.

Choice

- 22 models from 74 x 74 x 54 to 341 x 291 x 168 mm in ABS or polycarbonate (PC) with low or high, opaque or transparent covers.
- Multiple installation accessories.

Standards

IEC 62208 Certified TÜV (report available on our websites).

Installation

Various options for fixing the box, outside the sealed volume, through the rear of the box or using external lugs.

Environment

Respect for eco-design rules (Product environmental profile).
Halogen-free plastic materials.

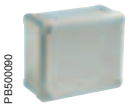
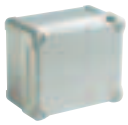
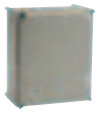
Modularity

Logical and simple range of width, height and depth dimensions, with the particularity of allowing the boxes to be coupled.

Approval

SEMKO, DEMKO, TÜV and UL.

Insulating industrial boxes
Selection guide

	 PB500090	 PB500239	 PB500240
	ABS	**Polycarbonate**	**Polyester**
	Page 224	**Page 224**	**Page 244**

Criteria \ Materials	ABS	Polycarbonate	Polyester loaded with fibreglass
Outdoor use	• (1)	•	•
Aggressive environment	•	•	• (2)
Protection rating	IP 66 IK 07	IP 66 IK 08	IP 65 IK 10
Fire resistance: glow wire IEC 60695-2-11.	650 °C	960 °C	960 °C
External dimensions (mm) DB300032	**H** 74 to 341 **W** 74 to 291 **D** 54 to 168	**H** 74 to 341 **W** 74 to 291 **D** 54 to 168	**H** 180 to 540 **W** 270 to 720 **D** 180 to 230
Universal application	•	•	•
Coupling boxes	• (3)	• (3)	•

(1) ABS boxes can be installed in outdoor if they are protected from the solar radiation and the effects of UV.
(2) See Thalassa PLS section.
(3) See accessories on pages **232** to **241**.

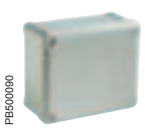
Specific

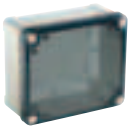
PB500241

For our customized offer, please contact us.

Insulating industrial boxes
Selection table

Universal, electronic and junction applications





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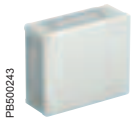


Page 230

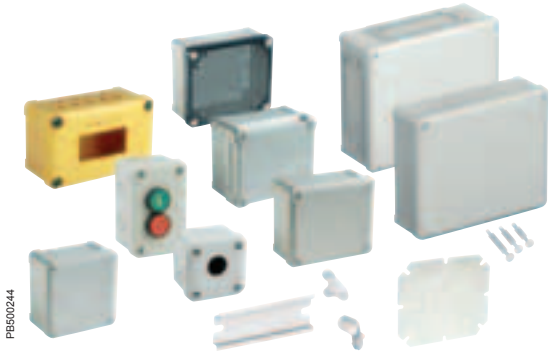
Dimensions (mm)								ABS boxes IP 66-IK 07	PC UL boxes IP 66-IK 08	Boxes with buttons
External			Internal							
Height	Width	Depth	Height	Width	Depth	Body	Lid			
74	74	54	65	65	47	37	10	•	•	•
89	89	54	80	80	47	37	10	•	•	
116	74	62	105	65	55	45	10	•	•	•
116	74	94	105	65	85	45	40	•		
116	116	62	105	105	55	45	10	•	•	
116	116	133	105	105	125	45	80	•		
138	93	72	125	80	65	45	20	•	•	
164	121	87	150	105	80	60	20	•	•	
192	121	87	175	105	80	60	20	•	•	
192	121	105	175	105	100	60	40	•	•	
192	164	87	175	150	80	60	20	•	•	
192	164	105	175	150	100	60	40	•	•	
241	194	87	225	175	80	60	20	•	•	
241	194	107	225	175	100	60	40	•	•	
241	194	107	225	175	100	80	20	•	•	
241	194	127	225	175	120	80	40	•	•	
291	241	88	275	225	80	60	20	•	•	
291	241	128	275	225	120	60	60	•	•	
291	241	128	275	225	120	100	20	•	•	
291	241	168	275	225	160	100	60	•	•	
341	291	128	325	275	120	100	20	•	•	
341	291	168	325	275	160	100	60	•	•	

Power distribution and infrastructures

See Thalassa PLS section - page 244

External dimensions (mm)			PLS boxes IP 65 - IK 10	
Height	Width	Depth	Opaque covers	Transparent covers
180	270	180	•	•
270	270	180	•	•
270	270	230	•	•
270	360	180	•	•
270	360	230	•	•
270	540	180	•	•
270	540	230	•	•
380	360	180	•	•
380	540	180	•	•
380	540	230	•	•
380	720	230	•	•
540	540	180	•	•
540	540	230	•	•
540	720	230	•	•

Thermoplastic industrial boxes
Introduction



General features

- Large range of dimensions (H, W, D).
- High or low, opaque or transparent cover.
- Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934AB**.
- Locks from box size of 116 x 116 x 62 mm:
  – Cover locking by 4 plastic captive screws with coarse thread outside the sealed area.
  – Plumbable lock.
- Locks from box size of 138 x 93 x 72 mm:
  – The standard screws (flat screwdriver) can be replaced with other standardised screws (page **238**).
- The 4 “legs” of the cover ensure its robustness and perfect support during customisation operations.
- Adaptable hinges on all the 20- and 40-mm covers (page **237**).

Materials

- ABS boxes:
  – IK 07 (2J) according to IEC 62262.
  – Glow wire resistance: 650 °C according to IEC 60695-2-11.
  – Usage temperature: –25 °C...+60 °C.
  – Installation temperature: –15 °C...+40 °C.
- Polycarbonate boxes:
  – IK 08 (5J) according to IEC 62262.
  – Glow wire resistance: 960 °C.
  – Usage temperature: –25 °C...+80 °C.
  – Installation temperature: –15 °C...+60 °C.
  – Certified according to UL 508A.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Fixing the box

- Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm.
- Through the rear of the box by 2 or 4 elongated holes to be perforated.
- With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**).

Equipment installation

- Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head).
- Option of installing rails, plates (page **240**) or other types of supports (card, etc.).
- Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment.

Technical features

- IP 66 according to IEC 60529.
- NEMA 4.4X according to Nema 250.
- Class II according to IEC 61140.
- Colour:
  – Body: RAL 7035 grey.
  – Cover: RAL 7035 grey or tinted transparent.
- Insulating, halogen-free plastic materials.
- Resistance to chemical and atmospheric agents: see technical appendices.

Thermal dissipation

- Use a suitable calculation method according to IEC 60890.
- Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box.

Thermoplastic industrial boxes
Certifications

Certifications

- IEC 62208 certified by TÜV.
- SEMKO, DEMKO.
- UL: polycarbonate range.
- Product Environmental Profile.

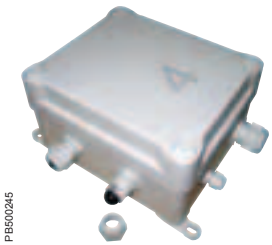
Choose the material according to the environment

- ABS for conventional applications (IK 07) with the usual constraints.
- Polycarbonate for enhanced impact resistance and for outdoor applications or applications directly exposed to UV.
- Polycarbonate certified UL.

Materials	ABS	Polycarbonate
IP	66	66
IK	07	08
Glow wire resistance	650 °C	960 °C
Standard	IEC 62208	UL 508A / IEC 62208
Usage temperature (ºC)	– 25 ... + 60 °C	– 25 ... + 80 °C
UV	+	+ + +
Chemical	+	+ + +
Halogen	None	Very low
Self-extinguishing	–	UL 94 V0

Specific

Customisation:
The boxes can be customised on request.
Choose the material according to the environment.

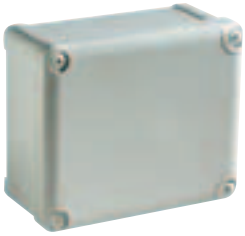


PB500245

PB500246

PB500247

Thermoplastic industrial boxes

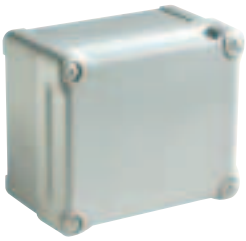

PB500090

PB500091

ABS or polycarbonate boxes with low cover

- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 54 to 128 mm deep with 10- to 20-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 20-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
										Cover		Cover	
Height	Width	Depth	Height	Width	Depth					Opaque	Transparent	Opaque	Transparent
74	74	54	65	65	47	37	10	5	Metal	**NSYTBS775**	-	**NSYTBP775**	-
89	89	54	80	80	47	37	10	5	Metal	**NSYTBS885**	-	**NSYTBP885**	-
116	74	62	105	65	55	45	10	5	Metal	**NSYTBS1176**	-	**NSYTBP1176**	-
116	116	62	105	105	55	45	10	5	Plastic	**NSYTBS11116**	-	**NSYTBP11116**	-
138	93	72	125	80	65	45	20	2	Plastic	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
164	121	87	150	105	80	60	20	2	Plastic	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
192	121	87	175	105	80	60	20	2	Plastic	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
192	164	87	175	150	80	60	20	1	Plastic	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
241	194	87	225	175	80	60	20	1	Plastic	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
241	194	107	225	175	100	80	20	1	Plastic	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
291	241	88	275	225	80	60	20	1	Plastic	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
291	241	128	275	225	120	100	20	1	Plastic	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
341	291	128	325	275	120	100	20	1	Plastic	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**


PB500239

PB500248

ABS or polycarbonate boxes with high cover

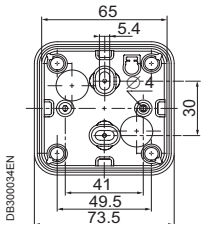
- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 94 to 168 mm deep with 40- to 80-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 40-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
										Cover		Cover	
Height	Width	Depth	Height	Width	Depth					Opaque	Transparent	Opaque	Transparent
116	74	94	105	65	85	45	40	3	Metal	**NSYTBS1179H**	-	-	-
116	116	133	105	105	125	45	80	2	Plastic	**NSYTBS111113H**	-	-	-
192	121	105	175	105	100	60	40	2	Plastic	**NSYTBS191210H**	**NSYTBS191210HT**	**NSYTBP191210H**	**NSYTBP191210HT**
192	164	105	175	150	100	60	40	1	Plastic	**NSYTBS191610H**	**NSYTBS191610HT**	**NSYTBP191610H**	**NSYTBP191610HT**
241	194	107	225	175	100	60	40	1	Plastic	**NSYTBS241910H**	**NSYTBS241910HT**	**NSYTBP241910H**	**NSYTBP241910HT**
241	194	127	225	175	120	80	40	1	Plastic	**NSYTBS241912H**	**NSYTBS241912HT**	**NSYTBP241912H**	**NSYTBP241912HT**
291	241	128	275	225	120	60	60	1	Plastic	**NSYTBS292412H**	**NSYTBS292412HT**	**NSYTBP292412H**	**NSYTBP292412HT**
291	241	168	275	225	160	100	60	1	Plastic	**NSYTBS292416H**	**NSYTBS292416HT**	**NSYTBP292416H**	**NSYTBP292416HT**
341	291	168	325	275	160	100	60	1	Plastic	**NSYTBS342916H**	**NSYTBS342916HT**	**NSYTBP342916H**	**NSYTBP342916HT**

Thermoplastic industrial boxes
Dimensions

Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775

Interior



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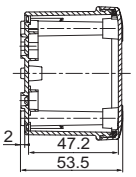
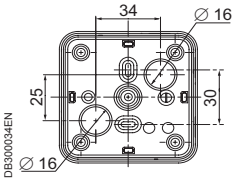
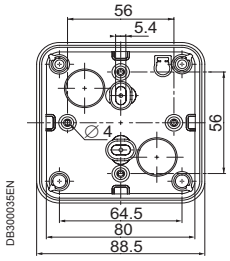


Rear



Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885

Interior



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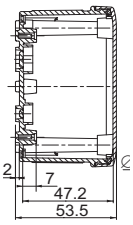
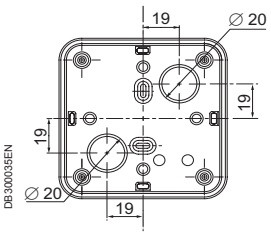
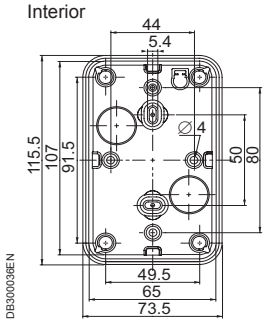


Rear



Box of 116 x 74 x 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179

Interior



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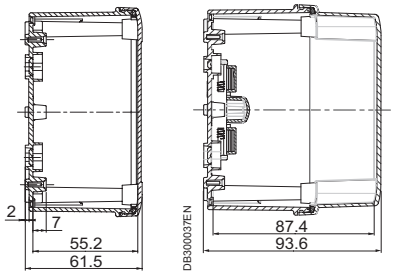

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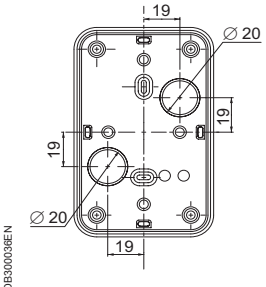
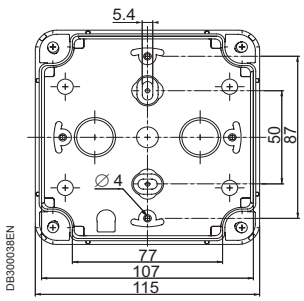


Box of 116 x 116 x 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...111113

Interior



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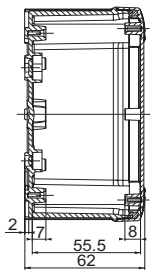

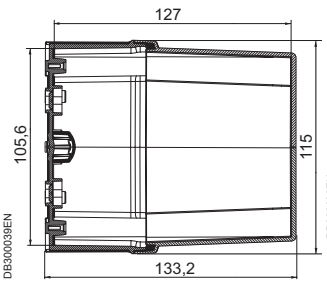

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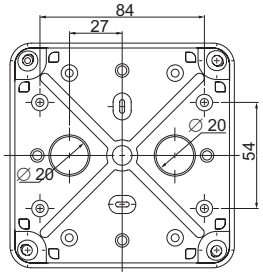
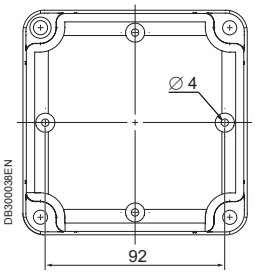
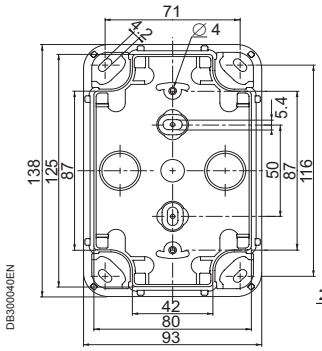


Cover

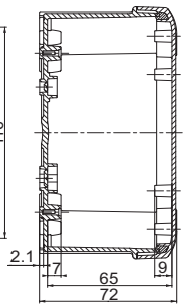


Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397

Interior



Side



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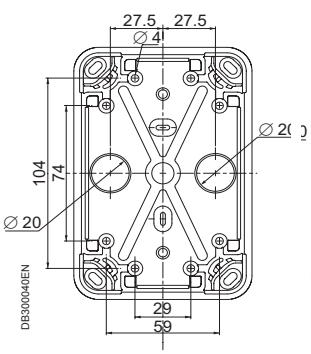

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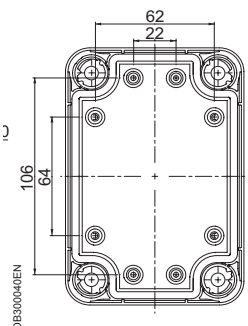
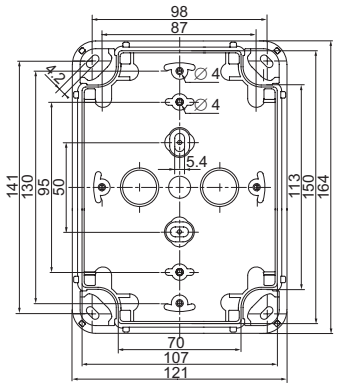


Thermoplastic industrial boxes
Dimensions

Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128

Interior



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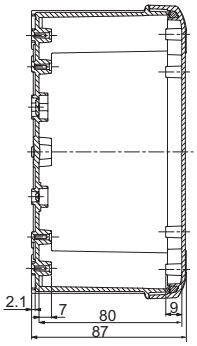
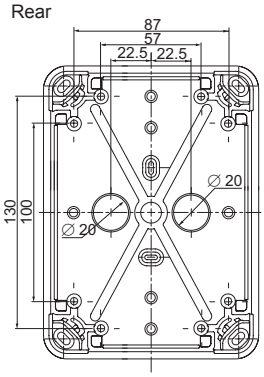
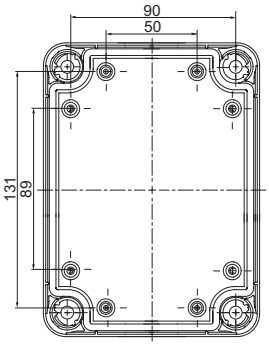


Rear



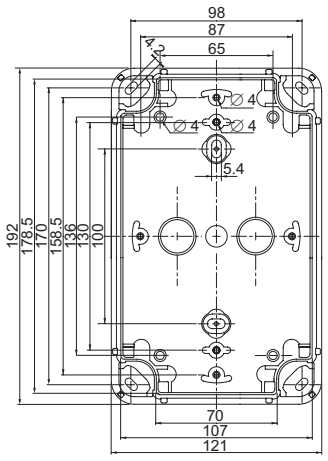
Cover



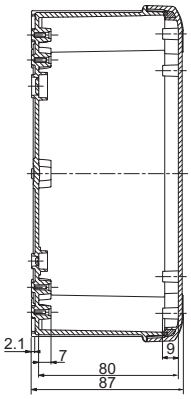
DB300041EN

Box of 192 x 121 x 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210

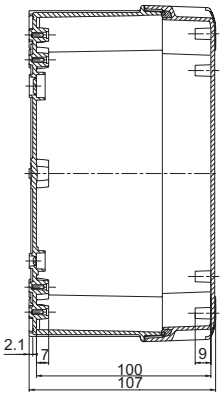
Interior



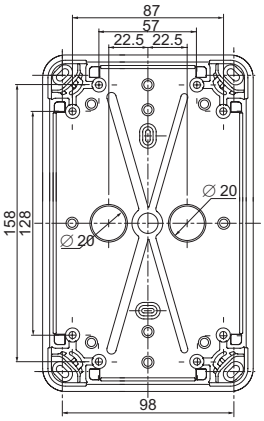
Side
Height 80 mm
(60 + 20)

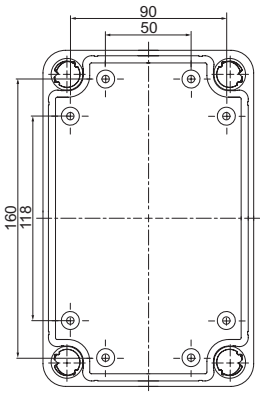


Rear
Height 100 mm
(60 + 40)



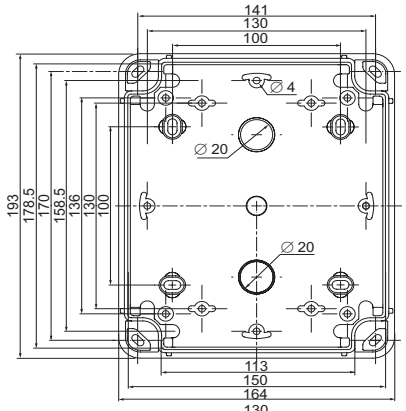
Cover



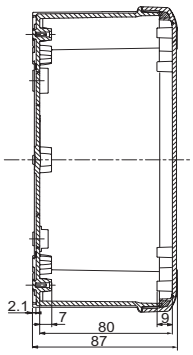


DB300042EN

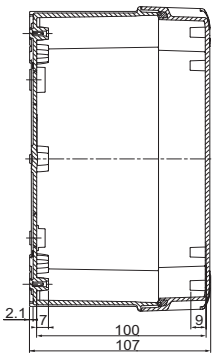
Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610

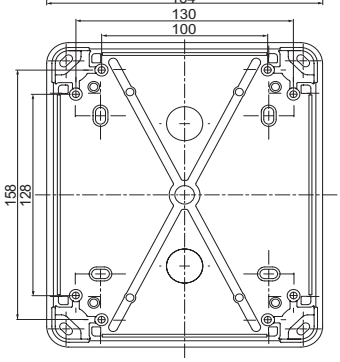


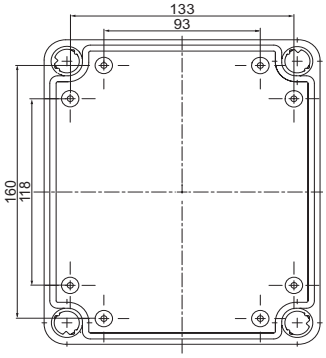
Height 80 mm
(60 + 20)



Height 100 mm
(60 + 40)



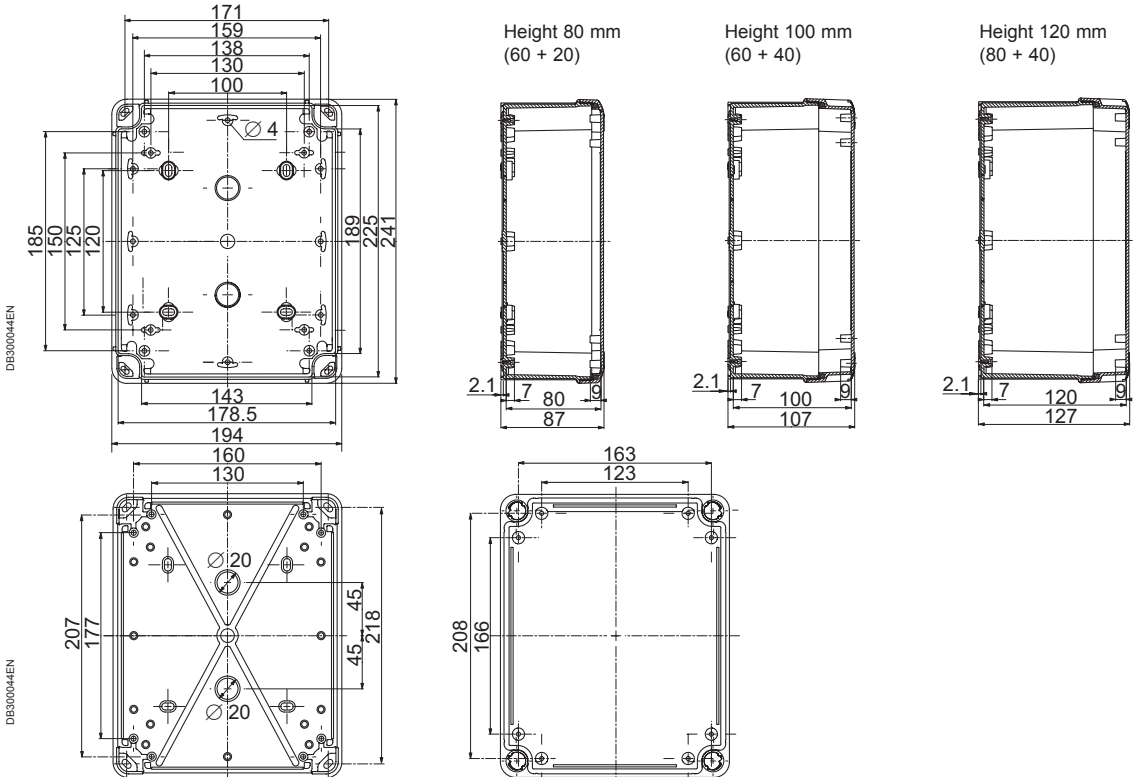




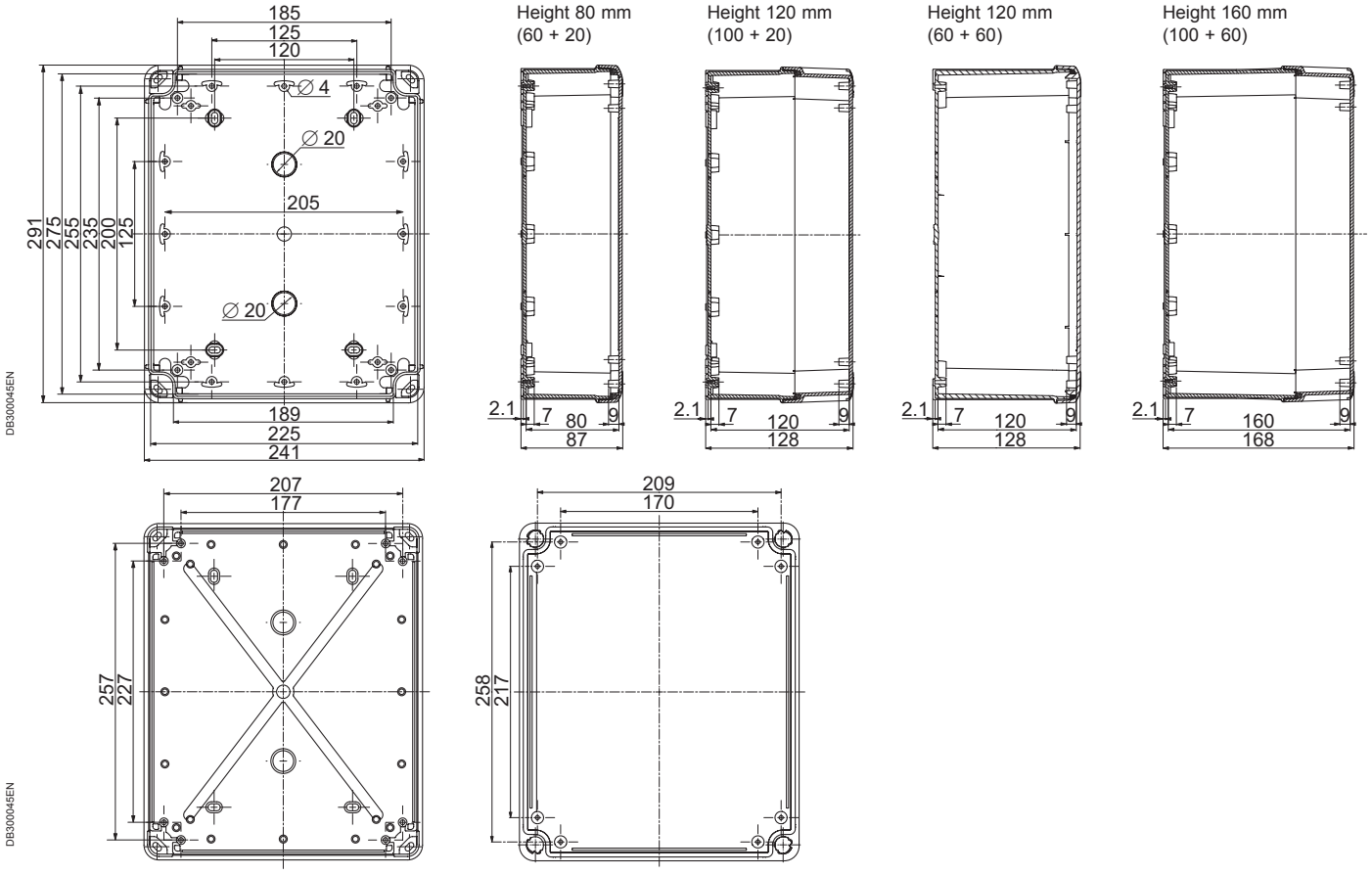
DB300043EN

Thermoplastic industrial boxes
Dimensions

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912

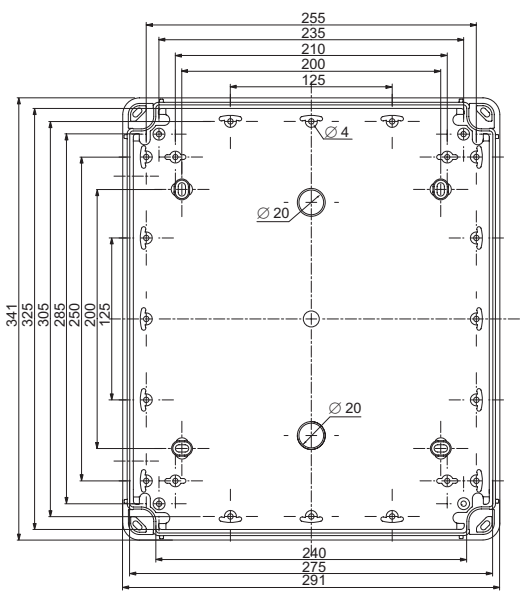


Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416

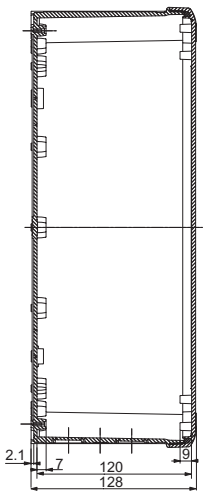


Thermoplastic industrial boxes
Dimensions

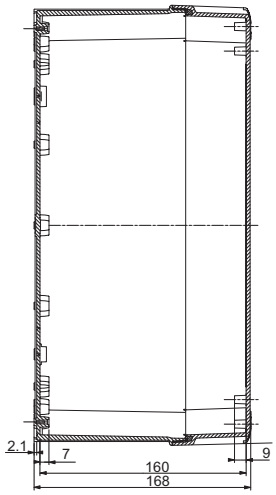
Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916

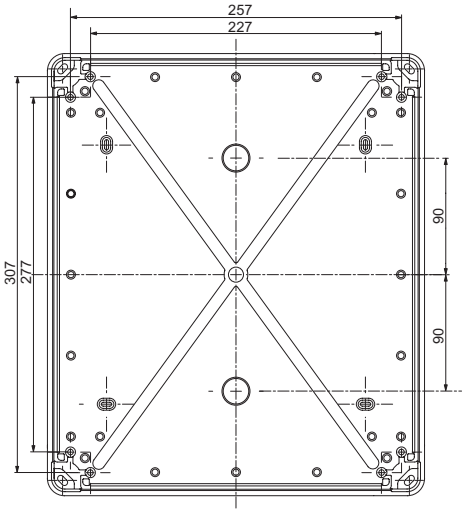


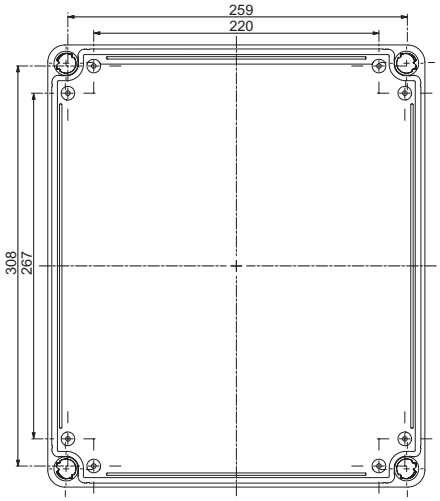
Height 120 mm
(100 + 20)



Height 160 mm
(100 + 60)







DB300046EN

Thermoplastic industrial boxes
Dimensions summary table

For box dimensions 125 x 80 x 65 to 325 x 275 x 160 (internal dimensions)

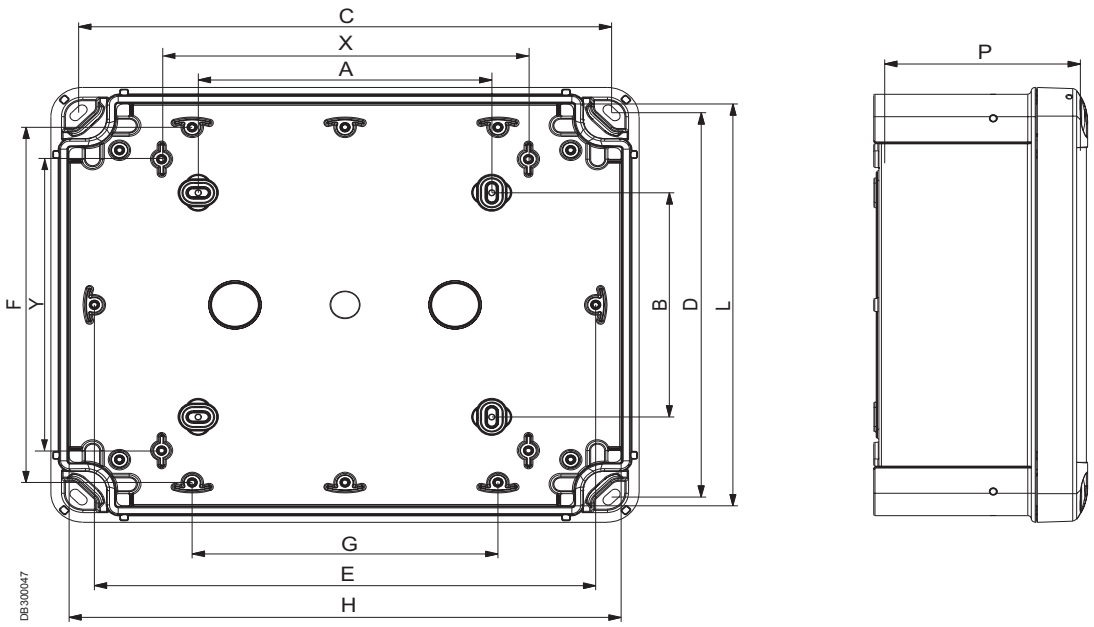
Internal dimensions (mm)			Fixing of the box (mm) (marking on the outside)				Fixing of accessories (mm) (marking on the inside)					Box reference base with and without transparent cover*	
H	L	P	A	B	C	D	E	F	G	X	Y		
65	65	47	30	-	-	-	-	41	-	-	-	NSYTBS775	NSYTBP775
80	80	47	30	-	-	-	56	56	-	-	-	NSYTBS885	NSYTBP885
105	65	55	50	-	-	-	80	44	-	-	-	NSYTBS1176	NSYTBP1176
105	65	85	50	-	-	-	80	44	-	-	-	NSYTBS1179H	-
105	105	55	50	-	-	-	87	87	-	-	-	NSYTBS11116	NSYTBP11116
105	105	125	50	-	-	-	87	87	-	-	-	NSYTBS111113H	-
125	80	65	50	-	116	71	87	-	-	-	-	NSYTBS1397	NSYTBP1397
150	105	80	50	-	141	98	130	87	-	95	-	NSYTBS16128	NSYTBP16128
175	105	80	100	-	170	98	158.5	87	-	136	-	NSYTBS19128	NSYTBP19128
175	105	100	100	-	170	98	158.5	87	-	136	-	NSYTBS191210H	NSYTBP191210H
175	150	80	100	100	170	141	158.5	130	-	136	65	NSYTBS19168	NSYTBP19168
175	150	100	100	100	170	141	158.5	130	-	136	65	NSYTBS191610H	NSYTBP191610H
225	175	80	120	100	218	171.5	205	158.5	125	150	130	NSYTBS24198	NSYTBP24198
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910H	NSYTBP241910H
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910	NSYTBP241910
225	175	120	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241912H	NSYTBP241912H
275	225	80	200	120	268.5	218.5	255	205	125	221	161	NSYTBS29248	NSYTBP29248
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412H	NSYTBP292412H
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412	NSYTBP292412
275	225	160	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292416H	NSYTBP292416H
325	275	120	200	200	319	269	305	255	125	250	210	NSYTBS342912	NSYTBP342912
325	275	160	200	200	319	269	305	255	125	250	210	NSYTBS342916H	NSYTBP342916H

*Identical features for the boxes with transparent covers. Add a T at the end of the reference.

H: Height

L: Width

P: Depth



Thermoplastic industrial boxes

PB500249

NSYTBS775B1Y (1)

PB500250

NSYTBS1176B2

PB500242

NSYTBS1176B3

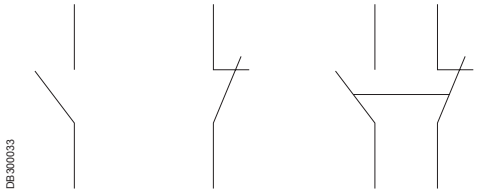
Boxes equipped with IP 54 ABS buttons

Overall external dimensions (mm)			Minor pack.	Reference
Height	Width	Depth		
74	74	83	1	**NSYTBS775B1Y** (1)
116	74	75	1	**NSYTBS1176B2**
116	74	75	1	**NSYTBS1176B3**

(1) Ref. **NSYTBS775B1Y** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:

– "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K.
– Mechanical durability of the emergency switch: 0.1 million cycles.
– Mechanical durability of the "NC" and "NO" switches: 5 million cycles.
– Protection against short circuits: 10 A.


DB300033

N/O **N/C** **C/O**

Function	Type			
	"NO"	"NC"	"C / O"	Type of push
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red

PB500251

PB500252

PB500253

ABS button boxes, to be equipped

Overall internal dimensions (mm)					Overall external dimensions (mm)				Minor pack.	Grill
H.	W.	D.	Body	Cover	H.	W.	D.			
65	65	45	35	10	74	74	54	1 hole	5	**NSYTBS775C1**
65	65	45	35	10	74	74	54	1 hole	5	**NSYTBS775C1Y** (1)
105	65	55	45	10	116	74	62	2 holes	5	**NSYTBS1176C2**
105	65	55	45	10	116	74	62	3 holes	5	**NSYTBS1176C3**

(1) Yellow "emergency switching off" box.

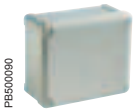
- IK 07.
- RAL 7035 grey and RAL 1021 yellow, "emergency switching off".
- Diameter of the button holes: 22.5 mm.
- Flush-mounting cable entries for ISO cable gland (page **235**).
- 4 entries with 20-mm diameter on the 1-button box.
- 6 entries with 20-mm diameter on the 2 and 3-button boxes.

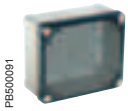
Practical

- Ready-to-use boxes.

Thermoplastic industrial boxes
Selection guide

Universal boxes with IP 66





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Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
								ABS IP 66 IK 07		PC-UL IP 66 IK 08	
Height	Width	Depth	Height	Width	Depth			Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	**NSYTBS775**	-	**NSYTBP775**	-
89	89	54	80	80	47	37	10	**NSYTBS885**	-	**NSYTBP885**	-
116	74	62	105	65	55	45	10	**NSYTBS1176**	-	**NSYTBP1176**	-
116	74	94	105	65	85	45	40	**NSYTBS1179H**	-	-	-
116	116	62	105	105	55	45	10	**NSYTBS11116**	-	**NSYTBP11116**	-
116	116	133	105	105	125	45	80	**NSYTBS111113H**	-	-	-
138	93	72	125	80	65	45	20	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
164	121	87	150	105	80	60	20	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
192	121	87	175	105	80	60	20	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
192	121	105	175	105	100	60	40	**NSYTBS191210H**	**NSYTBS191210HT**	**NSYTBP191210H**	**NSYTBP191210HT**
192	164	87	175	150	80	60	20	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
192	164	105	175	150	100	60	40	**NSYTBS191610H**	**NSYTBS191610HT**	**NSYTBP191610H**	**NSYTBP191610HT**
241	194	87	225	175	80	60	20	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
241	194	107	225	175	100	80	20	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
241	194	107	225	175	100	60	40	**NSYTBS241910H**	**NSYTBS241910HT**	**NSYTBP241910H**	**NSYTBP241910HT**
241	194	127	225	175	120	80	40	**NSYTBS241912H**	**NSYTBS241912HT**	**NSYTBP241912H**	**NSYTBP241912HT**
291	241	88	275	225	80	60	20	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
291	241	128	275	225	120	100	20	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
291	241	128	275	225	120	60	60	**NSYTBS292412H**	**NSYTBS292412HT**	**NSYTBP292412H**	**NSYTBP292412HT**
291	241	168	275	225	160	100	60	**NSYTBS292416H**	**NSYTBS292416HT**	**NSYTBP292416H**	**NSYTBP292416HT**
341	291	128	325	275	120	100	20	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**
341	291	168	325	275	160	100	60	**NSYTBS342916H**	**NSYTBS342916HT**	**NSYTBP342916H**	**NSYTBP342916HT**

ABS boxes for buttons, to be equipped

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External dimensions (mm)			Number of holes	Cover	Ref.
Height	Width	Depth			
74	74	54	1	Grey	**NSYTBS775C1**
74	74	54	1	Yellow	**NSYTBS775C1Y**
116	74	62	2	Grey	**NSYTBS1176C2**
116	74	62	3	Grey	**NSYTBS1176C3**

Equipped button boxes, in ABS with IP 54

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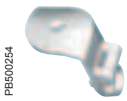
External dimensions (mm)				
Height	Width	Depth		Reference
74	74	83	Emergency switching off	**NSYTBS775B1Y**
116	74	75	Start/stop	**NSYTBS1176B2**
116	74	75	Up / down / stop	**NSYTBS1176B3**

Thermoplastic industrial boxes
Accessory selection guide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Overall external dimensions (mm)			Overall internal dimensions (mm)			Set of 2 hinges	Set of 4 fixing lugs	Galvanised-steel plate	Insulating plate	Terminal-block support bar
Height	Width	Depth	Height	Width	Depth					
74	74	54	65	65	47	-	-	-	-	-
89	89	54	80	80	47	-	-	-	-	-
116	74	62	105	65	55	-	-	-	-	-
116	116	62	105	105	55	-	**NSYAEFTB**	-	-	-
138	93	72	125	80	65	**NSYAEDH20TB**	**NSYAEFTB**	-	-	-
164	121	87	150	105	80	**NSYAEDH20TB**	**NSYAEFTB**	-	-	-
192	121	87	175	105	80	**NSYAEDH20TB**	**NSYAEFTB**	-	-	**IMT34000**
192	121	105	175	105	100	**NSYAEDH40TB**	**NSYAEFTB**	-	-	**IMT34000**
192	164	87	175	150	80	**NSYAEDH20TB**	**NSYAEFTB**	**NSYAMPM1916TB**	**NSYAMPA1916TB**	**IMT34000**
192	164	105	175	150	100	**NSYAEDH40TB**	**NSYAEFTB**	**NSYAMPM1916TB**	**NSYAMPA1916TB**	**IMT34000**
241	194	87	225	175	80	**NSYAEDH20TB**	**NSYAEFTB**	**NSYAMPM2419TB**	**NSYAMPA2419TB**	**IMT34000** or **IMT34001**
241	194	107	225	175	100	(1) **NSYAEDH20TB** or **NSYAEDH40TB**	**NSYAEFTB**	**NSYAMPM2419TB**	**NSYAMPA2419TB**	**IMT34000** or **IMT34001**
241	194	127	225	175	120	**NSYAEDH40TB**	**NSYAEFTB**	**NSYAMPM2419TB**	**NSYAMPA2419TB**	**IMT34000** or **IMT34001**
291	241	88	275	225	80	**NSYAEDH20TB**	**NSYAEFTB**	**NSYAMPM2924TB**	**NSYAMPA2924TB**	**IMT34001** or **IMT34002**
291	241	128	275	225	120	-	**NSYAEFTB**	**NSYAMPM2924TB**	**NSYAMPA2924TB**	**IMT34001** or **IMT34002**
291	241	128	275	225	120	(1) **NSYAEDH20TB** or -	**NSYAEFTB**	**NSYAMPM2924TB**	**NSYAMPA2924TB**	**IMT34001** or **IMT34002**
291	241	168	275	225	160	-	**NSYAEFTB**	**NSYAMPM2924TB**	**NSYAMPA2924TB**	**IMT34001** or **IMT34002**
341	291	128	325	275	120	**NSYAEDH20TB**	**NSYAEFTB**	**NSYAMPM3429TB**	**NSYAMPA3429TB**	**IMT34002**
341	291	168	325	275	160	-	**NSYAEFTB**	**NSYAMPM3429TB**	**NSYAMPA3429TB**	**IMT34002**

(1) Several cover depths for the same external dimensions.

Anti-corrosion valve and coupling kit

Page 242 and page 233

IP66 ventilation and coupling accessories	Ref.
Valve, 16 litres/h, Ø 12	**NSYCAG12LPH1**
Valve, 120 litres/h, Ø 12	**NSYCAG12LPH2**
Coupling kit, Ø 32	**13934**

Fixings

Screw **NSYAMFESTB**
Stand-offs or spacer
Page 240

Stand-offs and spacers	Ref.
Set of four 15-mm spacers	**NSYAMFEP154TB**
Set of four 20-mm spacers	**NSYAMFEP204TB**
Set of four 30-mm spacers	**NSYAMFEP304TB**
Set of four 15-mm self-tapping stand-offs	**NSYAMFET154TB**
Set of four 20-mm self-tapping stand-offs	**NSYAMFET204TB**
Set of four 30-mm self-tapping stand-offs	**NSYAMFET304TB**
Batch of 50 M4 screws for stand-offs and spacers	**NSYAMFESTB**

Screws for accessories	Ref.
Pack of 100 4-mm Pozidrive and slotted self-tapping screws	**NSYAMFSTB**

Cable glands and quick entries

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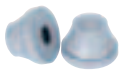
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	M12	M16	M20	M25	M32	M40
IP 68 cable glands (1)	**ISM71501**	**ISM71502**	**ISM71503**	**ISM71504**	**ISM71505**	**ISM71506**
IP 67 quick entries (2)	**IMT36179**	**IMT36180**	**IMT36181**	**IMT36182**	**IMT36183**	**IMT36184**

(1) Other dimensions (see page **235**).
(2) Other dimensions (see page **234**).

Terminal blocks

DIN rail terminal blocks	Screw connection	Spring connection	Insulation displacement connection
Passthrough, 2 x 2.5 mm², grey	**AB1VV235U**	**AB1RRN235U2GR**	**AB1AA235U2GR**
Passthrough, 2 x 4 mm², grey	**AB1VV435U**	**AB1RRN435U2GR**	-
Protective earth, 2 x 2.5 mm²	**AB1TP235U**	**AB1RRNTP235U2**	**AB1AATP235U2**

4-hole terminal blocks	Black (live)	Blue (neutral)	Green (earth)
2 x 10^2 + 2 x 16^2	**IMT34003**	**IMT34005**	**IMT34007**
3 x 16^2 + 1 x 25^2	**IMT34004**	**IMT34006**	**IMT34008**

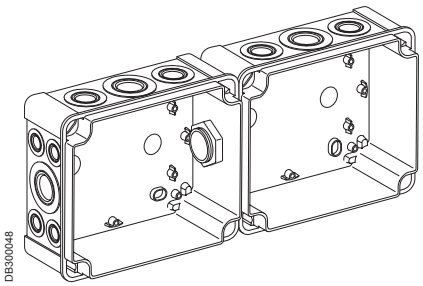
Composition accessories
Coupling accessories

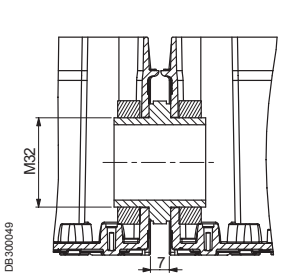
PB600260

Coupling kit

- The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm, while keeping IP 66.
- The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled.
- The kit consists of 2 linking parts, nuts and seals.

Description	Minor pack.	Reference
Coupling kit	1	**13934**


DB300048



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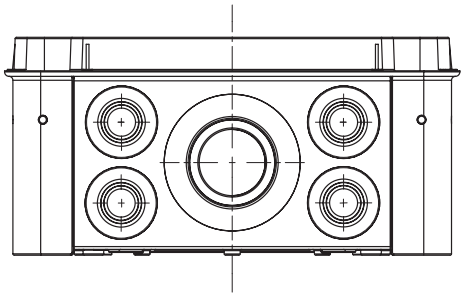
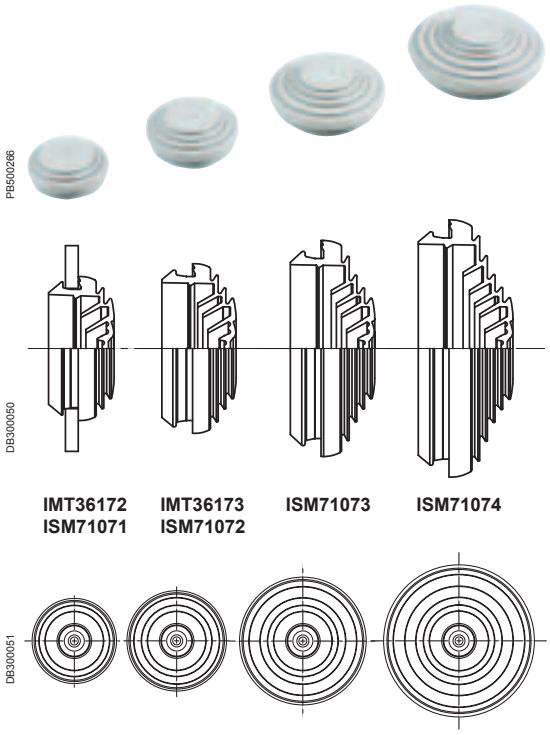


Composition accessories
Cable-entry accessories



Mixed membrane entries for IP 55 direct cable entries

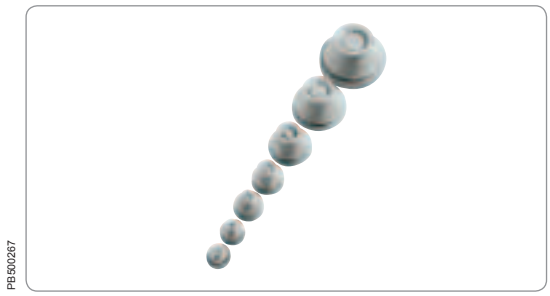
Common accessories for the Thalassa and Spacial offers

- Membrane entries with multiple membranes.
- IP 55.
- RAL 7035.
- Patented concentric cutting. A simple screwdriver is enough. Enables ultra-quick connection with the choice of several cable diameters for the same membrane entry.
- Material: SBS.
- Minor packaging of 10 pieces.
- Warning: The IP becomes 55.
- Suitable for walls from 2 to 3.2 mm.

Ø (mm)		Minor pack.	References and colours	
Drill hole	Cable / conduit		RAL 9010 white	RAL 7035 light grey
23	4 - 20	10	**IMT36172**	**ISM71071**
29	4 - 25	10	**IMT36173**	**ISM71072**
36	4 - 32	10	-	**ISM71073**
44	4 - 40	10	-	**ISM71074**

Installation of IP 55 entries

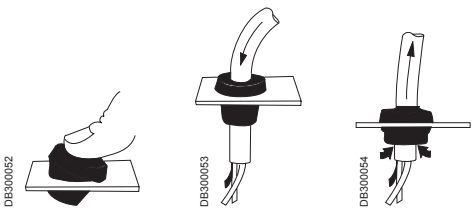
- Insertion of rigid cables:
– Strip at least 100 mm.
– Push the wires through the membrane.
- Insertion of flexible cables:
- Pierce partially and soften the membrane with a 4 to 5.5-mm screwdriver.
– Pass the cable through the membrane.
- Insertion of conduits:
– Peel the necessary step: 16, 20, 25, 32 or 40 mm.
– Push the conduit.



IP 67 quick cable entries

- IP 67.
- Material: EPDM plastic.
- Suitable for walls from 1 to 4 mm (0.5 to 2 mm for ref. **IMT36179**).
- Quick installation with no tools.
- Installation direction: the conical part is inside the box.

ISO	Ø of drill hole	Cable Ø (mm)	Minor pack.	Reference
M12	12.5	3 - 5	50	**IMT36179**
M16	16	5 - 7	50	**IMT36180**
M20	20.3	7 - 10	50	**IMT36181**
M25	25.3	10 - 14	50	**IMT36182**
M32	32.4	14 - 20	50	**IMT36183**
M40	40.7	20 - 26	25	**IMT36184**
M50	50.7	26 - 35	25	**IMT36185**



Application

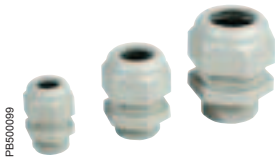
- Push the cable entry into the hole. The conical part must be inserted into the box.
- Prepare and loosen the cable entry with a screwdriver. Pass the cable through the cable entry.
- Pull the cable back slightly to fix it in place. The installation is complete.

Composition accessories
Cable-entry accessories

Cable-gland, disc and plug selection table

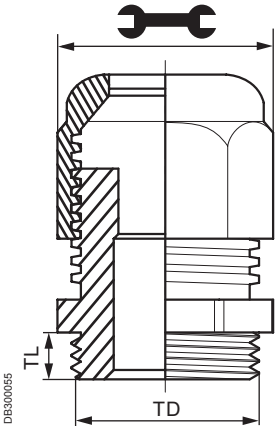
Ø	1-cable cable gland			Multi-cable disc		Gasket	Blanking plug	Transport plug
	Ref.	Ø min / max (mm)	drill \ (2)	Ref.	Number / Ø (mm)			
M12	**ISM71501**	3 / 6.5	12.2 (0 + 0.2)	-	-	**IMT36151**	**IMT36161**	-
M16	**ISM71502**	4 / 8	16.2 (0 + 0.2)	**IMT36157**	2 x Ø 4	**IMT36152**	**IMT36162**	**IMT36167**
M20	**ISM71503**	6 / 12	20.2 (0 + 0.2)	**IMT36158**	3 x Ø 4	**IMT36153**	**IMT36163**	**IMT36168**
M20 (1)	**IMT36150**	6 / 12	20.2 (0 + 0.2)	**IMT36158**	3 x Ø 4	**IMT36153**	**IMT36163**	**IMT36168**
M25	**ISM71504**	11 / 17	25.2 (0 + 0.2)	**IMT36159**	4 x Ø 5	**IMT36154**	**IMT36164**	**IMT36169**
M32	**ISM71505**	15 / 21	32.2 (0 + 0.3)	**IMT36160**	6 x Ø 5	**IMT36155**	**IMT36165**	**IMT36170**
M40	**ISM71506**	19 / 28	40.5 (0 + 0.3)	-	-	**IMT36156**	**IMT36166**	**IMT36171**

(1) Cable-gland with high resistance to fire.
(2) In brackets: tolerance.

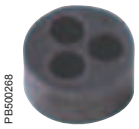


ISO cable-gland

Ø	Reference	TD	TL		Thread
M12	**ISM71501**	12	6	15	1.5
M16	**ISM71502**	16	8	19	1.5
M20	**ISM71503 - IMT36150**	20	10	24	1.5
M25	**ISM71504**	25	8	29	1.5
M32	**ISM71505**	32	10	36	1.5
M40	**ISM71506**	40	10	46	1.5



- IP 68, 5 bars.
- According to standard IEC 62208.
- RAL 7035 grey.
- Material: PA6, neoprene gasket.
- Usage temperature: – 30 ... + 80 °C up to + 150 °C intermittently.
- The cable-glands are supplied with nuts.
- The IP is guaranteed with no gasket between the cable-gland and the thermoplastic box. A gasket available as an accessory guarantees the seal in the event of installation on a steel enclosure.
- The cable-gland (ref. **IMT36150**) is especially recommended for security circuits (glow wire resistance: 960 °C).
- Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40).



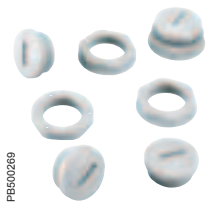
Multi-cable disc

Cable-gland gasket

- Batch of 100 (M12 to M25), 50 (M32), 25 (M40).

Multi-cable disc

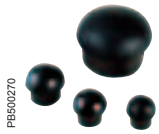
- It is possible to pass several cables through a single cable-gland using the multi-cable bushing.



Blanking plug

Blanking plug

- It is screwed into the cable-gland's place.
- Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40).



Transport plug

Transport plug

- It is installed to block the cable-gland during transport or during maintenance operations.
- Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40).

Composition accessories
Fixing accessories

PB500271

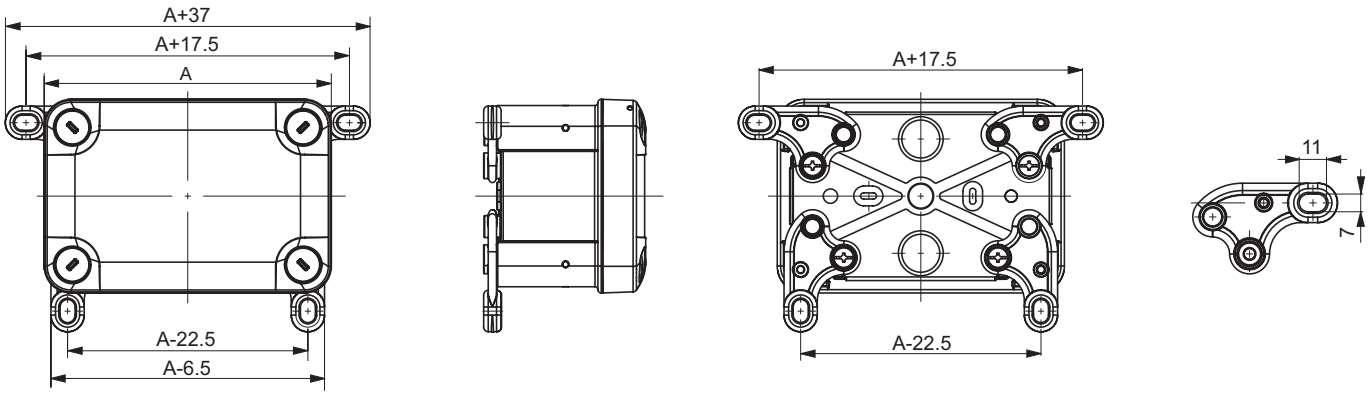
PB500272

Set of four fixing lugs

- They maintain IP 66.
- Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm.
- Option of vertical or horizontal installation.
- Kit made up of 4 legs + screws.
- Installation by a single screw at the last moment, with the box closed and equipped.
- Loading capacity on the body: 30 kg/m², on the cover: 10 kg/m².
- See compatibility with the boxes in the table for quick selection of Thalassa accessories on page **232**.

Description	Minor pack.	Reference
Set of 4 fixing lugs	1	**NSYAEFTB**

Fixing lugs (internal dimensions)



DB3000556EN

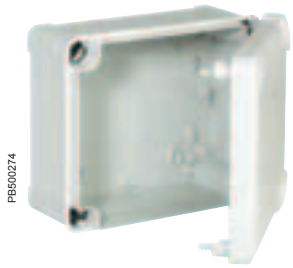
Composition accessories
Cover accessories

PB500273

Set of 2 hinges

- These hinges maintain IP 66.
- The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm.
- The hinge allows the lid to open fully to 200°.
- Maximum admissible load on the hinged cover 10 kg / m^2.
- The hinges (2 per set) are delivered with the fixings and instructions required for installation.
- See compatibility with the boxes in the quick selection table on page **232**.

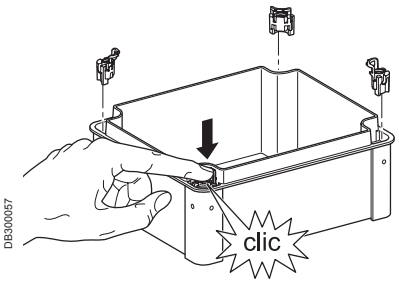
Name	Minor pack.	Height of the lid (mm)	
		20	40
Set of 2 hinges	1	NSYAEDH20TB	NSYAEDH40TB


PB500274

Practical

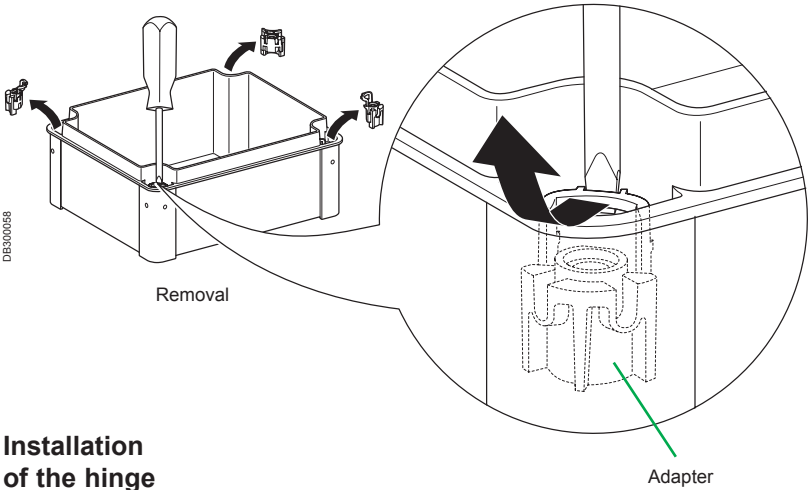
- The hinge allows an opening angle > 200°.
- The hinge does not require any machining and is installed easily even with the box already equipped.

Use of cover adapter clips



DB300057

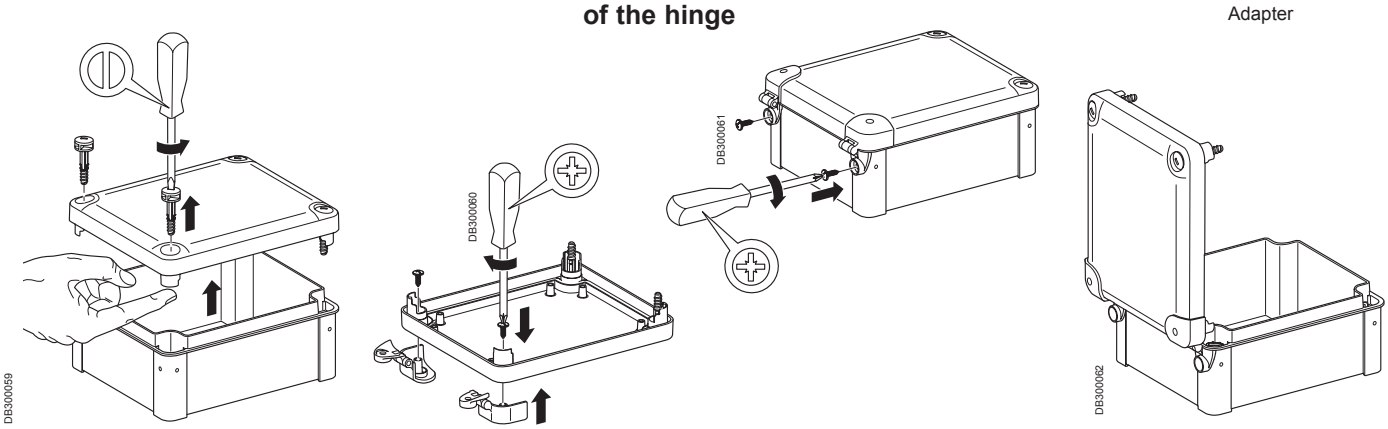
Mounting



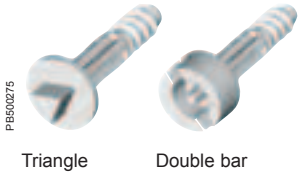
DB300058

Removal

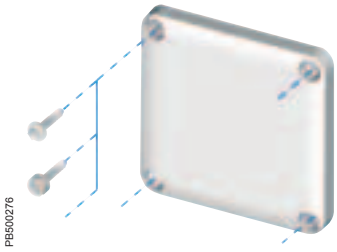
Installation of the hinge



Composition accessories
Cover accessories



Triangle Double bar



Set of 4 shape screws

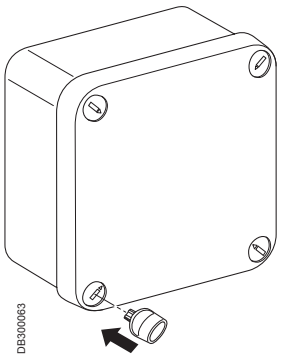
- The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm.
- With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases.
- After removing the standard screw, simply position the new screw by pressing on it.
- The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page **237**).

Smart

- A single key for opening the boxes as well as the other enclosures of your installation.

Description		Minor pack.	Height of the lid (mm)		
			20	40	60
Triangle	6.5 mm	1	**NSYAEDST620TB** (1)	-	-
	8 mm	1	**NSYAEDST820TB**	-	-
Double bar	3 mm	1	**NSYAEDSB320TB**	-	-
	5 mm	1	**NSYAEDSB520TB**	-	-
Spare standard plastic screw		1	**NSYAEDS20TB**	**NSYAEDS40TB**	**NSYAEDS60TB**

(1) CNOMO.



Pack of 4 handles

- The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges.
- It snaps onto the head of the standard plastic screw.

Description	Minor pack.	Reference
Pack of 4 handles	1	**NSYAEDKTB**

Mounting accessories
Installation accessories

PB500256

Galvanised-steel plate.

PB500257

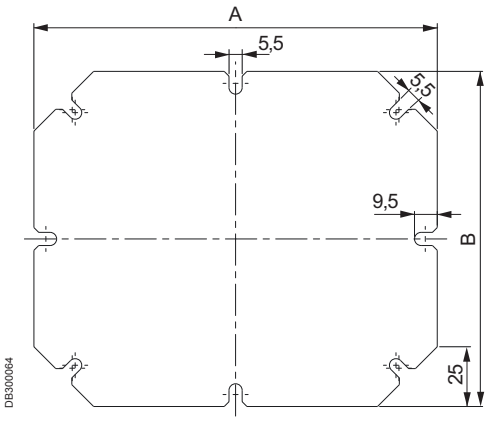
Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750 °C.

Mounting plates

- Mounting plates made from galvanised-steel (thickness: 1.5 mm) and an insulating material (polyester thickness: 2.5 mm) to adapt to all usage scenarios. Plates supplied without screws.
- Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**.
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.
- To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**.

Box (mm)		Mounting plate				Minor pack.
		Steel	Insulating	Dimensions (mm)		
Height	Width			A	B	
192	164	**NSYAMPM1916TB**	**NSYAMPA1916TB**	168.5	140	1
241	194	**NSYAMPM2419TB**	**NSYAMPA2419TB**	215	168.5	1
291	241	**NSYAMPM2924TB**	**NSYAMPA2924TB**	265	215	1
341	291	**NSYAMPM3429TB**	**NSYAMPA3429TB**	315	265	1
Pack of 100 screws Ø 4 x 10 mm		**NSYAMFSTB**	**NSYAMFSTB**	-		1

DB300064

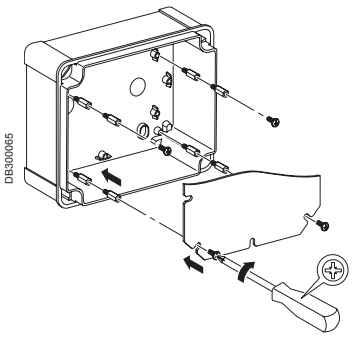


Stand-offs and spacers

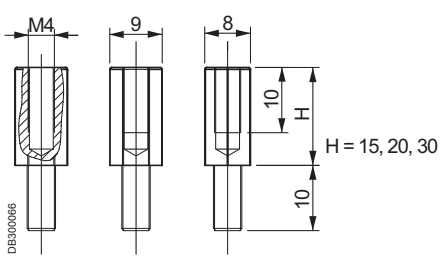
- Steel stand-offs consisting of a Ø 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.
- Steel spacer for installation on the stand-offs. M4 thread and tapping.

Height (mm)	Set of four M4 self-tapping stand-offs	Set of four M4 spacers	Minor pack.
15	**NSYAMFET154TB**	**NSYAMFEP154TB**	1
20	**NSYAMFET204TB**	**NSYAMFEP204TB**	1
30	**NSYAMFET304TB**	**NSYAMFEP304TB**	1

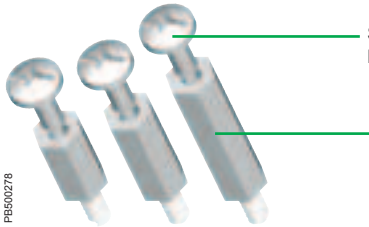
DB300065



DB300066



Mounting accessories
Installation accessories



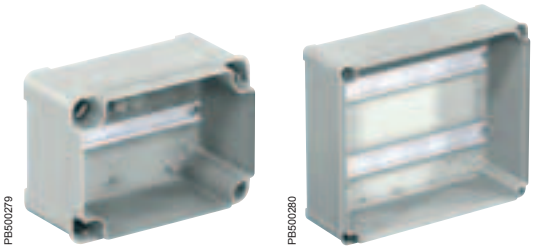
Screw for stand-offs and spacers

- M4 x 10 mm screw for fixing cards on the spacers and stand-offs.
- Batch of 50 screws.

Smart

- The plate always at the right level.
- A single Ø 4-mm screw for fixing any element.

Description	Minor pack.	Reference
Batch of 50 ISO screws, Ø 4 x 100, for M4 spacer and stand-offs	1	**NSYAMFESTB**



Box with
15 x 5-mm rail

Box with two
35 x 7.5-mm rails

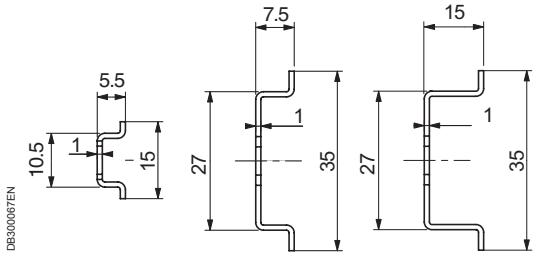
Rails

Smart

- A 15 x 5-mm rail is provided for the compact terminal blocks.
- To raise the rail, use stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.

Rails

- Symmetric DIN rails (15 x 5 mm, 35 x 7.5 mm, 35 x 15 mm). Supplied without screws (except for the 15 x 5 mm rails).
- Fixing of the rails with Ø 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. **NSYAMFSTB**.



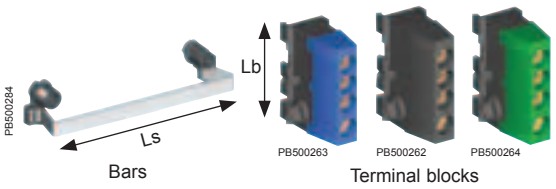
15 x 5 | 35 x 7.5 | 35 x 15

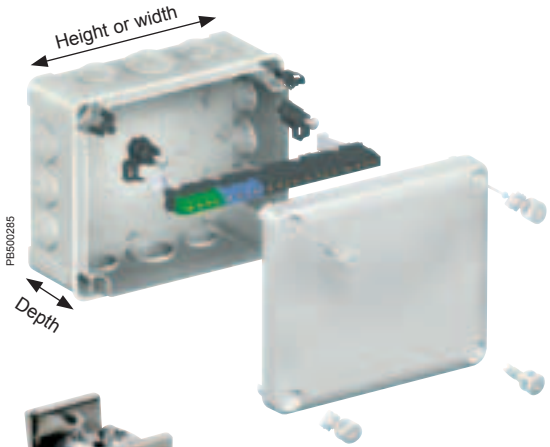
15 x 5 mm	35 x 7.5 mm	35 x 15 mm

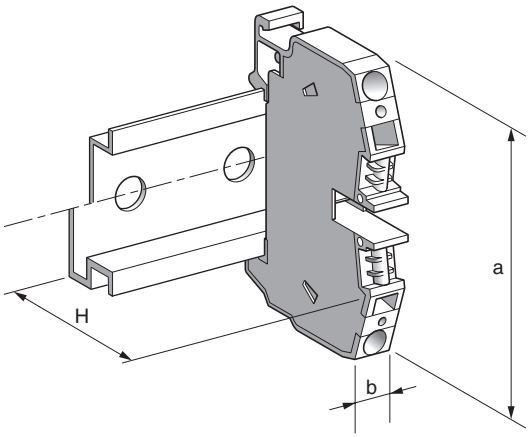
For boxes with height or width						
(mm)	Ref.	Minor pack.	Ref.	Minor pack.	Ref.	Minor pack.
105	**NSYAMRD11155TB**	10	**NSYAMRD11357TB**	10	-	-
150	**NSYAMRD16155TB**	10	**NSYAMRD16357TB**	10	-	-
175	**NSYAMRD19155TB**	10	**NSYAMRD19357TB**	10	-	-
225	**NSYAMRD24155TB**	10	**NSYAMRD24357TB**	10	**NSYAMRD243515TB**	10
275	**NSYAMRD29155TB**	10	**NSYAMRD29357TB**	10	**NSYAMRD293515TB**	10
325	**NSYAMRD34155TB**	10	**NSYAMRD34357TB**	10	**NSYAMRD343515TB**	10

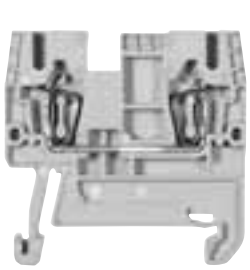
Pack of 100 screws Ø 4 x 10 mm: ref. **NSYAMFSTB**.

Cable management accessories
Terminal blocks









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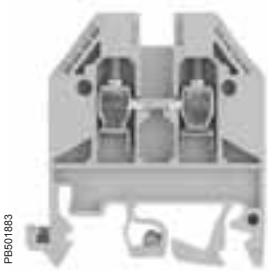


AB1VV

Discover our complete terminal blocks range in **MKTED207011EN**.

IP 2X terminal blocks

- The terminal-block support bar is particularly well suited to the thermoplastic boxes.
- Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm.
- The screwing terminal blocks are easily clipped onto this bar.
- Terminal-block connection capacity: see the selection table below.

Description	Height or width	Min. depth	Minor pack.	Ref.
Terminal-block support bar	192	87	1	**IMT34000**
	241	87	1	**IMT34001**
	291	128	1	**IMT34002**

Description	Terminal-block length Lb (mm)	Black (live)	Blue (neutral)	Green (earth)
4-hole terminal blocks 2 x 10^2 + 2 x 16^2	30	**IMT34003**	**IMT34005**	**IMT34007**
4-hole terminal blocks 3 x 16^2 + 1 x 25^2	36	**IMT34004**	**IMT34006**	**IMT34008**
Earth terminal block (*) 2 x 25^2		**IMT34009**		
Minor pack		10	5	5

(*) The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.

Selection table

- Number of terminal blocks per support.

	Terminal blocks 2 x 10^2 + 2 x 16^2 4 holes	Terminal blocks 3 x 16^2 + 1 x 25^2 4 holes	Support length Ls (mm)
Support for 192 mm	4	4	140
Support for 241 mm	6	5	185
Support for 291 mm	8	6	235

DIN rail terminal blocks

- The AB1 terminal blocks have 3 types of connections: screw, spring or insulation displacement and they can be mounted on a DIN rail.
- Connection capacity from 2,5 mm² up to 150 mm².
- Available in grey, blue, orange, red, green or white color.

Technology	Description	Minor pack.	H (mm)	W (mm)	D (mm)	Reference
Screw	Passthrough, 2.5 mm², grey	100	48.5	5	45	**AB1VV235U**
	Passthrough, 2.5 mm², blue	100	48.5	5	45	**AB1VV235UBL**
	Protective earth, 2.5 mm²	100	56	5	48.6	**AB1TP235U**
	Passthrough, 4 mm², grey	100	48.5	6	45	**AB1VV435U**
	Passthrough, 4 mm², blue	100	48.5	6	45	**AB1VV435UBL**
	Protective earth, 4 mm²	100	56	6	51	**AB1TP435U**
Spring	Passthrough, 2.5 mm², grey	100	38.1	5	47.1	**AB1RRN235U2GR**
	Passthrough, 2.5 mm², blue	100	38.1	5	47.1	**AB1RRN235U2BL**
	Protective earth, 2.5 mm²	100	38.1	5	47.1	**AB1RRNTP235U2**
	Passthrough, 4 mm², grey	100	38.1	6	51	**AB1RRN435U2GR**
	Passthrough, 4 mm², blue	100	38.1	6	51	**AB1RRN435U2BL**
	Protective earth, 4 mm²	100	38.1	6	51	**AB1RRNTP435U2**

Thermal management
Natural ventilation

Sealed anti-condensation valve

- Controls the pressure to avoid condensation following an internal temperature increase.
- Maintains IP 68.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent.
- Usage temperature: –40...+105 °C.

Drill Ø	Permeability (1)	Pressure difference (2)	Minor pack.	Reference
M12	16 litres/h	ΔP < 1 bar	10	**NSYCAG12LPH1**
M12	120 litres/h	ΔP < 0.1 bar	10	**NSYCAG12LPH2**

(1) Air flow under ΔP = 0.7 bar.
(2) Condition for IP 68.

Applications

- Protection of equipment for luminaires, industrial control, transportation, pumps, etc.

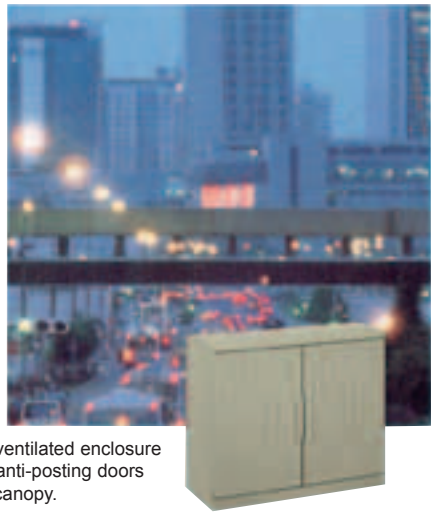
Polyester enclosures
Installation examples

PB501273

Outdoor installation, with exposure to atmospheric conditions: mist, solar radiation, extreme temperatures, etc.

Schneider Electric enclosures made from insulating materials are designed to protect your equipment in harsh environments or in contact with the public:

- Infrastructures: protection against bad weather (solar radiation, rain, etc.), impacts, saline atmospheres, etc.
  - Transport: resistance to UV, salt mist, tightness and impact resistance, etc.
  - Water: resistance to corrosion, resistance to impact and UV, resistance to chemical substances, etc.
  - Outdoor telecom and networks: resistance to UV, resistance to corrosion, protection of 19-inch accessories, etc.
  - Power: resistance to impact, to salt mist, etc.
  - Public lighting: anti-vandalism, anti-posting, UV resistance, etc.
- Industries in aggressive environments: resistance to corrosion, to chemical substances and protection against electrical hazards.



PB501274

Self-ventilated enclosure with anti-posting doors and canopy.

PB501275

Indoor or outdoor installation on industrial zones in aggressive environments.

Insulating modular boxes

Modular

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.

Protection

- IP 65.
- Gasket between body and cover.

Choice

- 14 sizes.
- 9 combinations of length x width.
- 2 cover heights.
- Transparent cover.
- Opaque cover made from polycarbonate or polyester.

Industry or infrastructure

- Energy, automatism.
- Accessories for modular distribution.

Safety

- Full insulation for class II equipment.
- Locking with 4, 6 or 8 points.

Easy

Bosses with inserts, at the rear of the body, for fixing plates or various supports.

Customisation

- Various machining operations of the rear and the cover.
- Option of colour in the mass.

IP 65 insulating modular boxes
Introduction

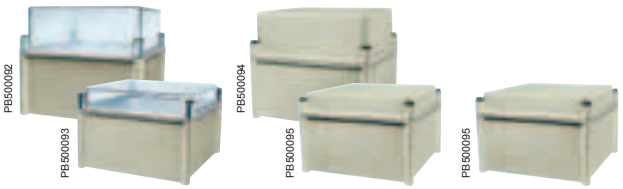
PB500213

- The product references show the two lateral dimensions in cm.
- 14 sizes of insulating boxes; the sides are multiples of 9 cm.
- Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies.
- Rear made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes.
- 3 types of cover available according to the sizes:
  – Standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes.
  – Opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes.
  – Polyester reinforced with fiberglass cover (index P) with PUR gasket, 45 mm high.
- Complete box includes rear, cover, locking screws and sealing device.
- The rears (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories.
- The PLS enclosures with transparent cover are also offered in batches; the reference refers to the complete batch.

Technical characteristics

- Degree of protection: IP 65.
- Resistance to external mechanical impacts: IK 09.
- RAL 7032 grey colour (opaque rears and cover).
- Excellent resistance to corrosion; can withstand most chemical agents.
- Full insulation to create class II assemblies.
- Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system.
- External wall mounting by 4 lugs, to be ordered separately.
- Service temperature: – 30 to + 90 °C.
- Bosses with M6 inserts for fixing the mounting plate.
- Halogen-free and compliant with the RoHS directive.
- Certification according to standard IEC 62208, guaranteeing IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m^2.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- UL certification and NEMA classification 4X and 13.

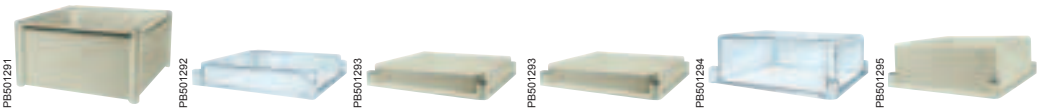
Selection guide


PB500092
PB500093
PB500094
PB500095
PB500095

Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	**NSYPLS1827**	**NSYPLSC1827**	**NSYPLSP1827**	**NSYPLS1827L**	56
270	270	180	**NSYPLS2727**	**NSYPLSC2727**	**NSYPLSP2727**	**NSYPLS2727L**	56
270	270	230	**NSYPLS2727A**	**NSYPLSC2727A**		**NSYPLS2727AL**	56
270	360	180	**NSYPLS2736**	**NSYPLSC2736**	**NSYPLSP2736**	**NSYPLS2736L**	56
270	360	230	**NSYPLS2736A**	**NSYPLSC2736A**	-	**NSYPLS2736AL**	56
270	540	180	**NSYPLS2754**	**NSYPLSC2754**	**NSYPLSP2754**	**NSYPLS2754L**	28
270	540	230	**NSYPLS2754A**	**NSYPLSC2754A**	-	**NSYPLS2754AL**	28
360	360	180	**NSYPLS3636**	**NSYPLSC3636**	**NSYPLSP3636**	**NSYPLS3636L**	28
360	540	180	**NSYPLS3654**	**NSYPLSC3654**	**NSYPLSP3654**	**NSYPLS3654L**	28
360	540	230	**NSYPLS3654A**	**NSYPLSC3654A**	-	**NSYPLS3654AL**	28
360	720	230	**NSYPLS3672A**	**NSYPLSC3672A**	-	**NSYPLS3672AL**	27
540	540	180	**NSYPLS5454**	**NSYPLSC5454**	**NSYPLSP5454**	**NSYPLS5454L**	14
540	540	230	**NSYPLS5454A**	**NSYPLSC5454A**	-	**NSYPLS5454AL**	14
540	720	230	**NSYPLS5472A**	**NSYPLSC5472A**	-	**NSYPLS5472AL**	14

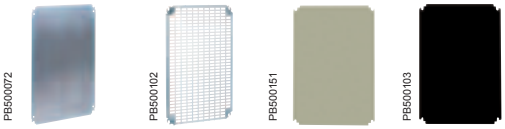
IP 65 insulating modular boxes
Introduction

Selection guide for rears and covers (without screws)



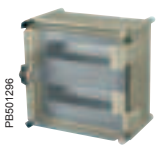
Dimensions (mm)		Rear 135 mm	Low covers			High covers	
Height	Width		Transparent 45 mm	Opaque 45 mm	Polyester 45 mm	Transparent 95 mm	Opaque 95 mm
180	270	**NSYFPLS1827**	**NSYTPLS1827**	**NSYTPLSC1827**	**NSYTPLSP1827**	-	-
270	270	**NSYFPLS2727**	**NSYTPLS2727**	**NSYTPLSC2727**	**NSYTPLSP2727**	-	-
270	270	**NSYFPLS2727**	-	-	-	**NSYTPLS2727A**	**NSYTPLSC2727A**
270	360	**NSYFPLS2736**	**NSYTPLS2736**	**NSYTPLSC2736**	**NSYTPLSP2736**	-	-
270	360	**NSYFPLS2736**	-	-	-	**NSYTPLS2736A**	**NSYTPLSC2736A**
270	540	**NSYFPLS2754**	**NSYTPLS2754**	**NSYTPLSC2754**	**NSYTPLSP2754**	-	-
270	540	**NSYFPLS2754**	-	-	-	**NSYTPLS2754A**	**NSYTPLSC2754A**
360	360	**NSYFPLS3636**	**NSYTPLS3636**	**NSYTPLSC3636**	**NSYTPLSP3636**	-	-
360	540	**NSYFPLS3654**	**NSYTPLS3654**	**NSYTPLSC3654**	**NSYTPLSP3654**	-	-
360	540	**NSYFPLS3654**	-	-	-	**NSYTPLS3654A**	**NSYTPLSC3654A**
360	720	**NSYFPLS3672**	-	-	-	**NSYTPLS3672A**	**NSYTPLSC3672A**
540	540	**NSYFPLS5454**	**NSYTPLS5454**	**NSYTPLSC5454**	**NSYTPLSP5454**	-	-
540	540	**NSYFPLS5454**	-	-	-	**NSYTPLS5454A**	**NSYTPLSC5454A**
540	720	**NSYFPLS5472**	-	-	-	**NSYTPLS5472A**	**NSYTPLSC5472A**

Selection guides for mounting plates



For installing in the boxes (mm)		Metallic mounting plates		Insulating mounting plates	
Height	Width	Plain	Telequick	Polyester	Bakelite
180	270	**NSYPMM1827**	**NSYPMR1827**	**NSYPMA1827**	**NSYPMB1827**
270	270	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727**	**NSYPMB2727**
270	360	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736**	**NSYPMB2736**
270	540	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754**	**NSYPMB2754**
360	360	**NSYPMM3636**	-	**NSYPMA3636**	**NSYPMB3636**
360	540	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654**	**NSYPMB3654**
360	720	**NSYPMM3672**	**NSYPMR3672**	**NSYPMA3672**	**NSYPMB3672**
540	540	**NSYPMM5454**	**NSYPMR5454**	**NSYPMA5454**	**NSYPMB5454**
540	720	**NSYPMM5472**	**NSYPMR5472**	**NSYPMA5472**	**NSYPMB5472**

Selection guides for modular distribution chassis



For installing in the boxes (mm)		Modular distribution chassis	No. of rows	No. of 18 mm modules
Height	Width	Page 252		
180	270	**NSYDLS12**	1	12
270	270	**NSYDLS24**	2	24
360	270	**NSYDLS242**	2	24
		NSYDLS36	3	36
540	270	**NSYDLS48**	4	48

Selection guides for modular distribution application offer: box and chassis. See pages **252** and **253**.

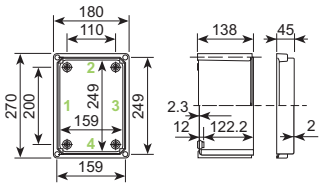
External dimensions (mm)			Number of 18 mm modules	Number of rows	Approximate weight (kg)	References
Height (A)	Width (B)	Depth (C)				
180	270	180	12	1	1.7	**NSYPLS1827DLS12**
270	270	180	24	2	2.5	**NSYPLS2727DLS24**
360	270	180	24	2	2.7	**NSYPLS3627DLS24**
360	270	180	36	3	2.8	**NSYPLS3627DLS36**
540	270	180	48	4	3.8	**NSYPLS5427DLS48**

IP 65 insulating modular boxes
Dimensions

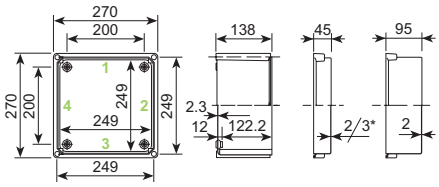
Dimensions (mm)

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

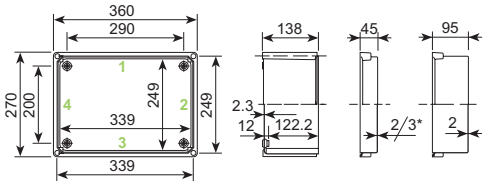
NSYPLS•••1827



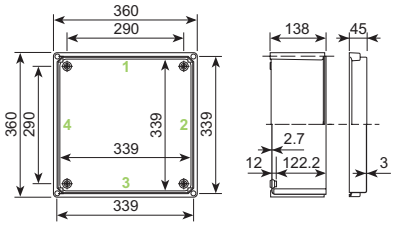
NSYPLS•••2727•



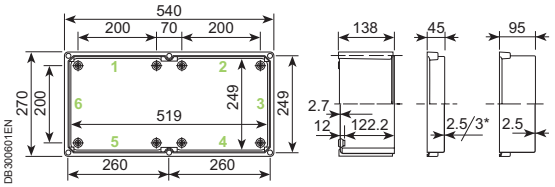
NSYPLS•••2736•



NSYPLS•••3636



NSYPLS•••2754•



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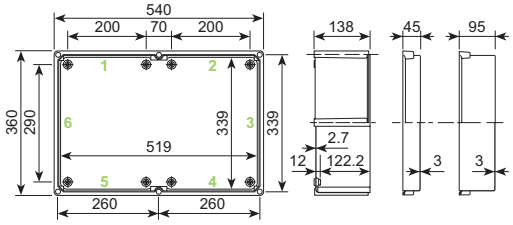
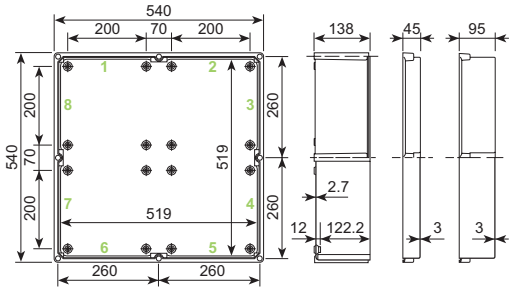
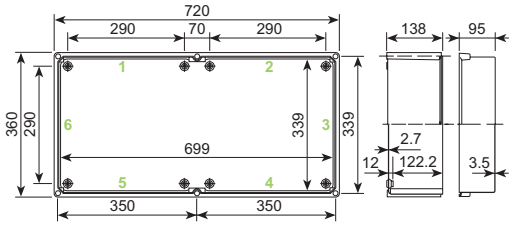
NSYPLS•••3654•



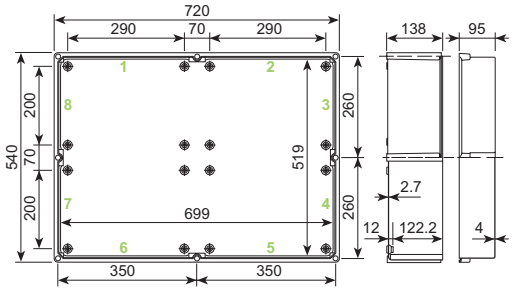
NSYPLS•••5454•



NSYPLS•••3672•

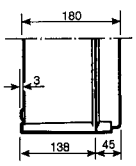


NSYPLS•••5472•



* Thickness of 3 mm for the polyester cover.

A



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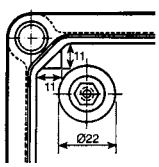

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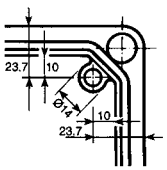
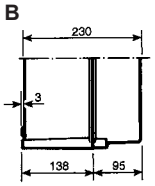
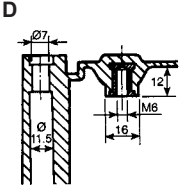


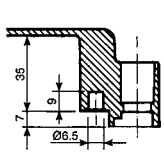
B



D



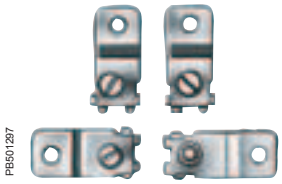
F



DB300602EN

A Bottom and bottom cover.
B Bottom and top cover.
C D Internal view of the corners, details of the bosses with M6 inserts.
E F Internal view of the corners of the poyester covers with bosses for inserts ref. **NSYTEX5** for M5 screws.

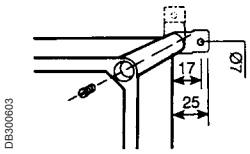
IP 65 insulating modular boxes
Accessories


PB501297

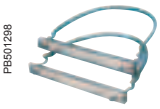
Wall-fixing lugs

- Set of 4 lugs and fixings.
- Material: passivated zinc-coated or stainless steel.

Name	References
Steel mounting lugs	**NSYPF27N**
Stainless-steel mounting lugs	**NSYPF27X**



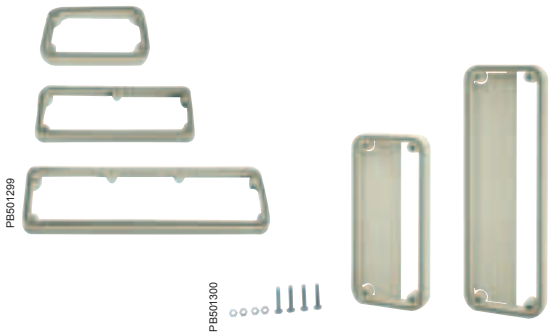
DB300603


PB501298

Post-fixing device

- Contains all the elements required for mounting on a post.

For installation on a surface with dimensions (mm)	References
270	**NSYFSP27270**
360	**NSYFSP27360**
540	**NSYFSP27540**

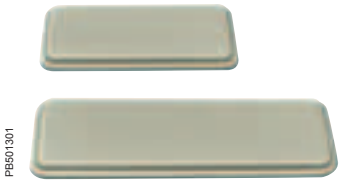

PB501299
PB501300

Coupling frames

- Coupling frame for an opening of 110 mm (for 180 mm surfaces).
- Coupling frame for an opening of 200 mm (for 270 mm surfaces).
- Coupling frame for an opening of 290 mm (for 360 mm surfaces).
- A sealing gasket is built into the frame with full opening to maintain the protection rating of IP 65.
- Frame with partial opening: without gasket and IP 44.

Opening (mm)	References	
	Full-opening frame	Partial-opening frame
110	**NSYUM27180**	-
200	**NSYUM27270**	**NSYUCC270** (1)
290	**NSYUM27360**	**NSYUCC360** (1)

(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

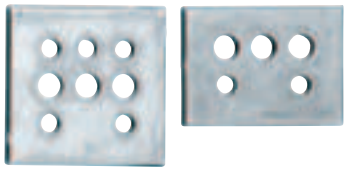

PB501301

Side plates

- 200 mm cable-gland plate or locking plate for the 270 mm surfaces.
- 290 mm cable-gland plate or locking plate for the 360 mm surfaces.
- IP 65 maintained by a sealing gasket.

Side plates (mm)	References
200	**NSYTL27270**
290	**NSYTL27360**

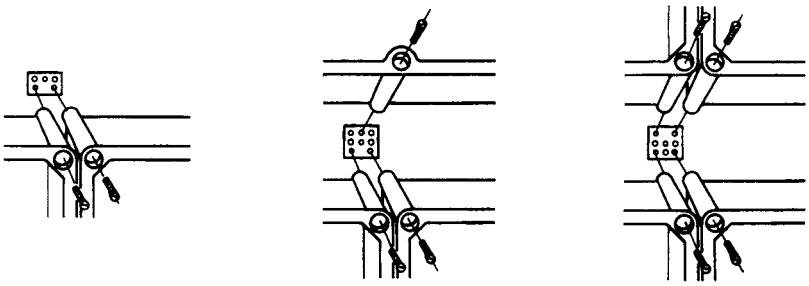
IP 65 insulating modular boxes
Accessories


PB501302

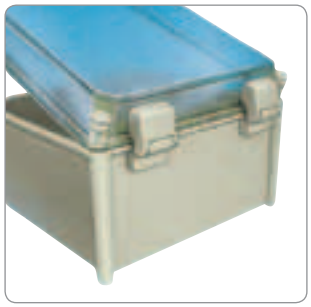
Box coupling unit piece

- For coupling 2, 3 or 4 boxes, with optional wall mounting.
- To be ordered in multiples of 25.

For coupling	References
2 boxes	**NSYPS2C27**
3 or 4 boxes	**NSYPS4C27**


DB300604

M6 x 8 screw with cylindrical head.


PB501303

PB501304

Hinges

- Set of 2 external hinges made from plastic or internal hinges made from brass.
- To open the door to 180°.

Name	References
External plastic hinges	**NSYBE27**
Internal brass hinges	**NSYBL27**

PB501314

NSYAE25

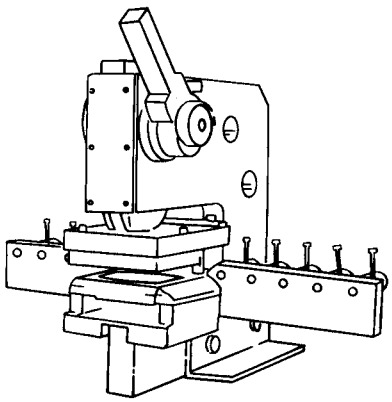
PB501315

NSYAS25

Insulators for busbar

- Ref. **NSYAE25** for 4 bars of 15 or 20 mm. Utilisation on the 270 mm side.
- Ref. **NSYAS25*** for 1 bar of 15, 20 or 30 mm.

* References by unit. Order by multiples of 5 units (5, 10, 15, etc.).

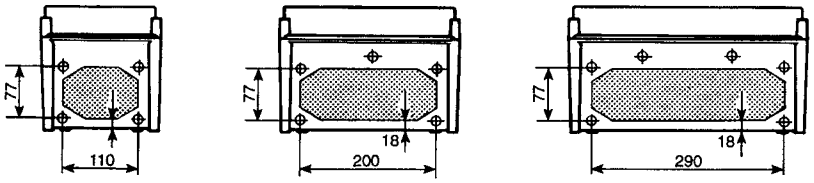

DB300605

Side cut-out press, ref. **NSYPUC27**.

Specific

Drill holes

- The machining operations on the dimensions of the lateral plates or frames can be specifically produced in our factory.
- The surfaces can be identified by the numbers provided on page **247**.



DB300606

IP 65 insulating modular boxes
Accessories

PB501305

With slotted head

PB501306

With wings

PB501307

With plumbable triangular head

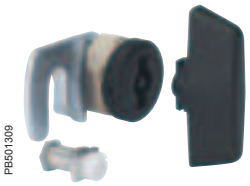
Closing for PLS boxes

- Set of 4, 6 or 8 screws.
- Three types of screws are available:
  – With slotted head.
  – With wings.
  – With plumbable triangular head.
- The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories.

Name	Tool	References
Set of 4 slotted screws (1)	**Flat-blade screwdriver**	**NSYTCD274**
Set of 6 slotted screws (1)	**Flat-blade screwdriver**	**NSYTCD276**
Set of 8 slotted screws (1)	**Flat-blade screwdriver**	**NSYTCD278**
Set of 4 wing screws (2)	**Manual**	**NSYTCM274**
Set of 6 wing screws (2)	**Manual**	**NSYTCM276**
Set of 8 wing screws (2)	**Manual**	**NSYTCM278**
Set of 4 triangular screws	NSYLT27	**NSYTCT274**
Set of 6 triangular screws		**NSYTCT276**
Set of 8 triangular screws		**NSYTCT278**

(1) Included in the standard references of boxes **NSYPLS•••**.
(2) Included in the standard references of modular distribution boxes **NSYPLS•••DLS•••**.

PB501308


PB501309

Closing locks

- Option of installing a side lock, on the opposite side to where the hinges are installed.

Name	Tool	References
Double-bar side lock and handle	NSYDBP	**NSYCL27M**
Side lock with key 405		**NSYCL27L405**
Side lock with key 1242E		**NSYCL27L1242E**

PB501310

PB501310

PB501311

Sealing and opening

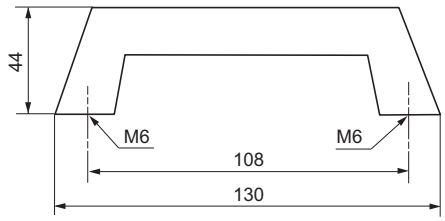
Name	References
Plastic-coated sealing triangle*	**NSYPPS27**
Triangular key for PLS	**NSYLT27**

* References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

PB501312

Plastic carrying handle

Name	Reference
Carrying handle	**NSYATM27**



DB300607

See also the accessories

Cable management page **421**

Distribution blocks page **406**

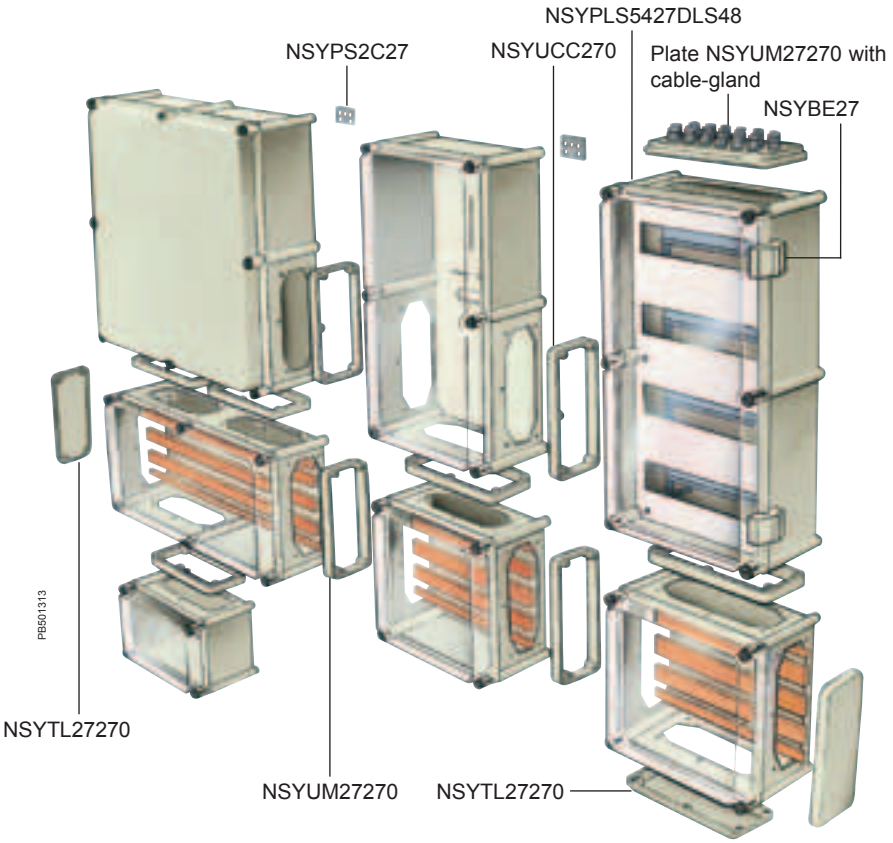
Ventilation louvres page **685**

Modular access window page **473**

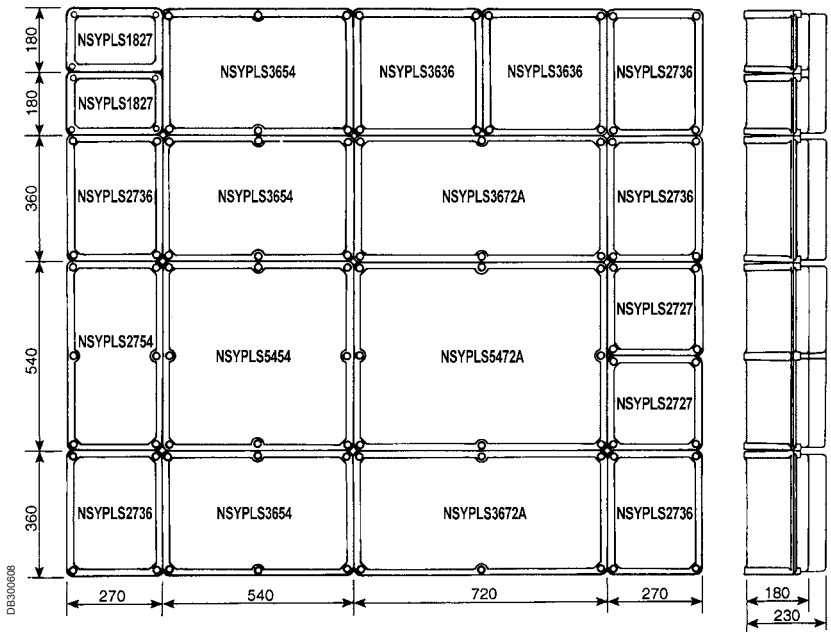
Door window page **473**

Insulating modular boxes
Accessories

Examples of assembly



All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM•••** or **NSYUCC•••**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.



Insulating modular boxes
Modular distribution application

NSYPLS5427DLS48

Insulating modular boxes with modular distribution chassis

PLS boxes, polyester rear and PC transparent cover with hinges and wing screws for manual opening.
Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/earth connection strip.

- Opening for cable entry, delivered with lock plate, ref. **NSYTL27270**.
- Double-insulating installation.
- Plastic external hinges, allowing opening to 180°.
- Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer.
- The modular chassis can be ordered separately, see references page **246**.

Specific

- The boxes can be equipped with a double-bar lock and handle ref. **NSYCL27M**, or a lock with key ref. **NSYCL27L405**, by specific demand.

See also the accessories

Modular distribution page **385**

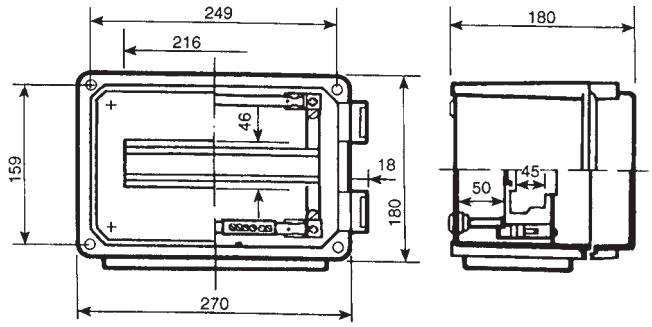
Insulating modular boxes
Modular distribution application

Selection guide

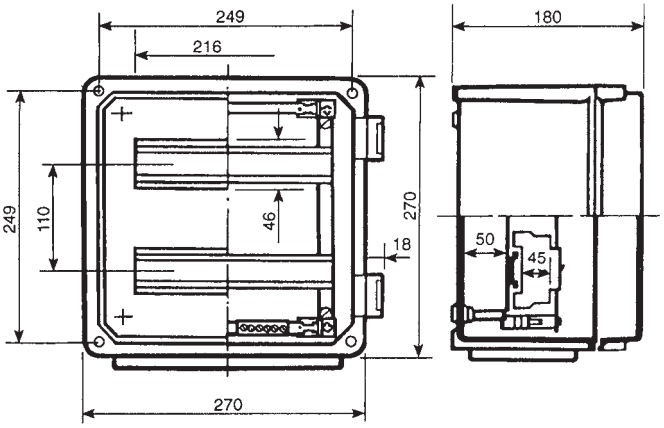
External dimensions (mm)			Number of 18 mm modules	Number of rows	Approximate weight (kg)	References
Height (A)	Width (B)	Depth (C)				
180	270	180	12	1	1.7	**NSYPLS1827DLS12**
270	270	180	24	2	2.5	**NSYPLS2727DLS24**
360	270	180	24	2	2.7	**NSYPLS3627DLS24**
360	270	180	36	3	2.8	**NSYPLS3627DLS36**
540	270	180	48	4	3.8	**NSYPLS5427DLS48**

Dimensions (mm)

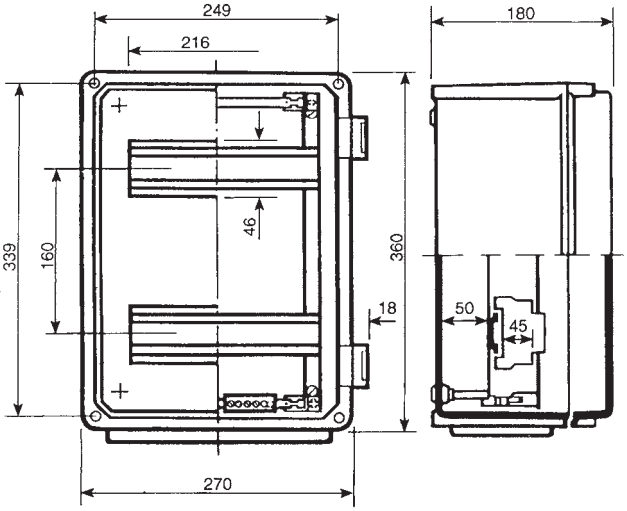
NSYPLS1827DLS12



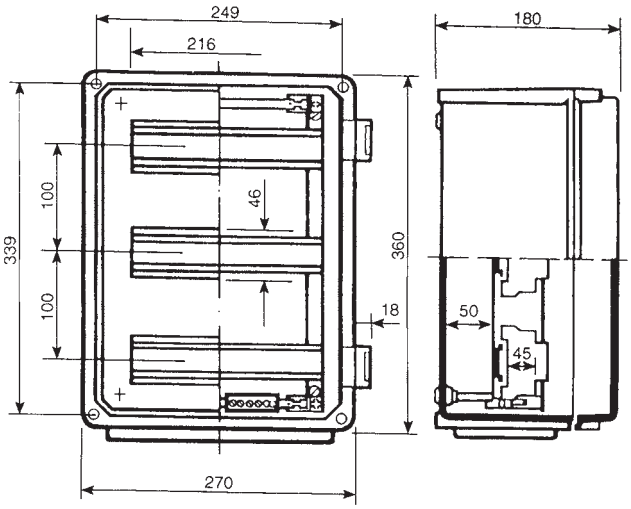
NSYPLS2727DLS24



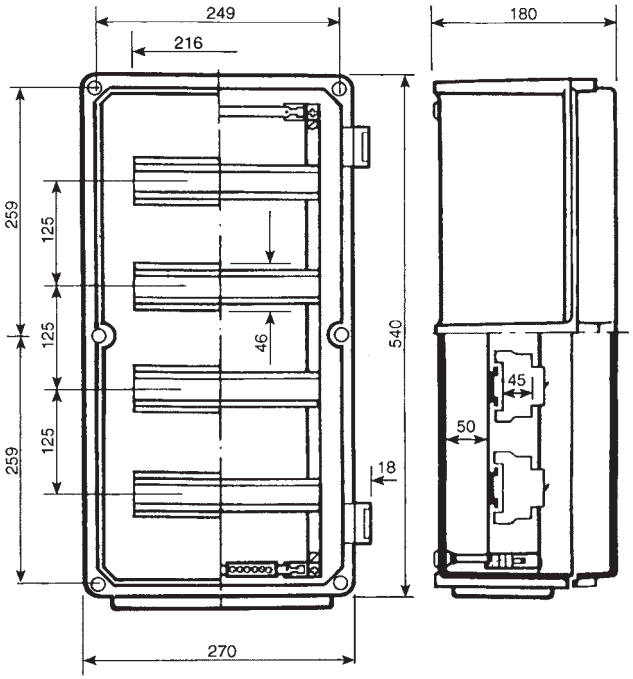
NSYPLS3627DLS24



NSYPLS3627DLS36

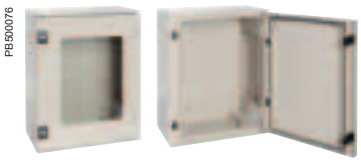


NSYPLS5427DLS48



Insulating wall-mounting enclosures

Insulating wall-mounting enclosures
Contents



Thalassa PLM Wall-mounting in polyester **256**

Introduction 258
Dimensions 261
Selection guide 262
Accessories 264

Polyester wall-mounting enclosures

Service life

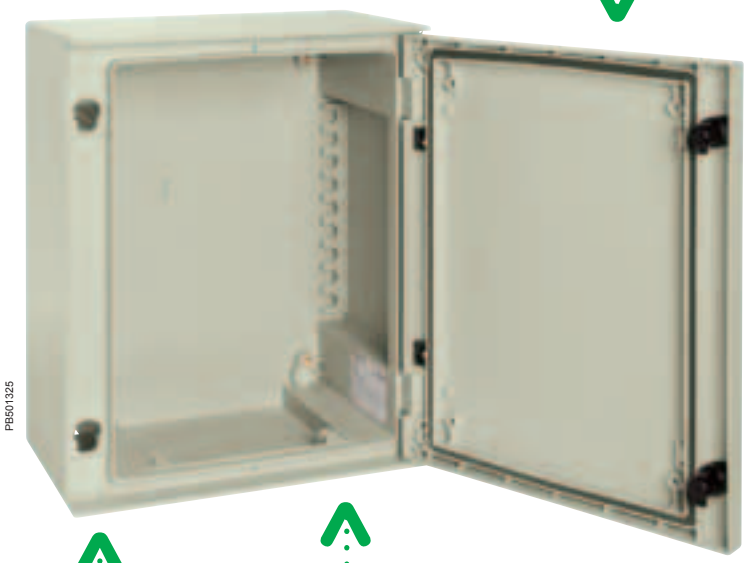
High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.

Protection

- IP 66.
- Polyurethane gasket.
- Built-in canopy.
- Lock outside sealed area.

Choice

- 1 ABS/PC dimension and 7 polyester dimensions.
- Smooth or glazed door.



Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.

Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

Customisation

- Configured: machining and accessories.
- Specific: non-standard colour and accessories.

Safety

- Full insulation (to produce class II units).
- Mechanical strength.
- No risk to the public.

Applications

- Industry or infrastructures in harsh environments.
- Indoor or outdoor installation.
- Accessories for modular distribution.

Polyester wall-mounting enclosures

General characteristics of the Thalassa PLM wall-mounting enclosures:

- Indoor or outdoor use.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 1 size for the ABS/PC wall-mounting enclosure (310 x 215 x 160 mm).
- 7 sizes of polyester wall-mounting enclosures.
- Monobloc body including the canopies (gasket protection), except for wall-mounting enclosure ref. **NSYPLM3025**.
- Doors with polyurethane gasket.
- 2 types of doors.
  – Smooth.
  – Transparent (for the ABS/PC enclosure) or glazed (for the polyester enclosures).
- Reversible door opening direction by turning the enclosure over.
- Degree of protection IP 66 according to standard IEC 60529.
- Impact resistance IK 10 for the plain doors and surfaces and IK 08 for the glazed doors of the polyester versions, according to standard IEC 62262.
- Many accessories in common with the range of steel wall-mounting enclosures, Spacial S3D or Spacial CRN.

Properties of the material of the polyester versions

The wall-mounting enclosures are made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 colour.
This material:

- Is insulating: >15 kV per mm.
- Withstands cold and heat in the range of –50 °C...+150 °C.
- Does not soften under intense heat (ball resistance at +150 °C).
- Is self-extinguishing (does not propagate fire): HB40 classification and self-extinguishing in several seconds during the glow-wire test at 960 °C –30 sec.
- Does not contain halogens.
- Releases little smoke and no toxic smoke in the event of combustion.
- Is light.
- Can be machined easily.
- Is corrosion-resistant: no rusting, and can withstand many chemical agents.
- Can resist bad weather.

Characteristics of the production process of the polyester version

The components of the enclosure (body and doors) are moulded by hot compression: the parts have an excellent finish on both sides and can include bosses for accommodating inserts and accessories for mounting or cable management.

Certificate of conformity with enclosure standard IEC 62208 for:

IP, IK, resistance to heat and fire, insulation 5000 V, resistance to bad weather and corrosion and resistance to internal loads (150 kg/m^2) and loads on the door (30 kg/m^2).

UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures

Total insulation to produce class II units according to IEC 61439-1

Complies with RoHS and REACH Directives

ABS/PC wall-mounting enclosures 310 x 215 mm IP 66
Introduction

PB500144

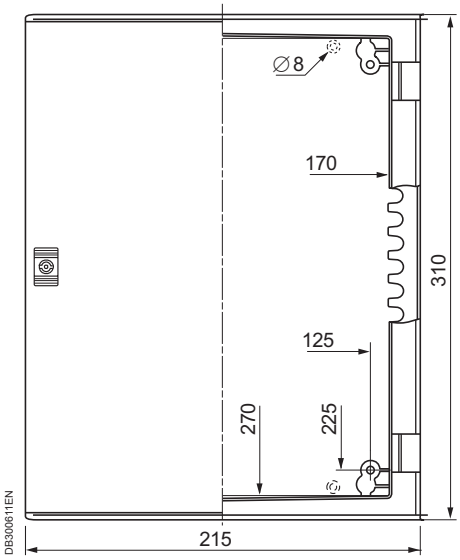
Technical characteristics

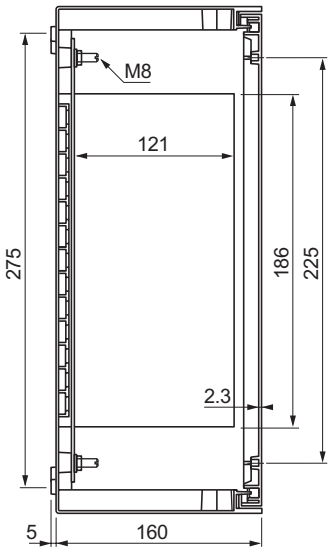
- Monobloc wall-mounting enclosure made from ABS/PC, RAL 7032 colour.
- Version with transparent polycarbonate door.
- Closes with a 3-mm double-bar lock.
- Door opening: 180°.
- Degree of protection: –35 °C...+90 °C.
- Protection rating IP 66 according to IEC 60529.
- Resistance to external mechanical impacts of IK 10 (20 joules) according to IEC 62262.
- Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm.
- Fixing of installation plates on the studs at the rear of the enclosure.
- Back of the door with a 25-mm grid pattern.

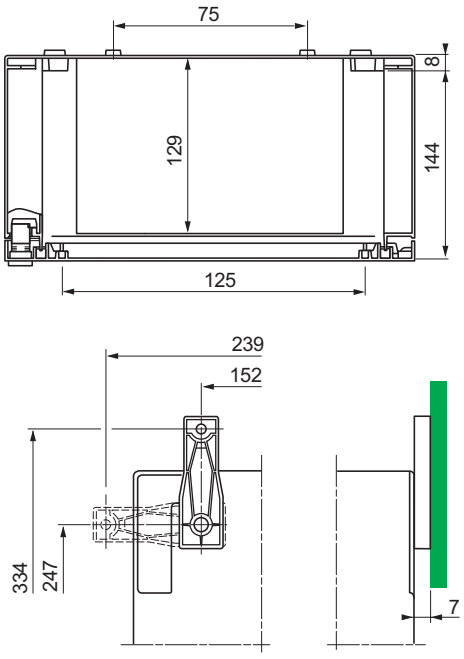
External dimensions (mm)			References of wall-mounting enclosures with door	
Height	Width	Depth	Plain*	Transparent
310	215	160	**NSYPLM32**	**NSYPLM32T**

*These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references on page **262**.

Dimensions







Polyester wall-mounting enclosures 308 x 255 mm IP 66
Introduction

PB500145

Technical characteristics

- Monobloc wall-mounting enclosure made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Version with transparent tempered-glass door.
- Degree of protection IP 66 according to IEC 60529.
- Resistance to external mechanical impacts:

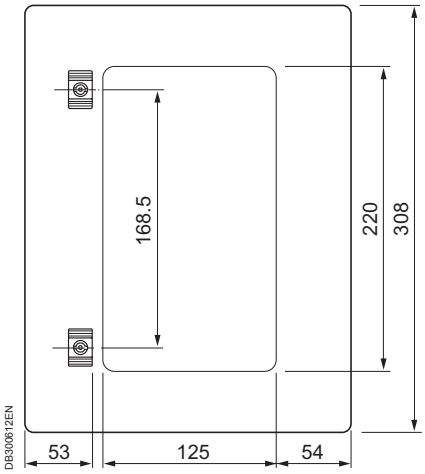
– Plain door enclosures IK 10 (20 joules).
– Glazed door enclosures IK 08 (5 joules) according to IEC 62262.

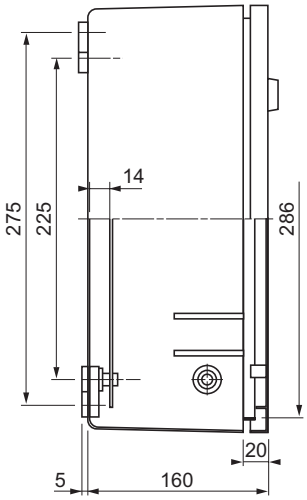
- Closes with two 3-mm double-bar locks.
- Door opening angle: 120°.
- Fixing of rear accessories on 4 M8 x 18 studs.
- Grid pattern with a pitch of 50 mm on the back of the door.

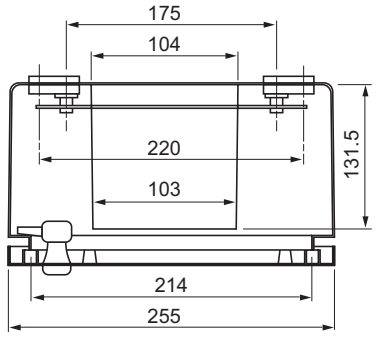
External dimensions (mm)			References of wall-mounting enclosures with door	
Height	Width	Depth	Plain*	Transparent
308	255	160	**NSYPLM3025**	**NSYPLM3025T**

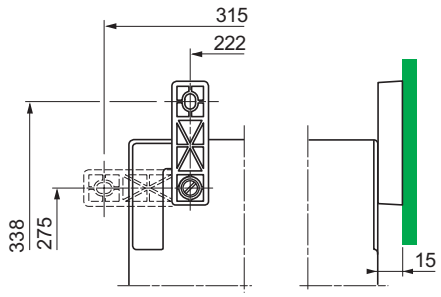
*These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references on page **262**.

Dimensions









Polyester wall-mounting enclosures IP 66
Introduction

PB501325

Technical characteristics

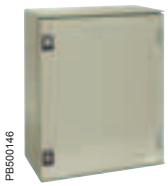
- Monobloc wall-mounting enclosure made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Version with transparent tempered-glass door.
- Degree of protection IP 66 according to IEC 60529.
- Resistance to external mechanical impacts:
– Plain door enclosures IK 10 (20 joules).
– Glazed door enclosures IK 08 (5 joules) according to IEC 62262.
- Locking device outside the sealed area, guaranteeing the tightness of IP 66 over time.
- Locking system:
– Enclosure height ≤ 847 mm: 2 locks with double-bar insert or 1 handle with key lock and 3-point closure.
– Enclosure height 1056 mm: 1 lock with double-bar insert and 4-point closure.
- Door opening angle: 180°.
- Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm.
- Fixing of rear accessories on 4 M8 studs, included in the standard supply.
- Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm.
- Grid pattern with a pitch of 25 mm on the back of the door.

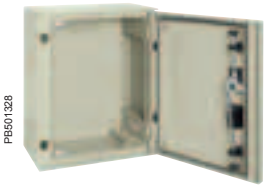
PB501326

Built-in canopy protecting the door and the sealing gasket.
Two double-bar 3 mm locks outside the sealed zone.

PB501327

Polyamide hinge pin, easily removable and captive.


PB500146


PB501328

PB500147

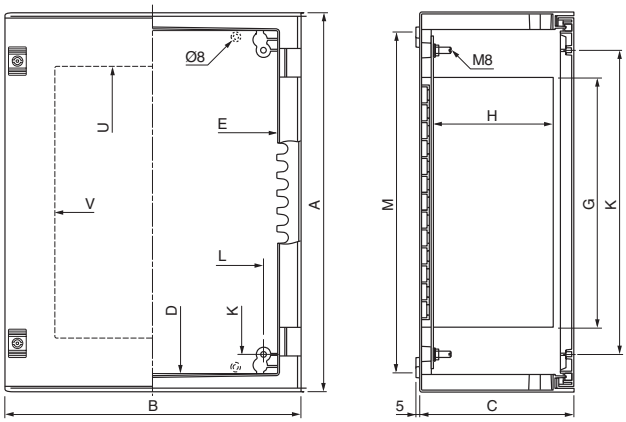
PB501329

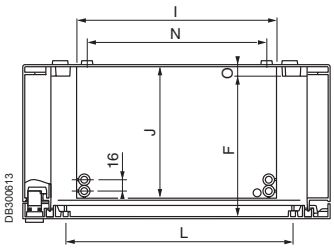
External dimensions (mm)			References of wall-mounting enclosures with door			
Height (A)	**Width** (B)	**Depth** (C)	**Plain** (3)	**Plain** (1)	**Transparent**	**Transparent** (1)
430	330	200	**NSYPLM43**	**NSYPLM43V**	**NSYPLM43T**	**NSYPLM43TV**
530	430	200	**NSYPLM54**	**NSYPLM54V**	**NSYPLM54T**	**NSYPLM54TV**
647	436	250	**NSYPLM64**	**NSYPLM64V**	**NSYPLM64T**	**NSYPLM64TV**
747	536	300	**NSYPLM75**	**NSYPLM75V**	**NSYPLM75T**	**NSYPLM75TV**
847	636	300	**NSYPLM86**	**NSYPLM86V**	**NSYPLM86T**	**NSYPLM86TV**
1056	852	350	**NSYPLM108** (2)	-	**NSYPLM108T** (2)	-

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.
(2) Wall-mounting enclosure with standard 5 mm double-bar lock and lock with 4-point closure.
(3) These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references table on page **262**.

Polyester wall-mounting enclosures IP 66
Dimensions

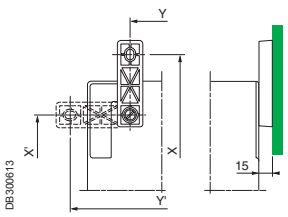
A: Height
B: Width
C: Depth





Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (m)			References
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	**NSYPLM43**
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	**NSYPLM54**
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	**NSYPLM64**
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	**NSYPLM75**
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	**NSYPLM86**
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	**NSYPLM108**

Glazed door opening (mm)		References	Glazed door opening (mm)		References
U	V		U	V	
273	194	**NSYPLM43T**	273	151	**NSYPLM43TV**
373	294	**NSYPLM54T**	373	251	**NSYPLM54TV**
463	294	**NSYPLM64T**	463	252	**NSYPLM64TV**
563	394	**NSYPLM75T**	563	352	**NSYPLM75TV**
663	494	**NSYPLM86T**	663	452	**NSYPLM86TV**
854	661	**NSYPLM108T**			



External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	**NSYPLM43**
590	325	455	460	**NSYPLM54**
690	330	555	465	**NSYPLM64**
790	430	655	565	**NSYPLM75**
890	530	755	665	**NSYPLM86**
1090	750	955	885	**NSYPLM108**

Polyester wall-mounting enclosure
Selection guide

Summary guide of the references

PB500144

PB500146

PB500147

PB501264

PB501265

External dimensions (mm)			ABS/PC wall-mounting enclosures IP 66		Polyester wall-mounting enclosures IP 66				Wall-mounting enclosures with plain door and mounting plate (1)	
H	W	D	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure	Plain	Bakelite
			Page 258		Page 259 and 260		Page 260			
310	215	160	**NSYPLM32**	**NSYPLM32T**	-	-	-	-	**NSYPLM32P**	**NSYPLM32B**
308	255	160	-	-	**NSYPLM3025**	**NSYPLM3025T**	-	-	**NSYPLM3025P**	**NSYPLM3025B**
430	330	200	-	-	**NSYPLM43**	**NSYPLM43T**	**NSYPLM43V**	**NSYPLM43TV**	**NSYPLM43P**	**NSYPLM43B**
530	430	200	-	-	**NSYPLM54**	**NSYPLM54T**	**NSYPLM54V**	**NSYPLM54TV**	**NSYPLM54P**	**NSYPLM54B**
647	436	250	-	-	**NSYPLM64**	**NSYPLM64T**	**NSYPLM64V**	**NSYPLM64TV**	**NSYPLM64P**	**NSYPLM64B**
747	536	300	-	-	**NSYPLM75**	**NSYPLM75T**	**NSYPLM75V**	**NSYPLM75TV**	**NSYPLM75P**	**NSYPLM75B**
847	636	300	-	-	**NSYPLM86**	**NSYPLM86T**	**NSYPLM86V**	**NSYPLM86TV**	**NSYPLM86P**	**NSYPLM86B**
1056	852	350	-	-	**NSYPLM108**	**NSYPLM108T**	-	-	-	**NSYPLM108B**

(1) Not mounted.

Summary guide of the characteristics

References	NSYPLM32	NSYPLM3025	NSYPLM43/54/64/75/86	NSYPLM108
Dimensions (mm)	310 x 215 x 160	308 x 255 x 160	430 x 330 x 200 to 847 x 636 x 300	1056 x 852 x 350
Material	ABS/PC	Polyester	Polyester	Polyester
Degree of protection	IP 66	IP 66	IP 66	IP 66
Impact protection (1)	IK 10	IK 10	IK 10	IK 10
Built-in canopy	Yes	No	Yes	Yes
Lock (2)	1	2	2	1 (4-point closure)
Closing with handle (3)	-	-	1 (3-point closure)	-
Lock outside the sealed area	No	No	Yes	Yes
Door opening	180°	120°	180°	180°
Notches every 25 mm (4)	Yes	No	Yes	Yes
Grid pattern on the back of the door	25 mm	50 mm	25 mm	25 mm

(1) IK 08 glazed door of the polyester enclosures.
(2) With double-bar insert.
(3) Handle with insert for key 1242 E.
(4) Notches in the rear of the enclosure for quick installation of DIN rails.

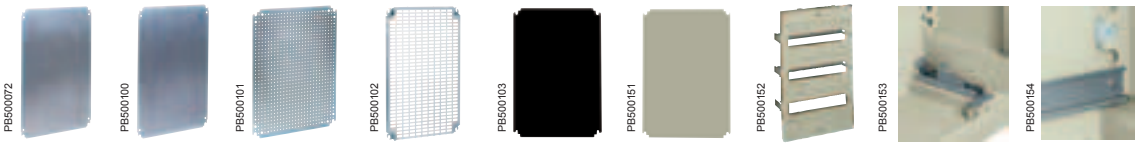
Specific

Configured

Wall-mounting enclosures with polyester mounting plate, machined or not, see customised offer.

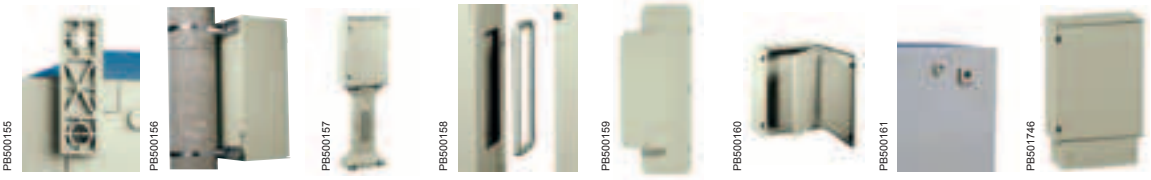
Polyester wall-mounting enclosure
Selection guide

Mounting accessories



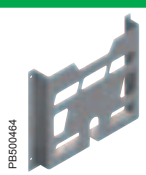
External dimensions of the enclosures (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
H	W	D	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 324		Page 325	Page 326	Page 328		Page 273	Page 271	Page 271
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48P	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66 and NSYDLA88	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84 and NSYDLA112	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234	NSYDPLM350	NSYCS800PLM

Main accessories



External dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
H	W	D								
			Page 267	Page 267	Page 266	Page 266	Page 266	Page 268	Page 267	Page 265
310	215	160	NSYPFPLM32	-	-	-	-	-	NSYCEPLMA	-
308	255	160	NSYPFPLM	-	-	-	-	NSYPA3025PLM	-	-
430	330	200	NSYPFPLM	NSYSFP300	-	-	-	NSYPAP43	NSYCEPLMB	-
530	430	200	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP54	NSYCEPLMB	-
647	436	250	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP64	NSYCEPLMC	-
747	536	300	NSYPFPLM	NSYSFP500	-	NSYBUPLM	NSYTLA4420	NSYPAP75	NSYCEPLMC	NSYZM253
847	636	300	NSYPFPLM	NSYSFP600	-	NSYBUPLM	NSYTLA4420	NSYPAP86	NSYCEPLMC	NSYZM263
1056	852	350	NSYPFPLM	-	-	NSYBU108PLM	NSYTLA6420	NSYPAP108	-	NSYZM283

Document pocket

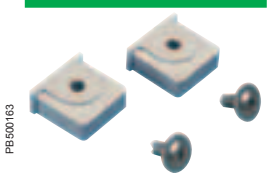


Page 469

Water drain plug

Page 272

Rail-fixing nuts

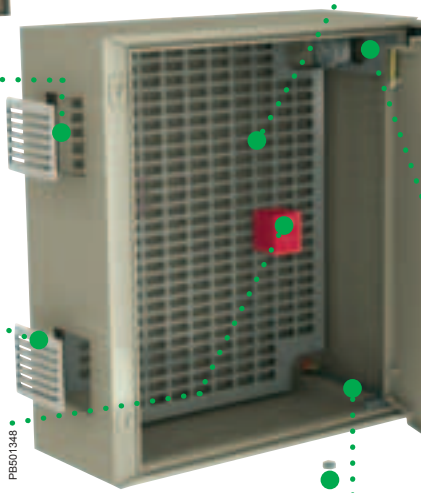


Page 271

Ventilation louvre

Page 272

Accessories Selector



For coupling
Page **266**

For fixing
Page **267**

For mounting
Page **324**

Thermal management
Page **658**

For the door
Page **268**

Plastic ventilation louvres
Page **685**

Document pocket
Page **469**

Thermal control
Page **663**

For closing
Page **269**

Water drain plug
Page **272**

Ventilation louvres
Page **272**

Step slides
Page **271**

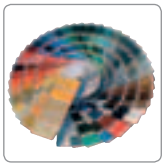
For cable entries (membranes, cable-glands)
Page **420**

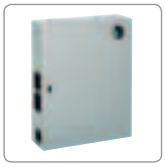
For supporting the cables
Page **440**

For cable management
Page **446**

Customised service: All standard dimensions from our catalogue on request and more...

Configured


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501692
Accessories

Composition accessories
Base accessories

PB501746

PB501747

ZM plinth for PLM enclosure

Designed to support and raise enclosures NSYPLM75, NSYPLM86 and NSYPLM108.
- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.
- Plinth height of 200 mm; stackable to obtain a 400-mm plinth.
- Four floor-attachment points; the symmetry of the parts prevents incorrect assembly.

The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.
In stacked position, the bottom plinth can be partially buried.
It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables.
The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.

For enclosure				Plinth				Cabling area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
747	536	300	**NSYPLM75**	200	456	302	**NSYZM253**	256	252
847	636	300	**NSYPLM86**	200	556	302	**NSYZM263**	356	252
1056	852	350	**NSYPLM108**	200	772	352	**NSYZM283**	572	302

PB501748

Cable supporting cross-rail

The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
The reference of the cross-rail includes all the elements required for assembly.

For plinth	Cross-rail
NSYZM253	**NSYAC280**
NSYZM263	**NSYAC360**
NSYZM283	**NSYAC600**

Kit for IP 54

Makes it possible to obtain IP 54 for the plinth and the plinth-enclosure coupling.
Ref. **NSYAEPZM**.

PB501749

Feet for partially buried installation

Allows the partially buried installation of plinths before completion of the floor.
The plinths are attached by four feet with a standard length of 750 mm.
Possibility of horizontal adjustment of the plinth.
The reference includes a kit made up of four feet and fixings.
Ref. **NSYAEBFZ**.

Composition accessories

PB500158

Coupling accessories

Coupling frame

- Allows the lateral coupling of 2 enclosures.
- Polyester frame, RAL 7032 colour and fixings.
- A built-in sealing gasket guarantees a protection rating of IP 66.

External dimensions (mm)	Entry	For wall-mounting enclosure	References
435 x 185 x 15	398 x 148	**NSYPLM75** and **NSYPLM86**	**NSYBUPLM**
635 x 185 x 15	598 x 148	**NSYPLM108**	**NSYBU108PLM**

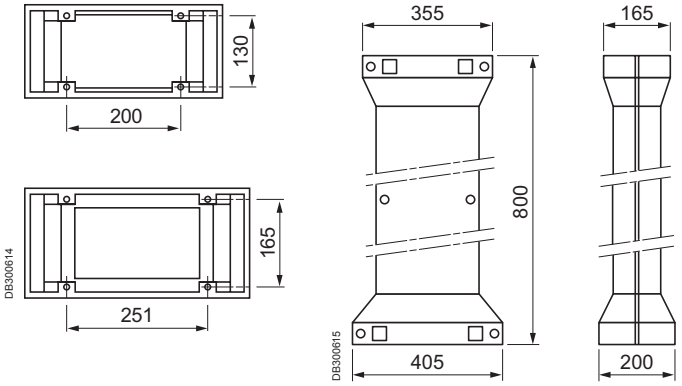
Base accessories

PB501333

Floor-mounting pillar

- To protect cables entering the enclosure in outdoor installations.
- Material: polyester reinforced with fibreglass. RAL 7032 grey colour.
- Delivered with steel frame for secure fixing to the floor.
- Cable entry section: 165 x 100 mm.
- For enclosures ref. **NSYPLM54**, **NSYPLM54T**, **NSYPLM64** and **NSYPLM64T**.

Name	Reference
Floor-mounting pillar	**NSYSFSPLM**



Cable-entry accessories

PB500159

Cable-gland plates

- Material: polyester.
- Dimensions: 435 x 185 mm and 635 x 185 mm.

For wall-mounting enclosures	References
NSYPLM75 and NSYPLM86	**NSYTLA4420**
NSYPLM108	**NSYTLA6420**

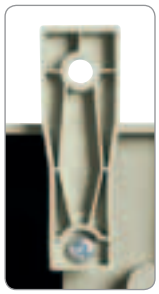
See also the accessories

Cable management
Cable entries
page **421**

Composition accessories
Fixing accessories

PB501330

The enclosures can be mounted directly on the walls. The seals and caps supplied as standard with the enclosure guarantee that it maintains its degrees of protection and insulation.


PB501331
NSYPFPLM32

PB500155
NSYPFPLM

PB501332
NSYPFXPLM

Wall-fixing lugs

- Set of 4 wall-fixing lugs.
- Mounted directly on the enclosure, either in horizontal position or in vertical position.
- Available in 2 versions, polyamide loaded with fibreglass or stainless steel.
- Delivered with fixings.
- Acceptable load of 300 kg in vertical position and 100 kg in horizontal position.

Material	References
Polyamide	**NSYPFPLM** (1)
Stainless steel	**NSYPFXPLM** (1)

(1) Single reference in polyamide, ref. **NSYPFPLM32**, for enclosure ref. **NSYPLM32** and **NSYPLM32T**.

PB500156

Post-fixing device

- For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.
- Material: galvanised steel.
- Supply of the rail, the strips and the fixings. Maximum load: 100 kg.

For wall-mounting enclosure	References
NSYPLM43	**NSYSFP300** (1)
NSYPLM54 and NSYPLM64	**NSYSFP400**
NSYPLM75	**NSYSFP500**
NSYPLM86	**NSYSFP600**

(1) **NSYSFP300** can be used for fixation of **NSYPLM32**; the length of the cross rail is slightly larger than enclosure.

PB501334

Blanking plates

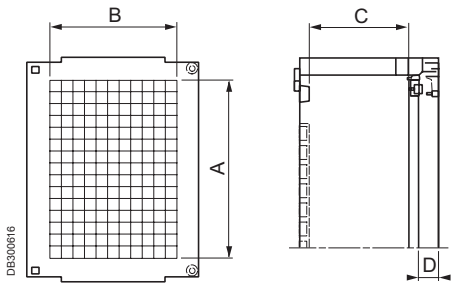
- Made from thermoplastic material, they are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve their appearance or prevent the entry of unwanted elements in the ventilation shaft.
- Supplied as standard for enclosure, ref. **NSYPLM108**.

For wall-mounting enclosure	References
NSYPLM32	**NSYCEPLMA**
NSYPLM43 and NSYPLM54	**NSYCEPLMB**
NSYPLM64, 75 and 86	**NSYCEPLMC**

Composition accessories
Door and door accessories

Internal door

- Reversible door made from polyester reinforced with fibreglass, self-extinguishing, RAL 7032 grey.
- Grid pattern with a pitch of 25 mm for easier marking out before drilling.
- Closes with 2 double-bar locks.
- Door handle.
- Delivered with fixings and brass inserts.
- Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025**.
- Incompatible with the modular distribution chassis.



For wall-mounting enclosure (mm)		Dimensions (mm)					References
Height	Width	A	B	C	Plain door	Transp. door	
					D	D	
308	255	248	165	62	76	71	**NSYPA3025PLM**
430	330	315	205	152	26	21	**NSYPAP43**
530	430	415	305	152	26	21	**NSYPAP54**
645	435	515	305	194	32	27	**NSYPAP64**
745	535	615	405	244	32	27	**NSYPAP75**
845	635	715	505	244	32	27	**NSYPAP86**
1055	850	850	650	269	37	32	**NSYPAP108**

Composition accessories
Locking system

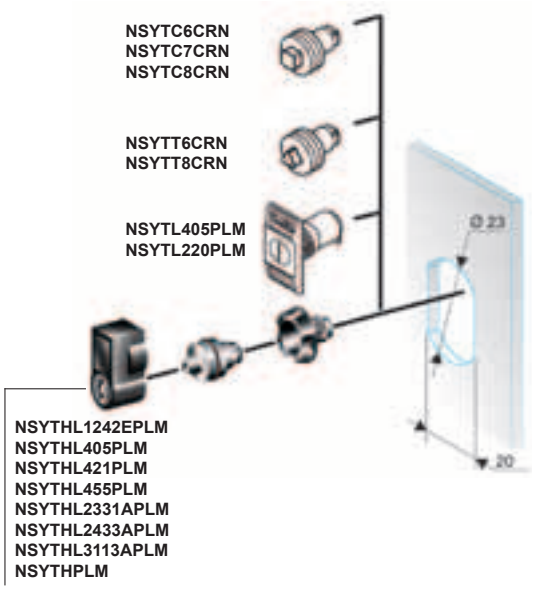
PB501336

Locks and inserts for enclosures with H ≤ 847 mm

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double-bar insert as standard.
- The 308 x 255 mm enclosure is supplied with two locks with a double-bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with:

– 2 locks with double-bar insert, ref. **NSYCDBPLM**.
– Or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM••V**).

- Double-bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double-bar insert, is included in the standard supply. This key can be fixed to the double-bar system to remain on the enclosure and be used as a handle.



PB501337

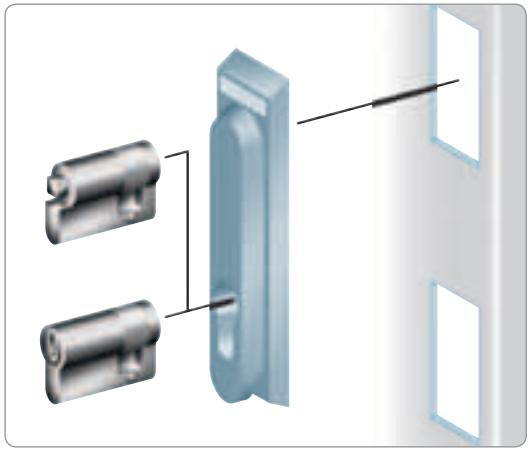
Options to transform the locks with double-bar inserts

- Changing the shape inserts for locks with keys according to the following table:

Name	References
6 mm male square	**NSYTC6CRN**
7 mm male square	**NSYTC7CRN**
8 mm male square	**NSYTC8CRN**
6.5 mm male triangle	**NSYTT6CRN**
8 mm male triangle	**NSYTT8CRN**
Lock and key 405	**NSYTL405PLM**
Lock and key 220	**NSYTL220PLM**

- Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Type of barrel	References
Key 1242 E	**NSYTHL1242EPLM**
Key 405	**NSYTHL405PLM**
Key 421	**NSYTHL421PLM**
Key 455	**NSYTHL455PLM**
Key 2331 A	**NSYTHL2331APLM**
Key 2433 A	**NSYTHL2433APLM**
Key 3113 A	**NSYTHL3113APLM**
Manual	**NSYTHPLM**

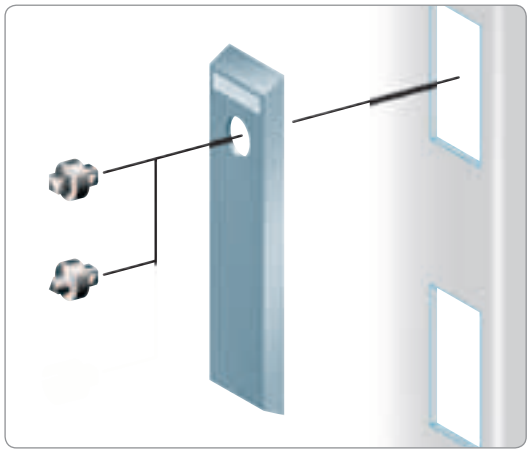

PB501338

Options to transform versions NSYPLM••V, with retractable handle and 3-point closure

- Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table:

Name	References
5 mm double bar	**NSYTDB5ME**
6 mm male square	**NSYTC6ME**
7 mm male square	**NSYTC7ME**
8 mm male square	**NSYTC8ME**
6.5 mm male triangle	**NSYTT6ME**
8 mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced key and barrel	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**
Manual	**NSYTMME**

Composition accessories
Locking system


PB501339

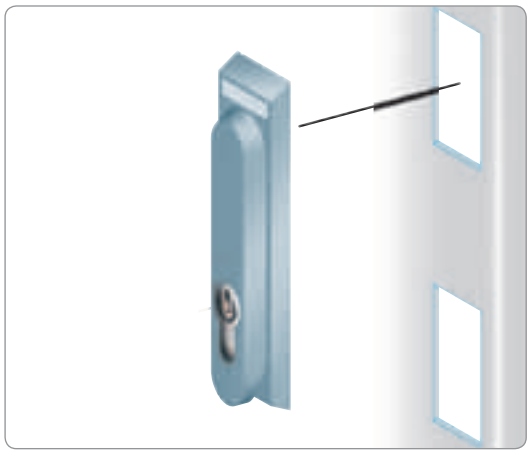
Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

Options to transform the insert

- The standard insert can be replaced with other shape inserts, according to the following table:

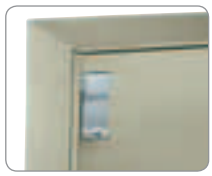
Name	References
6 mm male square	**NSYTC6PL**
7 mm male square	**NSYTC7PL**
8 mm male square	**NSYTC8PL**
6.5 mm male triangle	**NSYTT6PL**
7 mm male triangle	**NSYTT7PL**
8 mm male triangle	**NSYTT8PL**


PB501340

Options to transform for a retractable handle

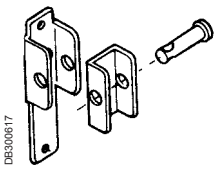
- The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table:

Name	References
5 mm double bar	**NSYTEDB5PL**
6 mm male square	**NSYTEC6PL**
7 mm male square	**NSYTEC7PL**
8 mm male square	**NSYTEC8PL**
6.5 mm male triangle	**NSYTET6PL**
7 mm male triangle	**NSYTET7PL**
8 mm male triangle	**NSYTET8PL**
Lock key 1242 E	**NSYTEL1242EPL**
Barrel and key 405	**NSYTEL405PL**
Reinforced key and barrel	**NSYTERPL**
JIS key and barrel	**NSYTELJISPL**
FAC key and barrel	**NSYTELFACPL**
Manual	**NSYTEMPL**

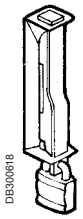

PB501341

Padlocking accessories

- Padlocking system, ref. **NSYKPLM**, positioned around the rectangular escutcheon of the enclosures with a height of ≤ 847 mm to block access to the lock; for a Ø 9 mm padlock.


DB300617

- Padlocking system, ref. **NSYBCPL**, positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108/T**, to block access to the lock; for a Ø 9 mm padlock.


DB300618

- Padlocking system, ref. **NSYBCME**, to block access to the retractable handle, for the versions **NSYPLM••V** or optionally for enclosures ref. **NSYPLM108/T**, for a Ø 9 mm padlock.

Mounting accessories

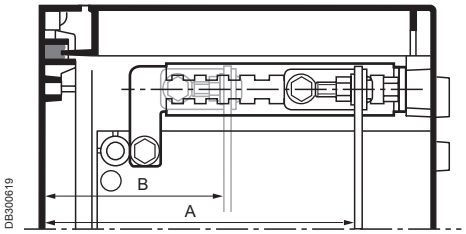
PB500149

Step slides

For depth adjustment of the mounting plate

- Kit including 4 step slides with brackets, allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation.
- Material: galvanised steel.
- Incompatible with the modular distribution chassis.

For wall mounting enclosure	Depth adjustment		References
Depth (mm)	Dimension A (mm)	Dimension B (mm)	
200	156	94	**NSYDPLM200**
250	200	100	**NSYDPLM250**
300	250	100	**NSYDPLM300**
350	306	106	**NSYDPLM350**



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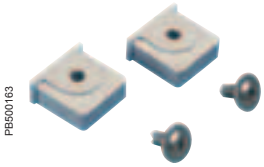

PB500163

Plastic nuts for rail fixing

- They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025/T**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

Name	References
Plastic nut with self- tapping screw	**NSYTCSPLM**
Plastic nut containing an M6 metal nut	**NSYTCSM6PLM**

PB501342

35 mm symmetrical DIN rails

- They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.
- Treated steel.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

Rail length (mm)	For wall mounting enclosure	References
	Width (mm)	
180	215	**NSYCS200PLM**
280	330	**NSYCS300PLM**
380	430 / 436	**NSYCS400PLM**
480	536	**NSYCS500PLM**
580	636	**NSYCS600PLM**
795	852	**NSYCS800PLM**

See also the accessories

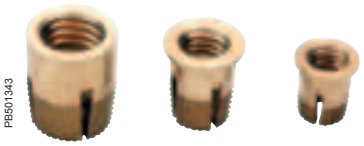
Vertical rails page **331**

Rails page **365**

Screws page **377**

Cable management Cable holding page **440**

Accessories
Diverse


PB501343

NSYTEX8 NSYTEX6 NSYTEX5

Fixing inserts

- Expanding inserts for addition to the M6 bosses of the enclosure, the M5 or M6 bosses of the door and the M8 bosses of the external rear part of the enclosure.
- M5 and M6 inserts to be ordered in multiples of 20.

References by unit. Order by multiples of 8 units (8, 16, 24, etc.).

Insert size	For wall-mounting enclosure	References
M5	**NSYPLM43** and **NSYPLM54**	**NSYTEX5**
M6	**NSYPLM64** and **NSYPLM108**	**NSYTEX6**
M8	For the rear of the enclosure	**NSYTEX8**

PB500164

NSYCAG35LP

Ventilation louvres

- They can be positioned inside the wall-mounting enclosures with heights of 430 to 846 mm, allowing ventilation through the channels of the enclosure.
- The IP on the rear of the enclosures is IP 44.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

Name	Reference
Ventilation louvres	**NSYCAG35LP**

Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.

PB500162

NSYVEA9

Water drain plug

- For drainage of condensation water.
- It is placed in the Ø 9 mm housing at the bottom of the enclosure.
- IP 55.

References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Name	Reference
Water drain plug	**NSYVEA9**

PB500191

Renovation and anti-graffiti paint

- Paint system with 2 components (base 80% + hardener 20%), specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener. It is enough to paint a surface of around 5 m^2.
- The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener. It is enough to paint a surface of around 25 m^2.
- RAL 7032 colour.
- Solvent for diluting the paint and cleaning the utensils.

Name	References
Anti-graffiti paint 1 kg	**NSYAUPG1**
Anti-graffiti paint 5 kg	**NSYAUPG5**
Anti-graffiti paint solvent 500 g	**NSYAUPGS**

See also the accessories

Power distribution rails page **460**

Lighting page **459**

Power distribution accessories
Modular distribution accessories

For ranges S3D*, CRN, S3X, PLM

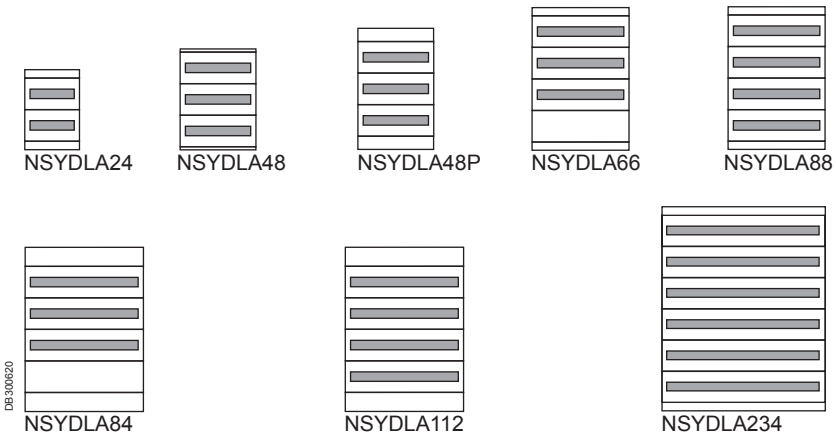
* Minimum depth 200 mm.

Technical characteristics

Dinimel DLA modular chassis

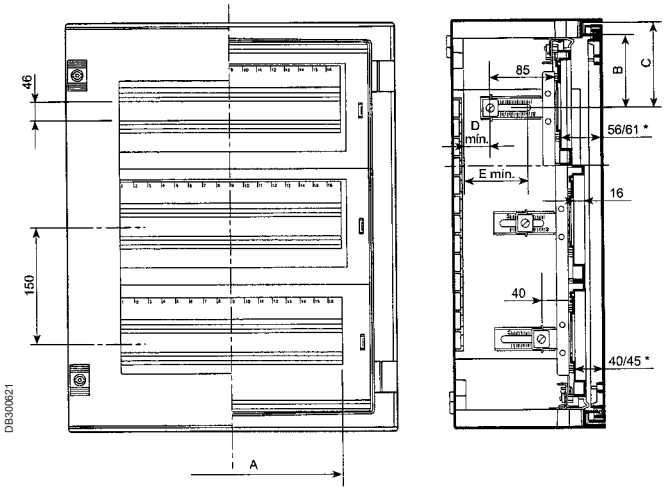
- Front panels and finish covers, made from self-extinguishing insulating material RAL 7032 colour. Rigid galvanised-steel structure, for the installation of modular devices.
- Front panels and covers installed in the front part, are not depth adjustable.
- Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model.
- Quick installation with no fixings.
- Shoulder height adjustable from 40 to 85 mm.
- System for standard circuit marking.
- Incompatible with the internal doors and the step slides.
- Neutral / earth strip: 2 x 16 mm^2 + 5 x 6 mm^2.

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	N° of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure		S3D (depth ≥ 200 mm) or CRN enclosure		
									References		Height	Width	
216	115	137	38	88	2	12	24	–	**NSYPLM43**	**NSYPLM43T**	400	300	**NSYDLA24**
286	90	112	38	88	3	16	48	–	**NSYPLM54**	**NSYPLM54T**	500	400	**NSYDLA48**
286	140	170	80	130	3	16	48	–	**NSYPLM64**	**NSYPLM64T**	600	400	**NSYDLA48P**
395	115	145	129	179	3	22	66	1	**NSYPLM75**	**NSYPLM75T**	700	500	**NSYDLA66**
395	115	145	129	179	4	22	88	–	**NSYPLM75**	**NSYPLM75T**	700	500	**NSYDLA88**
504	165	195	129	179	3	28	84	1	**NSYPLM86**	**NSYPLM86T**	800	600	**NSYDLA84**
504	165	195	129	179	4	28	112	–	**NSYPLM86**	**NSYPLM86T**	800	600	**NSYDLA112**
704	115	146	170	220	6	39	234	–	**NSYPLM108**	**NSYPLM108T**	1000	800	**NSYDLA234**



Power distribution accessories
Modular distribution accessories

Dimensions (mm)

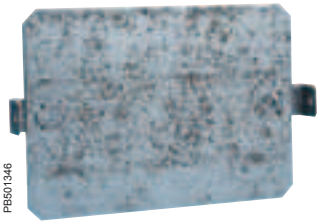


* Models NSYDLA48P, 66, 88, 84 and 112.

Plain front panels for Dinimel DLA chassis

- Front panel made from RAL 7032 self-extinguishing insulating material for non-modular device protection, on one row.
- To be ordered in multiples of 2.

For installing on the chassis	Width (mm)	References
NSYDLA24	256	**NSYCTL300DLA**
NSYDLA48 and NSYDLA48P	356	**NSYCTL400DLA**
NSYDLA66 and NSYDLA88	456	**NSYCTL500DLA**
NSYDLA84 and NSYDLA112	555	**NSYCTL600DLA**
NSYDLA234	755	**NSYCTL800DLA**



Mounting plate for Dinimel DLA chassis

- Galvanised-steel mounting plate for mounting non-modular devices, on one row.
- To be ordered in multiples of 2.

For installing on the chassis	Width (mm)	References
NSYDLA48 and NSYDLA48P	315	**NSYPMP400DLA**
NSYDLA66 and NSYDLA88	415	**NSYPMP500DLA**
NSYDLA84 and NSYDLA112	514	**NSYPMP600DLA**
NSYDLA234	714	**NSYPMP800DLA**

Modular distribution chassis for enclosure ref. PLM3025/T

- Metal chassis and protective plate in insulating material.
- For mounting modular devices on two rows of nine 18-mm modules.

Name	Reference
Modular distribution chassis	**NSYDLPLM18**

See also the accessories

Modular distribution accessories page **385**

Installation examples

Configured Specific

PB501286

Machined, coupled and equipped Thalassa PLS boxes

PB501287

Thalassa PLM wall-mounting enclosure machined in the factory to accommodate cable glands

PB501288

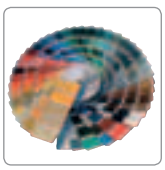
Thalassa PLA floor-standing enclosure with accessories installed in the factory

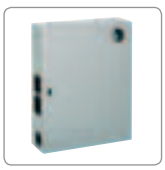
PB501289

Coupled Thalassa PLA floor-standing enclosures with accessories installed ain the factory

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501691
Construction changes

PB501692
Accessories

Insulating floor-standing enclosures

Insulating floor-standing enclosures
Contents

PB501353

Thalassa PLA Floor-standing in polyester **278**

PLA version: Completely sealed enclosure 280

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PLAT version: Ventilated canopy 281

PB500216

PLAZ version: Plinth-type open bottom 282

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PLAZT version: Plinth-type open bottom and ventilated canopy 283

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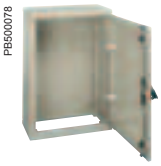
PB500078

Thalassa PLD Floor-standing DIN in polyester **313**

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Accessories 317

Polyester floor-standing enclosures

Service life

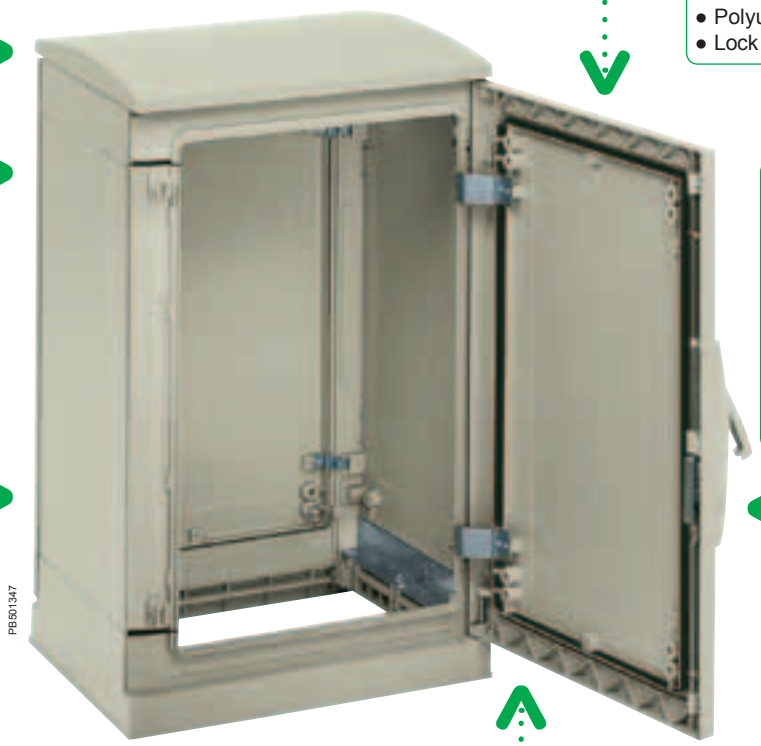
High resistance to corrosion in harsh environments, maintaining its mechanical and insulation properties.

Safety

- Full insulation (to create class II units).
- No risk to the public.
- Lock with 2 or 4-point closure.

Protection

- IP 44 or 54 and IP 65 in the industrial version.
- Polyurethane gasket.
- Lock outside sealed area.



Choice

4 enclosure versions, available in 40 dimensions with 3-door versions.

Smart

- Door with ripped surface to avoid posting.
- Reversible door (1-door enclosure).
- Numerous fixing bosses on the doors and panels.

Easy

- Opening to 120° or 180°.
- The central upright can be removed.
- Numerous fixing points.

Applications

- Industry or infrastructures in harsh environments.
- Accessories for modular distribution and 19".

Customisation

- Configured: machining and accessories.
- Specific: non-standard colours and accessories.
- Every possible combination of versions and doors, front and rear, not included in the standard offer.

Polyester floor-standing enclosures

General characteristics of the floor-standing enclosure

- Indoor or outdoor use.
- 4 versions:
  - Completely sealed enclosure (PLA version).
  - Enclosure with ventilated canopy (PLAT version).
  - Enclosure with plinth-type open bottom (PLAZ version).
  - Enclosure with plinth-type open bottom and ventilated canopy (PLAZT version).
  - Note: The first letters of the references relate to the version.
- 40 dimensions:
  - 5 heights: 500, 750, 1000, 1250, 1500 mm.
  - 4 widths: 500 and 750 (1 door), 1000 and 1250 mm (2 doors).
  - 2 depths: 320 and 420 mm.
  - Note: The figures included in the references of the enclosures and products of the range represent the dimension in dm of the product in question.
  - The 2-door enclosures comprise a central upright, which can be removed in certain conditions. Please contact us.
- 3 types of door:
  - Plain door.
  - Door with transparent window (index T at the end of the reference).
  - Door with anti-posting surface (index R at the end of the reference).
- Protection degree IP 65 or IP 54 according to standard IEC 60529.
- Impact resistance IK 10 for the plain doors and all sides and IK 08 for the glazed door.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 2-point closure for heights of 500 and 750 mm and 4-point closure points for heights ≥ 1000 mm.

Characteristics of the material

The floor-standing enclosures are made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey. This material:

- Is insulating: > 15 kV per mm.
- Can be machined easily.
- Is resistant to corrosion: does not rust and can withstand many chemical substances.
- Resists bad weather (rain, UV).
- Withstands cold and heat in the range of –50 °C…+150 °C.
- Does not soften under heat (ball resistance at +150 °C).
- Is self-extinguishing (does not propagate fire: HB40 classification and self-extinguishing in several seconds during the glow-wire test at 960 °C during 30 s.).
- Does not contain halogens.
- Releases little smoke and nontoxic smoke in the case of combustion.
- Is light.

Characteristics of the production process

The components of the enclosures (the various sides and doors) are moulded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories.

Complies with enclosure standard IEC 62208 for:

IP, IK, resistance to heat and fire, insulation 5000 V, resistance to bad weather and corrosion and resistance to internal loads (150 kg/m^2) and loads on the door (30 kg/m^2).

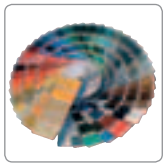
Full insulation to create class II units according to IEC 64139-1

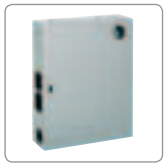
UL certification and NEMA classification 4X, 5, 12 and 13, depending on the version

Complies with RoHS and REACH Directives

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501691
Construction changes

PB501692
Accessories

Completely sealed enclosures, IP 65
Introduction

PB501353

Completely sealed enclosure with plain door.

PB501354

Transparent door made from polyester and tempered glass.

PB500192

Escutcheon with double-bar insert.

PB501355

Detail from the internal locking system.

Characteristics of the PLA version

- Enclosure obtained by assembling:
  – 1 sealed top part.
  – 1 sealed bottom part.
  – 2 side parts.
  – 1 or 2 rear panels (according to width).
  – 1 or 2 doors (according to width).
- Indoor use.
- Outdoor use possible with a canopy (to be ordered separately).
- Protection degree IP 65 according to IEC 60529.
- Locking system with escutcheon and 5-mm double-bar insert, included in the standard supply. Other inserts or locks with handles optionally available.
- Door opening to 120°.
- Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page **291**.
- Possibility of fixing on a semi-embedded plinth, see page **292**.
- Optional wall-fixing lugs.

PB500165

PB500166

PB500167

External dimensions (mm)				References of enclosures with door		
Height	Width	Depth	N° of doors	Plain	Glazed	Anti-posting
500	500	320	1	**NSYPLA553**	**NSYPLA553T**	**NSYPLA553R**
500	500	420	1	**NSYPLA554**	**NSYPLA554T**	**NSYPLA554R**
500	750	320	1	**NSYPLA573**	**NSYPLA573T**	**NSYPLA573R**
500	750	420	1	**NSYPLA574**	**NSYPLA574T**	**NSYPLA574R**
500	1000	320	2	**NSYPLA5103**	**NSYPLA5103T**	**NSYPLA5103R**
500	1000	420	2	**NSYPLA5104**	**NSYPLA5104T**	**NSYPLA5104R**
500	1250	320	2	**NSYPLA5123**	**NSYPLA5123T**	**NSYPLA5123R**
500	1250	420	2	**NSYPLA5124**	**NSYPLA5124T**	**NSYPLA5124R**
750	500	320	1	**NSYPLA753**	**NSYPLA753T**	**NSYPLA753R**
750	500	420	1	**NSYPLA754**	**NSYPLA754T**	**NSYPLA754R**
750	750	320	1	**NSYPLA773**	**NSYPLA773T**	**NSYPLA773R**
750	750	420	1	**NSYPLA774**	**NSYPLA774T**	**NSYPLA774R**
750	1000	320	2	**NSYPLA7103**	**NSYPLA7103T**	**NSYPLA7103R**
750	1000	420	2	**NSYPLA7104**	**NSYPLA7104T**	**NSYPLA7104R**
750	1250	320	2	**NSYPLA7123**	**NSYPLA7123T**	**NSYPLA7123R**
750	1250	420	2	**NSYPLA7124**	**NSYPLA7124T**	**NSYPLA7124R**
1000	500	320	1	**NSYPLA1053**	**NSYPLA1053T**	**NSYPLA1053R**
1000	500	420	1	**NSYPLA1054**	**NSYPLA1054T**	**NSYPLA1054R**
1000	750	320	1	**NSYPLA1073**	**NSYPLA1073T**	**NSYPLA1073R**
1000	750	420	1	**NSYPLA1074**	**NSYPLA1074T**	**NSYPLA1074R**
1000	1000	320	2	**NSYPLA10103**	**NSYPLA10103T**	**NSYPLA10103R**
1000	1000	420	2	**NSYPLA10104**	**NSYPLA10104T**	**NSYPLA10104R**
1000	1250	320	2	**NSYPLA10123**	**NSYPLA10123T**	**NSYPLA10123R**
1000	1250	420	2	**NSYPLA10124**	**NSYPLA10124T**	**NSYPLA10124R**
1250	500	320	1	**NSYPLA1253**	**NSYPLA1253T**	**NSYPLA1253R**
1250	500	420	1	**NSYPLA1254**	**NSYPLA1254T**	**NSYPLA1254R**
1250	750	320	1	**NSYPLA1273**	**NSYPLA1273T**	**NSYPLA1273R**
1250	750	420	1	**NSYPLA1274**	**NSYPLA1274T**	**NSYPLA1274R**
1250	1000	320	2	**NSYPLA12103**	**NSYPLA12103T**	**NSYPLA12103R**
1250	1000	420	2	**NSYPLA12104**	**NSYPLA12104T**	**NSYPLA12104R**
1250	1250	320	2	**NSYPLA12123**	**NSYPLA12123T**	**NSYPLA12123R**
1250	1250	420	2	**NSYPLA12124**	**NSYPLA12124T**	**NSYPLA12124R**
1500	500	320	1	**NSYPLA1553**	**NSYPLA1553T**	**NSYPLA1553R**
1500	500	420	1	**NSYPLA1554**	**NSYPLA1554T**	**NSYPLA1554R**
1500	750	320	1	**NSYPLA1573**	**NSYPLA1573T**	**NSYPLA1573R**
1500	750	420	1	**NSYPLA1574**	**NSYPLA1574T**	**NSYPLA1574R**
1500	1000	320	2	**NSYPLA15103**	**NSYPLA15103T**	**NSYPLA15103R**
1500	1000	420	2	**NSYPLA15104**	**NSYPLA15104T**	**NSYPLA15104R**
1500	1250	320	2	**NSYPLA15123**	**NSYPLA15123T**	**NSYPLA15123R**
1500	1250	420	2	**NSYPLA15124**	**NSYPLA15124T**	**NSYPLA15124R**

Enclosures with ventilated canopy IP 44
Introduction

PB500215

Enclosure with ventilated canopy and plain door.

PB501356

Open top part with canopy allowing for ventilation.

PB500193

External handle.

PB501357

Door with anti-posting surface and additional reinforcement.

PB501358

Various bosses for M8 inserts.

Characteristics of the PLAT version

- Enclosure obtained by assembling:
  – 1 open top part with canopy.
  – 1 sealed bottom part.
  – 2 side parts.
  – 1 or 2 rear panels (according to width).
  – 1 or 2 doors (according to width).
- Outdoor use.
- Protection degree IP 44 according to IEC 60529.
- Protection degree IP 54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately.
- Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 120°.
- Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page **291**.
- Possibility of fixing on a semi-embedded plinth, see page **292**.
- Optional wall-fixing lugs.

PB500170

PB500171

External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	**NSYPLAT553**	**NSYPLAT553R**
500	500	420	1	**NSYPLAT554**	**NSYPLAT554R**
500	750	320	1	**NSYPLAT573**	**NSYPLAT573R**
500	750	420	1	**NSYPLAT574**	**NSYPLAT574R**
500	1000	320	2	**NSYPLAT5103**	**NSYPLAT5103R**
500	1000	420	2	**NSYPLAT5104**	**NSYPLAT5104R**
500	1250	320	2	**NSYPLAT5123**	**NSYPLAT5123R**
500	1250	420	2	**NSYPLAT5124**	**NSYPLAT5124R**
750	500	320	1	**NSYPLAT753**	**NSYPLAT753R**
750	500	420	1	**NSYPLAT754**	**NSYPLAT754R**
750	750	320	1	**NSYPLAT773**	**NSYPLAT773R**
750	750	420	1	**NSYPLAT774**	**NSYPLAT774R**
750	1000	320	2	**NSYPLAT7103**	**NSYPLAT7103R**
750	1000	420	2	**NSYPLAT7104**	**NSYPLAT7104R**
750	1250	320	2	**NSYPLAT7123**	**NSYPLAT7123R**
750	1250	420	2	**NSYPLAT7124**	**NSYPLAT7124R**
1000	500	320	1	**NSYPLAT1053**	**NSYPLAT1053R**
1000	500	420	1	**NSYPLAT1054**	**NSYPLAT1054R**
1000	750	320	1	**NSYPLAT1073**	**NSYPLAT1073R**
1000	750	420	1	**NSYPLAT1074**	**NSYPLAT1074R**
1000	1000	320	2	**NSYPLAT10103**	**NSYPLAT10103R**
1000	1000	420	2	**NSYPLAT10104**	**NSYPLAT10104R**
1000	1250	320	2	**NSYPLAT10123**	**NSYPLAT10123R**
1000	1250	420	2	**NSYPLAT10124**	**NSYPLAT10124R**
1250	500	320	1	**NSYPLAT1253**	**NSYPLAT1253R**
1250	500	420	1	**NSYPLAT1254**	**NSYPLAT1254R**
1250	750	320	1	**NSYPLAT1273**	**NSYPLAT1273R**
1250	750	420	1	**NSYPLAT1274**	**NSYPLAT1274R**
1250	1000	320	2	**NSYPLAT12103**	**NSYPLAT12103R**
1250	1000	420	2	**NSYPLAT12104**	**NSYPLAT12104R**
1250	1250	320	2	**NSYPLAT12123**	**NSYPLAT12123R**
1250	1250	420	2	**NSYPLAT12124**	**NSYPLAT12124R**
1500	500	320	1	**NSYPLAT1553**	**NSYPLAT1553R**
1500	500	420	1	**NSYPLAT1554**	**NSYPLAT1554R**
1500	750	320	1	**NSYPLAT1573**	**NSYPLAT1573R**
1500	750	420	1	**NSYPLAT1574**	**NSYPLAT1574R**
1500	1000	320	2	**NSYPLAT15103**	**NSYPLAT15103R**
1500	1000	420	2	**NSYPLAT15104**	**NSYPLAT15104R**
1500	1250	320	2	**NSYPLAT15123**	**NSYPLAT15123R**
1500	1250	420	2	**NSYPLAT15124**	**NSYPLAT15124R**

Enclosures with plinth-type open bottom part, IP 54
Introduction

PB501359 PB500216

Enclosure with open bottom part.

Characteristics of the PLAZ version

- Enclosure obtained by assembling:
  – 1 sealed top part.
  – 1 plinth-type open bottom part.
  – 2 side parts.
  – 1 or 2 rear panels (according to width).
  – 1 or 2 doors (according to width).
- Indoor use.
- Outdoor use with a canopy (to be ordered separately).
- Protection degree IP 54 according to IEC 60529, for the 5 sides of the enclosure.
- Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 120°.
- The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page **291**, or else it is installed on a semi-embedded plinth, see page **292**.

PB501360

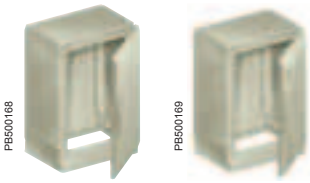
Polyurethane sealing gasket and 120° hinge.

PB500183

Detail from the plinth-type bottom part, equipped with a cable-entry plate (optional).

PB501361

Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.


PB500168 PB500169

External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	**NSYPLAZ553**	**NSYPLAZ553R**
500	500	420	1	**NSYPLAZ554**	**NSYPLAZ554R**
500	750	320	1	**NSYPLAZ573**	**NSYPLAZ573R**
500	750	420	1	**NSYPLAZ574**	**NSYPLAZ574R**
500	1000	320	2	**NSYPLAZ5103**	**NSYPLAZ5103R**
500	1000	420	2	**NSYPLAZ5104**	**NSYPLAZ5104R**
500	1250	320	2	**NSYPLAZ5123**	**NSYPLAZ5123R**
500	1250	420	2	**NSYPLAZ5124**	**NSYPLAZ5124R**
750	500	320	1	**NSYPLAZ753**	**NSYPLAZ753R**
750	500	420	1	**NSYPLAZ754**	**NSYPLAZ754R**
750	750	320	1	**NSYPLAZ773**	**NSYPLAZ773R**
750	750	420	1	**NSYPLAZ774**	**NSYPLAZ774R**
750	1000	320	2	**NSYPLAZ7103**	**NSYPLAZ7103R**
750	1000	420	2	**NSYPLAZ7104**	**NSYPLAZ7104R**
750	1250	320	2	**NSYPLAZ7123**	**NSYPLAZ7123R**
750	1250	420	2	**NSYPLAZ7124**	**NSYPLAZ7124R**
1000	500	320	1	**NSYPLAZ1053**	**NSYPLAZ1053R**
1000	500	420	1	**NSYPLAZ1054**	**NSYPLAZ1054R**
1000	750	320	1	**NSYPLAZ1073**	**NSYPLAZ1073R**
1000	750	420	1	**NSYPLAZ1074**	**NSYPLAZ1074R**
1000	1000	320	2	**NSYPLAZ10103**	**NSYPLAZ10103R**
1000	1000	420	2	**NSYPLAZ10104**	**NSYPLAZ10104R**
1000	1250	320	2	**NSYPLAZ10123**	**NSYPLAZ10123R**
1000	1250	420	2	**NSYPLAZ10124**	**NSYPLAZ10124R**
1250	500	320	1	**NSYPLAZ1253**	**NSYPLAZ1253R**
1250	500	420	1	**NSYPLAZ1254**	**NSYPLAZ1254R**
1250	750	320	1	**NSYPLAZ1273**	**NSYPLAZ1273R**
1250	750	420	1	**NSYPLAZ1274**	**NSYPLAZ1274R**
1250	1000	320	2	**NSYPLAZ12103**	**NSYPLAZ12103R**
1250	1000	420	2	**NSYPLAZ12104**	**NSYPLAZ12104R**
1250	1250	320	2	**NSYPLAZ12123**	**NSYPLAZ12123R**
1250	1250	420	2	**NSYPLAZ12124**	**NSYPLAZ12124R**
1500	500	320	1	**NSYPLAZ1553**	**NSYPLAZ1553R**
1500	500	420	1	**NSYPLAZ1554**	**NSYPLAZ1554R**
1500	750	320	1	**NSYPLAZ1573**	**NSYPLAZ1573R**
1500	750	420	1	**NSYPLAZ1574**	**NSYPLAZ1574R**
1500	1000	320	2	**NSYPLAZ15103**	**NSYPLAZ15103R**
1500	1000	420	2	**NSYPLAZ15104**	**NSYPLAZ15104R**
1500	1250	320	2	**NSYPLAZ15123**	**NSYPLAZ15123R**
1500	1250	420	2	**NSYPLAZ15124**	**NSYPLAZ15124R**

Enclosures with plinth-type open bottom part and ventilated canopy, IP 44: Introduction

PB501362

Enclosure with plinth-type open bottom part, ventilated canopy and anti-posting door.

Characteristics of the PLAZT version

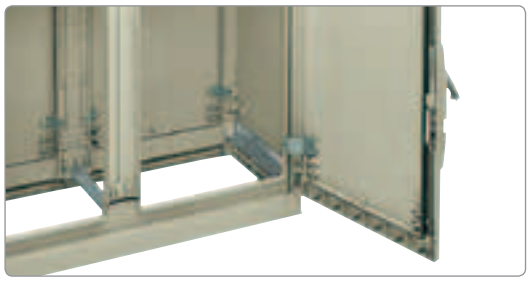
- Enclosure obtained by assembling:
  – 1 open top part with canopy.
  – 1 plinth-type open bottom part.
  – 2 side parts.
  – 1 or 2 rear panels (according to width).
  – 1 or 2 doors (according to width).
- Outdoor use.
- Protection degree IP 44 according to IEC 60529, for the 5 sides of the enclosure.
- Protection degree IP 54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately.
- Locking system with handle with a 5 mm double-bar insert block. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 180°.
- Anti-lever system to prevent forcing of the door.
- The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page **291**, or else it is installed on a semi-embedded plinth, see page **292**.

PB501363

Door opening to 180°.

PB501364

Anti-lever security system.


PB501365

Bottom part open for underground cable access.

PB501366

M8 fixing bosses on the inside of the door.

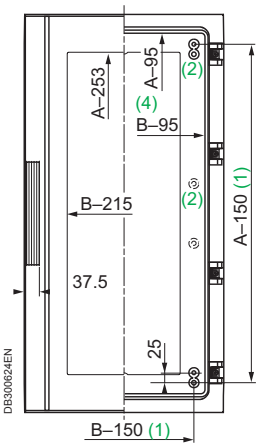
PB500172

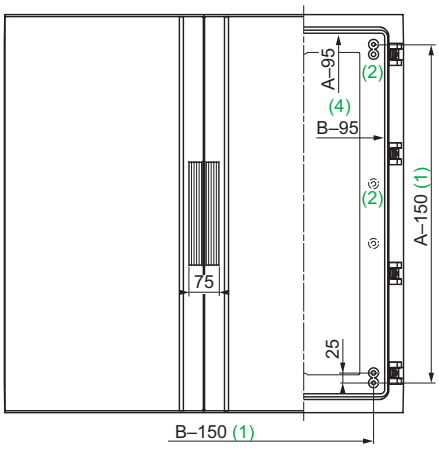
PB500173

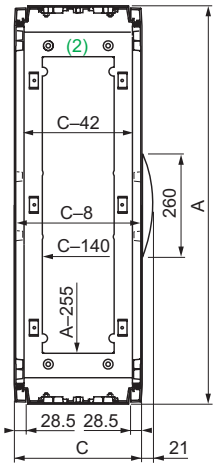
External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	NSYPLAZT553	NSYPLAZT553R
500	500	420	1	NSYPLAZT554	NSYPLAZT554R
500	750	320	1	NSYPLAZT573	NSYPLAZT573R
500	750	420	1	NSYPLAZT574	NSYPLAZT574R
500	1000	320	2	NSYPLAZT5103	NSYPLAZT5103R
500	1000	420	2	NSYPLAZT5104	NSYPLAZT5104R
500	1250	320	2	NSYPLAZT5123	NSYPLAZT5123R
500	1250	420	2	NSYPLAZT5124	NSYPLAZT5124R
750	500	320	1	NSYPLAZT753	NSYPLAZT753R
750	500	420	1	NSYPLAZT754	NSYPLAZT754R
750	750	320	1	NSYPLAZT773	NSYPLAZT773R
750	750	420	1	NSYPLAZT774	NSYPLAZT774R
750	1000	320	2	NSYPLAZT7103	NSYPLAZT7103R
750	1000	420	2	NSYPLAZT7104	NSYPLAZT7104R
750	1250	320	2	NSYPLAZT7123	NSYPLAZT7123R
750	1250	420	2	NSYPLAZT7124	NSYPLAZT7124R
1000	500	320	1	NSYPLAZT1053	NSYPLAZT1053R
1000	500	420	1	NSYPLAZT1054	NSYPLAZT1054R
1000	750	320	1	NSYPLAZT1073	NSYPLAZT1073R
1000	750	420	1	NSYPLAZT1074	NSYPLAZT1074R
1000	1000	320	2	NSYPLAZT10103	NSYPLAZT10103R
1000	1000	420	2	NSYPLAZT10104	NSYPLAZT10104R
1000	1250	320	2	NSYPLAZT10123	NSYPLAZT10123R
1000	1250	420	2	NSYPLAZT10124	NSYPLAZT10124R
1250	500	320	1	NSYPLAZT1253	NSYPLAZT1253R
1250	500	420	1	NSYPLAZT1254	NSYPLAZT1254R
1250	750	320	1	NSYPLAZT1273	NSYPLAZT1273R
1250	750	420	1	NSYPLAZT1274	NSYPLAZT1274R
1250	1000	320	2	NSYPLAZT12103	NSYPLAZT12103R
1250	1000	420	2	NSYPLAZT12104	NSYPLAZT12104R
1250	1250	320	2	NSYPLAZT12123	NSYPLAZT12123R
1250	1250	420	2	NSYPLAZT12124	NSYPLAZT12124R
1500	500	320	1	NSYPLAZT1553	NSYPLAZT1553R
1500	500	420	1	NSYPLAZT1554	NSYPLAZT1554R
1500	750	320	1	NSYPLAZT1573	NSYPLAZT1573R
1500	750	420	1	NSYPLAZT1574	NSYPLAZT1574R
1500	1000	320	2	NSYPLAZT15103	NSYPLAZT15103R
1500	1000	420	2	NSYPLAZT15104	NSYPLAZT15104R
1500	1250	320	2	NSYPLAZT15123	NSYPLAZT15123R
1500	1250	420	2	NSYPLAZT15124	NSYPLAZT15124R

Polyester floor-standing enclosures
Dimensions

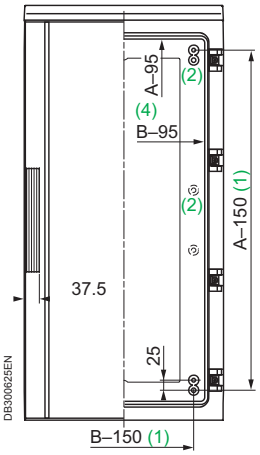
Sealed enclosure

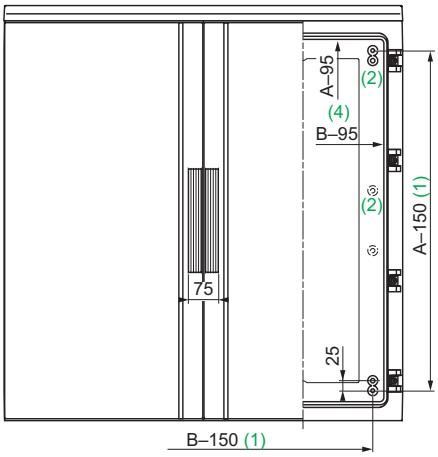


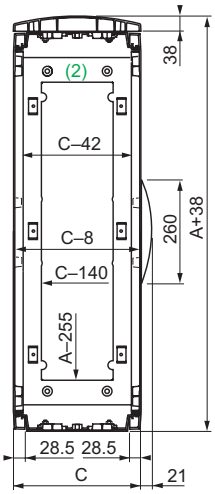




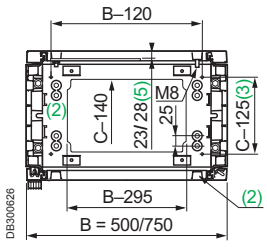
Enclosure with ventilated canopy

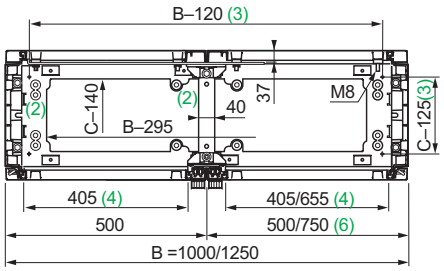






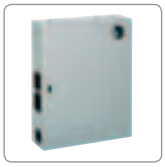
Common top views





Customised service: All standard dimensions from our catalogue on request and more...

Configured

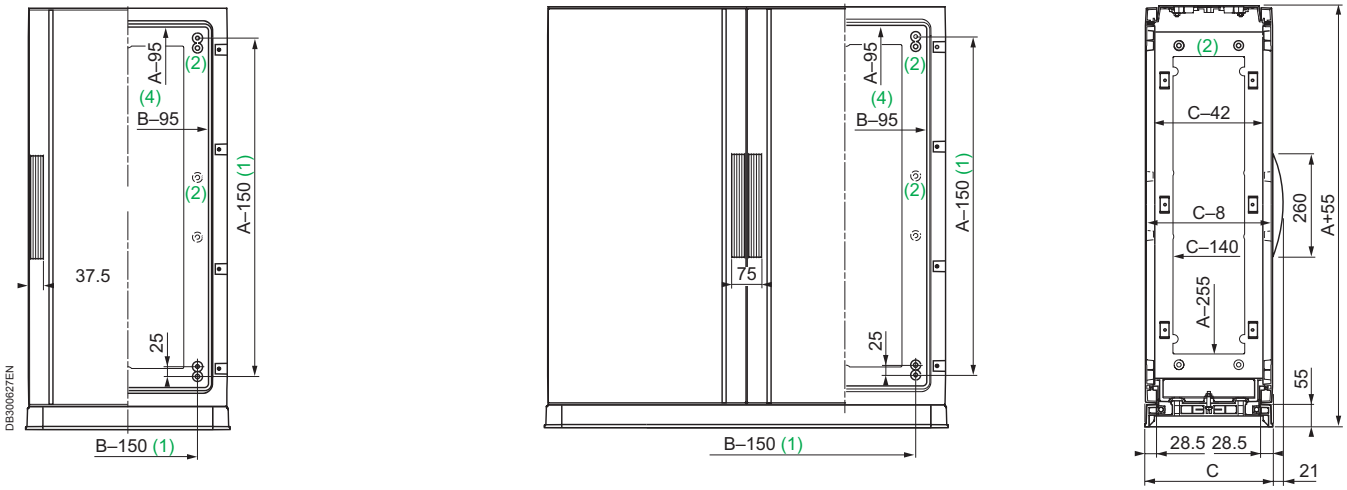

PB500359
Holes & Cutouts

PB501690
Mounting

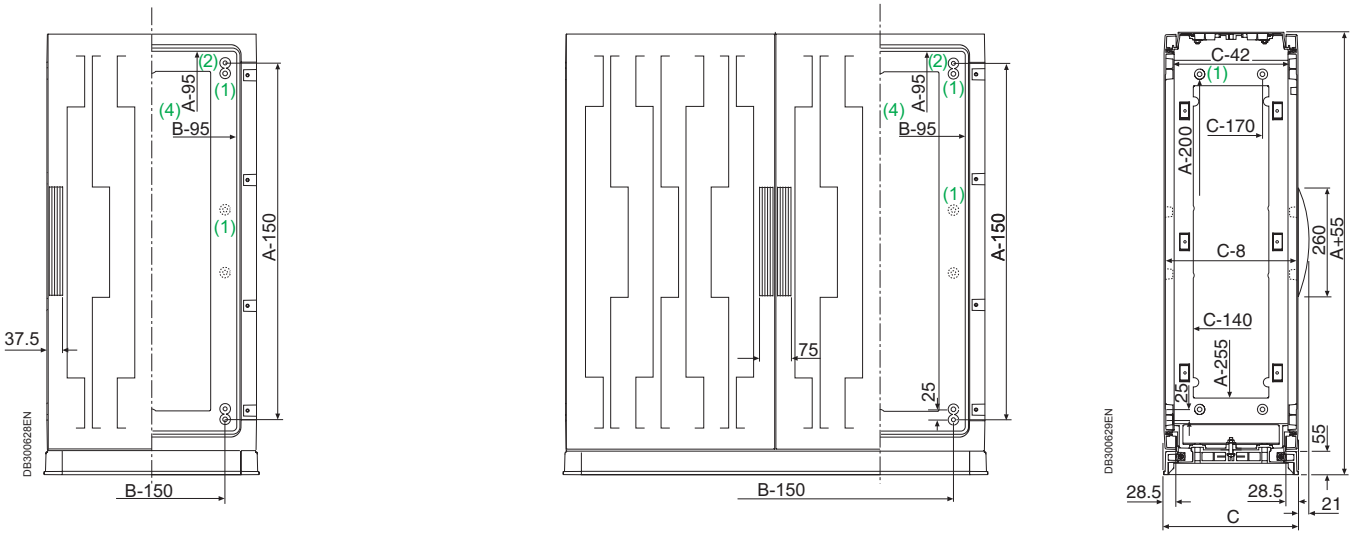
PB501692
Accessories

Polyester floor-standing enclosures
Dimensions

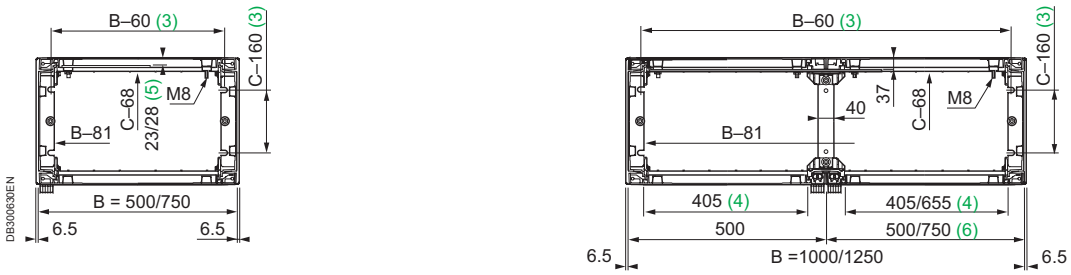
Enclosure with plinth-type open bottom part



Enclosure with ventilated canopy and plinth-type open bottom part



Common top views

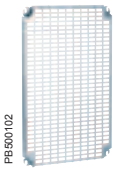


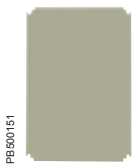
(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
(3) Dimensions for fixing on the floor or on a plinth.
(4) Entry dimensions, door open.
(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

Polyester floor-standing enclosures
Accessory selection guide

Mounting accessories

PB500072


PB500102


PB500151

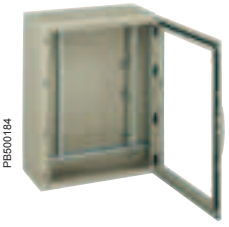
PB500103

PB500174

PB500175

Enclosure dimensions (mm)									
Height	Width	N° of doors	Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
			Plain	Telequick	Polyester	Bakelite			
			Page 301	Page 302	Page 301		Page 308		Page 297
500	500	1	**NSYPMM55**	**NSYPMR55**	**NSYPMA55**	**NSYPMB55**	-	-	**NSYPAPLA55**
500	750	1	**NSYPMM75**	**NSYPMR57**	**NSYPMA75**	**NSYPMB75**	-	-	**NSYPAPLA57**
500	1000	2	**NSYPMM510**	2 x **NSYPMR55**	**NSYPMA510**	**NSYPMB510**	-	-	2 x **NSYPAPLA55**
500	1250	2	**NSYPMM55** + **NSYPMM75**	**NSYPMR55** + **NSYPMR57**	**NSYPMA55** + **NSYPMA75**	**NSYPMB55** + **NSYPMB75**	-	-	**NSYPAPLA55** + **NSYPAPLA57**
750	500	1	**NSYPMM75**	**NSYPMR75**	**NSYPMA75**	**NSYPMB75**	**NSYDLP76**	**NSYDLP57**	**NSYPAPLA75**
750	750	1	**NSYPMM77**	**NSYPMR77**	**NSYPMA77**	**NSYPMB77**	**NSYDLP132**	**NSYDLP99**	**NSYPAPLA77**
750	1000	2	**NSYPMM710**	2 x **NSYPMR75**	**NSYPMA710**	**NSYPMB710**	2 x **NSYDLP76**	2 x **NSYDLP57**	2 x **NSYPAPLA75**
750	1250	2	**NSYPMM712**	**NSYPMR75** + **NSYPMR77**	**NSYPMA712**	**NSYPMB712**	**NSYDLP76** + **NSYDLP132**	**NSYDLP57** + **NSYDLP99**	**NSYPAPLA75** + **NSYPAPLA77**
1000	500	1	**NSYPMM105**	**NSYPMR105**	**NSYPMA105**	**NSYPMB105**	**NSYDLP114**	**NSYDLP95**	**NSYPAPLA105**
1000	750	1	**NSYPMM107**	**NSYPMR107**	**NSYPMA107**	**NSYPMB107**	**NSYDLP198**	**NSYDLP165**	**NSYPAPLA107**
1000	1000	2	**NSYPMM1010**	2 x **NSYPMR105**	**NSYPMA1010**	**NSYPMB1010**	2 x **NSYDLP114**	2 x **NSYDLP95**	2 x **NSYPAPLA105**
1000	1250	2	**NSYPMM1012**	**NSYPMR105** + **NSYPMR107**	**NSYPMA1012**	**NSYPMB1012**	**NSYDLP114** + **NSYDLP198**	**NSYDLP95** + **NSYDLP165**	**NSYPAPLA105** + **NSYPAPLA107**
1250	500	1	**NSYPMM125**	**NSYPMR125**	**NSYPMA125**	**NSYPMB125**	**NSYDLP133**	**NSYDLP114P**	**NSYPAPLA125**
1250	750	1	**NSYPMM127**	**NSYPMR127**	**NSYPMA127**	**NSYPMB127**	**NSYDLP231**	**NSYDLP198P**	**NSYPAPLA127**
1250	1000	2	**NSYPMM1210**	2 x **NSYPMR125**	**NSYPMA1210**	**NSYPMB1210**	2 x **NSYDLP133**	2 x **NSYPLD114P**	2 x **NSYPAPLA125**
1250	1250	2	**NSYPMM1212**	**NSYPMR125** + **NSYPMR127**	**NSYPMA1212**	**NSYPMB1212**	**NSYDLP133** + **NSYDLP231**	**NSYDLP114P** + **NSYDLP198P**	**NSYPAPLA125** + **NSYPAPLA127**
1500	500	1	**NSYPMM155**	**NSYPMR155**	-	**NSYPMB155**	**NSYDLP171**	**NSYDLP152**	**NSYPAPLA155**
1500	750	1	**NSYPMM157**	**NSYPMR157**	-	**NSYPMB157**	**NSYDLP297**	**NSYDLP264**	**NSYPAPLA157**
1500	1000	2	**NSYPMM1510**	2 x **NSYPMR155**	-	**NSYPMB1510**	2 x **NSYDLP171**	2 x **NSYDLP152**	2 x **NSYPAPLA155**
1500	1250	2	**NSYPMM1512**	**NSYPMR155** + **NSYPMR157**	-	**NSYPMB1512**	**NSYDLP171** + **NSYDLP297**	**NSYDLP152** + **NSYDLP264**	**NSYPAPLA155** + **NSYPAPLA157**

VDI accessories

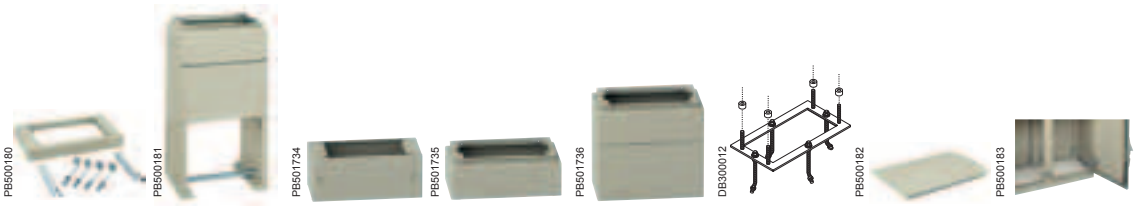

PB500184

PB500185

Enclosure dimensions (mm)		19" fixed chassis	Number of U	19" swing chassis	Number of U
Height	Width	Page 311		Page 311	
500	750	**NSYBRF8PLA**	8	**NSYBRP7PLA**	7
750	750	**NSYBRF12PLA** + **NSYSPLA75**	12	**NSYBRP11PLA** + **NSYSPLA75**	11
1000	750	**NSYBRF17PLA** + **NSYSPLA100**	17	**NSYBRP16PLA** + **NSYSPLA100**	16
1250	750	**NSYBRF21PLA** + **NSYSPLA125**	21	**NSYBRP20PLA** + **NSYSPLA125**	20
1500	750	**NSYBRF26PLA** + **NSYSPLA150**	26	**NSYBRP25PLA** + **NSYSPLA150**	25

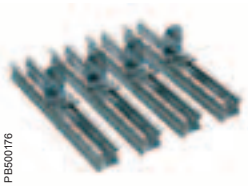
Polyester floor-standing enclosures
Accessory selection guide

Main accessories



Enclosure dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
		Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
Width	Depth	Page 291		Page 293	Page 294		Page 292	Page 295	Page 296
500	320	NSYZNPLA53	NSYZHPLA53	NSYZA253	NSYZZ253	NSYZZ553	NSYMFPLAZ53	NSYTJPLA53	NSYECPLAZ53
500	420	NSYZNPLA54	NSYZHPLA54	NSYZA273	NSYZZ273	NSYZZ573	NSYMFPLAZ54	NSYTJPLA54	NSYECPLAZ54
750	320	NSYZNPLA73	NSYZHPLA73	NSYZA2103	NSYZZ2103	NSYZZ5103	NSYMFPLAZ73	NSYTJPLA73	NSYECPLAZ73
750	420	NSYZNPLA74	NSYZHPLA74	NSYZA2123	NSYZZ2123	NSYZZ5123	NSYMFPLAZ74	NSYTJPLA74	NSYECPLAZ74
1000	320	NSYZNPLA103	NSYZHPLA103	NSYZA254	NSYZZ254	NSYZZ554	NSYMFPLAZ103	NSYTJPLA103	NSYECPLAZ103
1000	420	NSYZNPLA104	NSYZHPLA104	NSYZA274	NSYZZ274	NSYZZ574	NSYMFPLAZ104	NSYTJPLA104	NSYECPLAZ104
1250	320	NSYZNPLA123	NSYZHPLA123	NSYZA2104	NSYZZ2104	NSYZZ5104	NSYMFPLAZ123	NSYTJPLA123	NSYECPLAZ123
1250	420	NSYZNPLA124	NSYZHPLA124	NSYZA2124	NSYZZ2124	NSYZZ5124	NSYMFPLAZ124	NSYTJPLA124	NSYECPLAZ124

Step slides

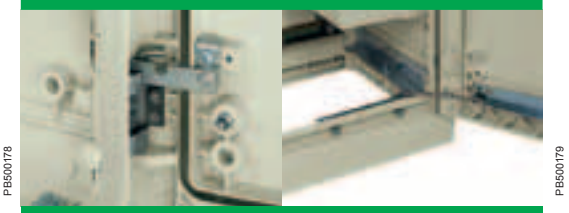


Page 303

Uprights and mounting rails

Page 305

Door retainer

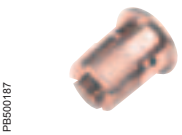


Page 297

Door switch

Page 298

Insert

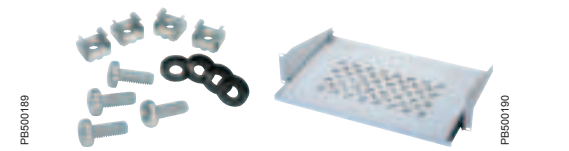


Page 305

Document pocket

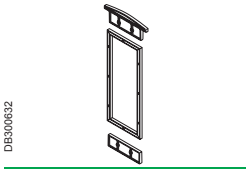
Page 469

VDI accessories and fixings



Page 646

Coupling Kit

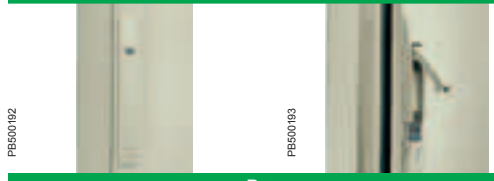


Page 289

Anti-graffiti paint

Page 307

Handles and inserts

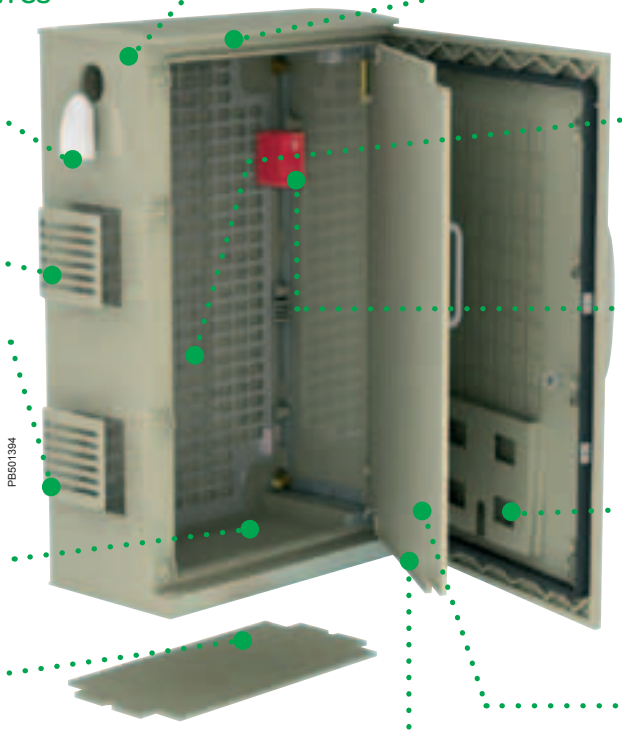


Page 299

Wall-fixing lug

Page 295

Accessories Selector

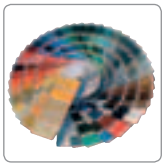


- For coupling Page **289**
- For mounting Page **301**
- Plastic ventilation louvres Page **685**
- For closing Page **299**
- Thermal management Page **658**
- Thermal control Page **663**
- Grille for IP 54 instead of IP 44 Page **295**
- Document pocket Page **469**
- Step slides Page **303**
- For the door Page **297**
- For cable entries (cable-gland plate) Page **296**
- For fixing Page **292**

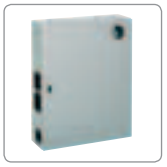
- For cable entries (membranes, cable-glands) Page **420**
- For supporting the cables Page **440**
- For cable management Page **446**

Customised service: All standard dimensions from our catalogue on request and more...

Configured



Paints



Holes & Cutouts

Mounting

Accessories

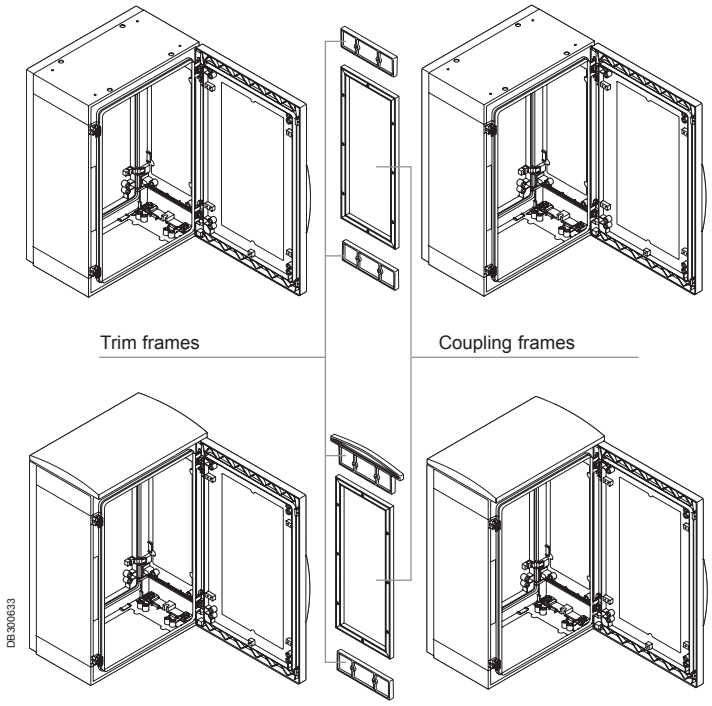
Composition accessories
Coupling accessories

Horizontal coupling kits

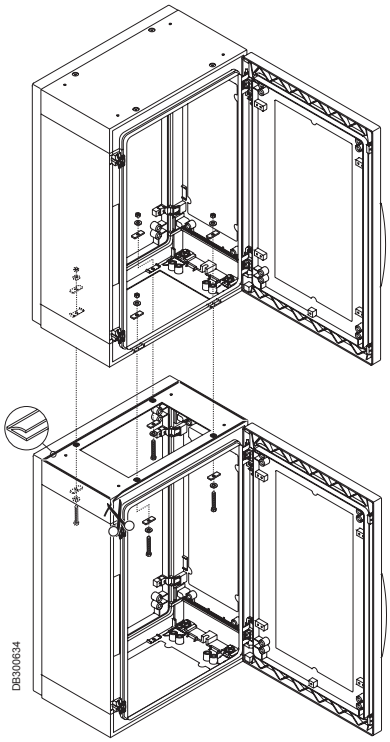
- For coupling 2 enclosures side by side.
- Coupling frame kit: made up of a coupling kit and the fixings required for installation.
- IP 55 at the coupling point.
- Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures.

For enclosure	References of coupling frame kit for enclosure (mm)	
Height (mm)	Depth 320	Depth 420
500	**NSYMUPLA53**	**NSYMUPLA54**
750	**NSYMUPLA73**	**NSYMUPLA74**
1000	**NSYMUPLA103**	**NSYMUPLA104**
1250	**NSYMUPLA123**	**NSYMUPLA124**
1500	**NSYMUPLA153**	**NSYMUPLA154**

For enclosure	References of trim kit for enclosure (mm)	
	Depth 320	Depth 420
Without canopy	**NSYSUPLA3**	**NSYSUPLA4**
With canopy	**NSYSUPLA3T**	**NSYSUPLA4T**



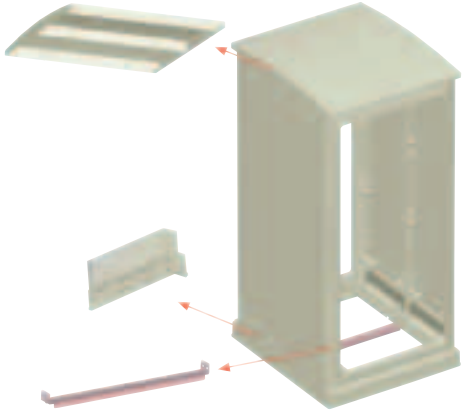
Composition accessories
Coupling accessories



Vertical coupling kit

- For coupling 2 enclosures on top of one another.
- Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.
- IP 55 at the coupling point.

Description	Reference
Vertical coupling kit	**NSYUVPLA**



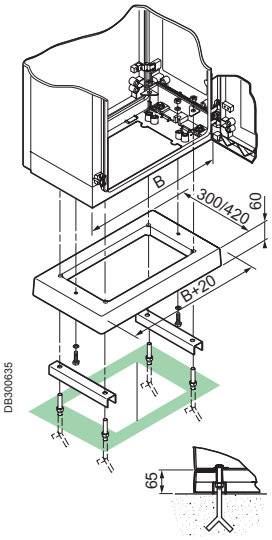
Specific Configured

Enhanced depth enclosure

- After industrial machining, the frames of the standard enclosures are coupled in the factory to obtain enhaced depth floor-standing enclosures.
- 3 possible depths: 575, 675 and 775 mm.
- The internal volume of the standard enclosures remains unaffected.
- Possible for the 4 enclosure versions, in particular for 19" applications with widths of 750 and 1250 mm.
- IP 44 in the version with ventilated canopy, IP 54 for the other versions.
- Roof made from polyester reinforced with fibreglass, for dimensions: 750 x 575 mm, 750 x 775 mm, 1250 x 575 mm and 1250 x 775 mm.
- A rear door can be installed in the coupled enclosures. Option of installing 2 sets of step slides (at the front and at the rear).
- Supply or installation in the enclosures of a 19" chassis with side trim plate installed on the step slides:
  – 19 U, height 1000 mm
  – 23 U, height 1250 mm
  – 25 U, height 1500 mm
- Configured offer for PLA and PLAZ versions with depth 575 and 775 mm.

Composition accessories
Base accessories

PB500180

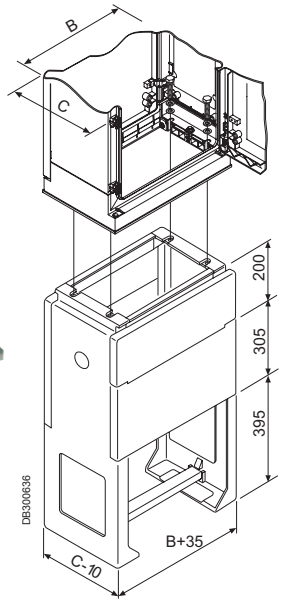


N Plinth height 60 mm

- Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).
- Polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey.

For floor-standing enclosure (mm)		Reference
Width (B)	Depth	
500	320	**NSYZNPLA53**
750	320	**NSYZNPLA73**
1000	320	**NSYZNPLA103**
1250	320	**NSYZNPLA123**
500	420	**NSYZNPLA54**
750	420	**NSYZNPLA74**
1000	420	**NSYZNPLA104**
1250	420	**NSYZNPLA124**

PB501368



PB500181

Buriable H Plinth height 900 mm

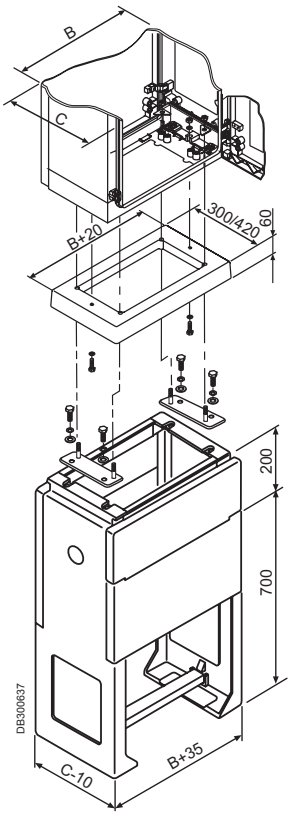
- Designed to be installed under the open-bottom enclosures (version PLAZ or PLAZT).
- Polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey.
- Front panel with a height of 170 mm, retractable, providing easy access to the inside.
- Fixed front panel with a height of 305 mm, corresponding to the finished floor height area.
- The height above the floor after building-in varies between 200 and 500 mm.
- A metal rail helps to fix the entry cables.
- Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm).
- A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.
- Delivered with the fixings required for installation.

For floor-standing enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	**NSYZHPLA53**
750	320	**NSYZHPLA73**
1000	320	**NSYZHPLA103**
1250	320	**NSYZHPLA123**
500	420	**NSYZHPLA54**
750	420	**NSYZHPLA74**
1000	420	**NSYZHPLA104**
1250	420	**NSYZHPLA124**

Specific

Optional removable top front plate, with two double-bar locks.

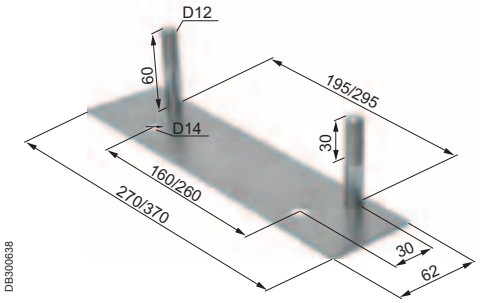
Composition accessories
Base accessories

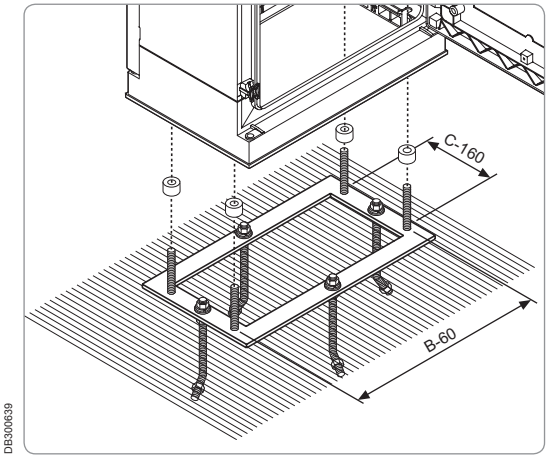


Connectors between plinths

- Designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- Composition: 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure (mm)	Description	Reference
Depth		
320	Linking parts for N plinth on 320-mm H plinth	**NSYAZ3PLA**
420	Linking parts for N plinth on 420-mm H plinth	**NSYAZ4PLA**

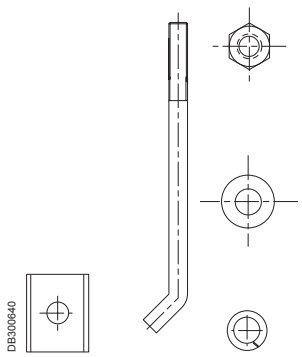




Floor-standing frame

- Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).
- Material: passivated zinc-coated steel.

For floor-standing enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	**NSYMFPLAZ53**
750	320	**NSYMFPLAZ73**
1000	320	**NSYMFPLAZ103**
1250	320	**NSYMFPLAZ123**
500	420	**NSYMFPLAZ54**
750	420	**NSYMFPLAZ74**
1000	420	**NSYMFPLAZ104**
1250	420	**NSYMFPLAZ124**



Floor-fixing studs

Set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.

Description	Reference
Fixing studs	**NSYFSPLAZ**

Composition accessories
Base accessories

PB501738

PB501739

ZA plinths for PLA enclosure (version PLA and PLAT)

Designed to support and raise the closed-bottom versions of PLA enclosures, in other words, references **NSYPLAxx** or **NSYPLATxx**:
- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.
- Plinth height of 200 mm; stackable to obtain a 400-mm plinth.
- Four floor-attachment points; the symmetry of the parts prevents incorrect assembly.

The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.
In stacked position, the bottom plinth can be partially buried.
It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.
The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.

For floor-standing enclosure				Plinth				Cable-gland area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
500 to 1500	500	320	**NSYPLA(T)x53**	200	494	250	**NSYZA253**	360	205
500 to 1500	750	320	**NSYPLA(T)x73**	200	744	250	**NSYZA273**	610	205
500 to 1500	1000	320	**NSYPLA(T)x103**	200	994	250	**NSYZA2103**	860	205
500 to 1500	1250	320	**NSYPLA(T)x123**	200	1244	250	**NSYZA2123**	1100	205
500 to 1500	500	420	**NSYPLA(T)x54**	200	494	350	**NSYZA254**	360	305
500 to 1500	750	420	**NSYPLA(T)x74**	200	744	350	**NSYZA274**	610	305
500 to 1500	1000	420	**NSYPLA(T)x104**	200	994	350	**NSYZA2104**	860	305
500 to 1500	1250	420	**NSYPLA(T)x124**	200	1244	350	**NSYZA2124**	1110	305

PB501740

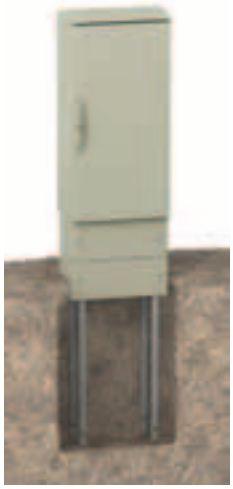
Cable supporting cross-rail

The lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
The reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253	NSYZA254	**NSYAC320**
NSYZA273	NSYZA274	**NSYAC560**
NSYZA2103	NSYZA2104	**NSYAC840**
NSYZA2123	NSYZA2124	**NSYAC1080**

Kit for IP 54

Makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection Ref. **NSYAEPZA**.


PB501741

Feet for partially buried installation

Allows the partially buried installation of plinths before completion of the floor.
The plinths are attached by four feet with a standard length of 750 mm.
Possibility of horizontal adjustment of the plinth.
The kit is made up of four feet and fixings, ref. **NSYAEBFZ**.

Composition accessories
Base accessories

PB501742

PB501743

ZZ plinths for PLA enclosure (version PLAZ and PLAZT)

Designed to support and raise the open-bottom versions of PLA enclosures, in other words, references **NSYPLAZ** or **NSYPLAZT**:
- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.

The offer consists of two plinths, with heights of 200 mm and 500 mm.
Four floor-attachment points; the symmetry of the parts prevents incorrect assembly.
The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables.
The 500-mm plinth can be partially buried.
It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth.

For floor-standing enclosure				Plinth				Cable-gland area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
500 to 1500	500	320	**NSYPLAZ(T)x53**	200	535	310	**NSYZZ253**	419	252
500 to 1500	750	320	**NSYPLAZ(T)x73**	200	785	310	**NSYZZ273**	669	252
500 to 1500	1000	320	**NSYPLAZ(T)x103**	200	1035	310	**NSYZZ2103**	919	252
500 to 1500	1250	320	**NSYPLAZ(T)x123**	200	1285	310	**NSYZZ2123**	1169	252
500 to 1500	500	420	**NSYPLAZ(T)x54**	200	535	410	**NSYZZ254**	419	352
500 to 1500	750	420	**NSYPLAZ(T)x74**	200	785	410	**NSYZZ274**	669	352
500 to 1500	1000	420	**NSYPLAZ(T)x104**	200	1035	410	**NSYZZ2104**	919	352
500 to 1500	1250	420	**NSYPLAZ(T)x124**	200	1285	410	**NSYZZ2124**	1169	352
500 to 1500	500	320	**NSYPLAZ(T)x53**	500	535	310	**NSYZZ553**	419	252
500 to 1500	750	320	**NSYPLAZ(T)x73**	500	785	310	**NSYZZ573**	669	252
500 to 1500	1000	320	**NSYPLAZ(T)x103**	500	1035	310	**NSYZZ5103**	919	252
500 to 1500	1250	320	**NSYPLAZ(T)x123**	500	1285	310	**NSYZZ5123**	1169	252
500 to 1500	500	420	**NSYPLAZ(T)x54**	500	535	410	**NSYZZ554**	419	352
500 to 1500	750	420	**NSYPLAZ(T)x74**	500	785	410	**NSYZZ574**	669	352
500 to 1500	1000	420	**NSYPLAZ(T)x104**	500	1035	410	**NSYZZ5104**	919	352
500 to 1500	1250	420	**NSYPLAZ(T)x124**	500	1285	410	**NSYZZ5124**	1169	352

PB501744

Cable supporting cross-rail

The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
The reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253	NSYZZ254	NSYZZ553	NSYZZ554	**NSYAC360**
NSYZZ273	NSYZZ274	NSYZZ573	NSYZZ574	**NSYAC600**
NSYZZ2103	NSYZZ2104	NSYZZ5103	NSYZZ5104	**NSYAC840**
NSYZZ2123	NSYZZ2124	NSYZZ5123	NSYZZ5124	**NSYAC1120**

PB501737

Outside opening kit

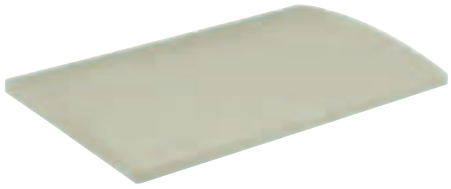
The 200-mm front part of the 200- and 500-mm plinths can be opened from the outside, after installing a kit made up of two locks with double-bar insert, ref. **NSYAELZ**.

PB501745

Feet for partially buried installation

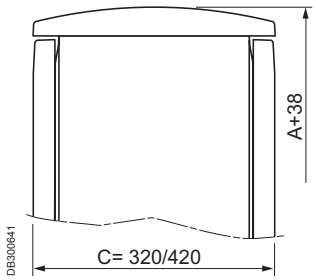
Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm.
Possibility of horizontal adjustment of the plinth.
The reference includes a kit made up of four feet and fixings, ref. **NSYAEBFZ**.

Composition accessories
Top-mounting accessories
Fixing accessories


PB501369

Canopy

- Polyester material reinforced with fibreglass, moulded by hot compression, self-extinguishing, RAL 7032 grey.
- It can be installed in all enclosure models.
- High resistance to impacts, temperature and bad weather.
- Delivered with the fixings required for installation.
- Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.
- Essential for outdoor use.



DB300641

For enclosure (mm)		Reference
Width	Depth (C)	
500	320	**NSYTJPLA53**
750	320	**NSYTJPLA73**
1000	320	**NSYTJPLA103**
1250	320	**NSYTJPLA123**
500	420	**NSYTJPLA54**
750	420	**NSYTJPLA74**
1000	420	**NSYTJPLA104**
1250	420	**NSYTJPLA124**

PB501055

Grille for IP 54 instead of IP 44

- For enclosure versions PLAT and PLAZT.
- It is installed from the inside in the upper ventilation opening.
- Delivered with G2 M1 standard synthetic filter, see **ClimaSys** section.
- 1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures.
- Prevents the entry of dust and provides the enclosure with IP 5X protection at the top.
- Maintains the possibility of ventilation.

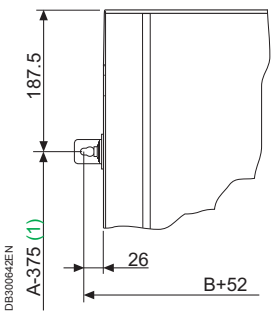
Description	Reference
Outlet grille	**NSYCAG125LPF**

PB500194

Wall-fixing lugs

- Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height ≥ 1000 mm).
- Drilling positions and marks inside the side panels.
- Passivated zinc-coated material.
- Maximum acceptable load: 180 kg.
- Set of 6 lugs and fixings.
- 10 mm fixing plane on the rear of the enclosure plane.

Description	Reference
Wall-fixing lugs	**NSYFMPLA**



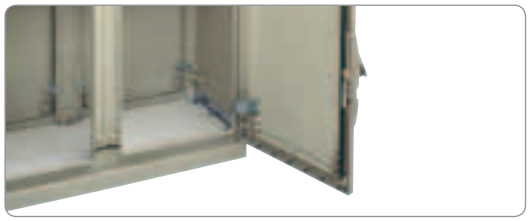
DB300642EN

(1) For enclosures with height ≥ 1000 mm, 1 extra lug at the centre of the A-375 side.

Specific

Available stainless-steel wall-fixing lugs.

Composition accessories
Cable-entry accessories

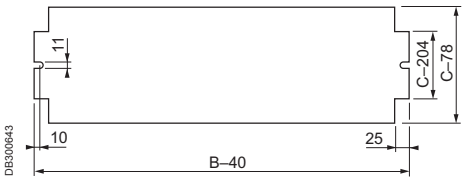

PB500183

Cable-entry plate

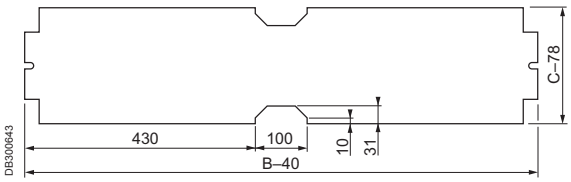
- Designed to be installed inside the enclosures with open bottom part (version PLAZ or PLAZT).
- Polyester material reinforced with fibreglass, thickness 4 mm.
- Easy drilling in specific customised version.
- Delivered with the fixings required for installation.
- Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution.

For enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	**NSYECPLAZ53**
750	320	**NSYECPLAZ73**
1000	320	**NSYECPLAZ103**
1250	320	**NSYECPLAZ123**
500	420	**NSYECPLAZ54**
750	420	**NSYECPLAZ74**
1000	420	**NSYECPLAZ104**
1250	420	**NSYECPLAZ124**

Cable-entry plate (1-door enclosure)



Cable-entry plate (2-door enclosure)



See also the accessories

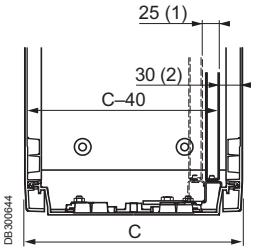
Cable management
Cable entries
page **421**

Cable holding
page **440**

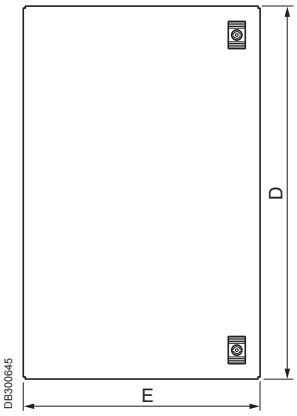
Composition accessories
Door and door accessories

Internal door

- Aluminium door, RAL 7032 grey.
- Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**.
- 2 depthwise mounting positions (1) according to the chosen M8 impressions, on the top and bottom parts of the enclosure, for fixing.
- Lock with 5-mm double-bar inserts.
- Delivered with M8 brass inserts and fixings.
- Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.



(1) Two positions for depthwise installation.
(2) The 2nd position moves the position of the internal door back by 25 mm.



For enclosure (mm)		Reference	Internal door dimensions		Weight (kg)
Height	Width		D	E	
500	500	**NSYPAPLA55**	398	398	1.6
500	750	**NSYPAPLA57**	398	648	2.2
500	1000	2 x **NSYPAPLA55**	398	796 (2 x 398)	3.2 (2 x 1.6)
500	1250	**NSYPAPLA55** + **NSYPAPLA57**	398	1046 (398 + 648)	3.8 (1.6 + 2.2)
750	500	**NSYPAPLA75**	648	398	2.2
750	750	**NSYPAPLA77**	648	648	3.1
750	1000	2 x **NSYPAPLA75**	648	796 (2 x 398)	4.4 (2 x 2.2)
750	1250	**NSYPAPLA75** + **NSYPAPLA77**	648	1046 (398 + 648)	5.3 (2.2 + 3.1)
1000	500	**NSYPAPLA105**	898	398	2.8
1000	750	**NSYPAPLA107**	898	648	4.1
1000	1000	2 x **NSYPAPLA105**	898	796 (2 x 398)	5.4 (2 x 2.8)
1000	1250	**NSYPAPLA105** + **NSYPAPLA107**	898	1046 (398 + 648)	6.9 (2.8 + 4.1)
1250	500	**NSYPAPLA125**	1148	398	3.4
1250	750	**NSYPAPLA127**	1148	648	5
1250	1000	2 x **NSYPAPLA125**	1148	796 (2 x 398)	6.8 (2 x 3.4)
1250	1250	**NSYPAPLA125** + **NSYPAPLA127**	1148	1046 (398 + 648)	8.4 (3.4 + 5)
1500	500	**NSYPAPLA155**	1398	398	4
1500	750	**NSYPAPLA157**	1398	648	6
1500	1000	2 x **NSYPAPLA155**	1398	796 (2 x 398)	8 (2 x 4)
1500	1250	**NSYPAPLA155** + **NSYPAPLA157**	1398	1046 (398 + 648)	10 (4 + 6)

NSYRETPLA

NSYRETPLAU

Door retainer

- Designed to adapt directly to the enclosure.
- 2 models available according to the type of enclosure:
– 1 model opening to 110° for enclosure versions PLA, PLAZ and PLAT.
– 1 model with 2 positions, 90° and 120°, for all the versions (warning: this solution is incompatible with certain accessories), see below.
- Can be installed on a door opening to the left or right indistinctly.
- Material: galvanised steel.
- Delivered with the fixings required for installation.

For enclosure	Reference
Version PLA, PLAZ, PLAT	**NSYRETPLA**
For all versions	**NSYRETPLAU**

Note: Ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable-entry plates. In the event of incompatibility, use ref. **NSYRETPLAZ**.

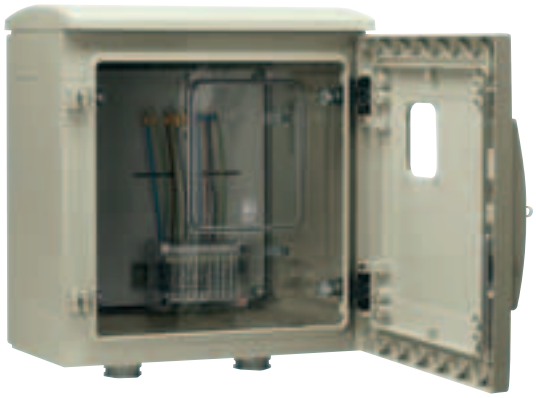
Composition accessories
Door and door accessories

PB500186

Door switch

- Supply: switch, fixing bracket and fixings.
- NC + NO switch.
- Incompatible with the rear door and modular distribution chassis.

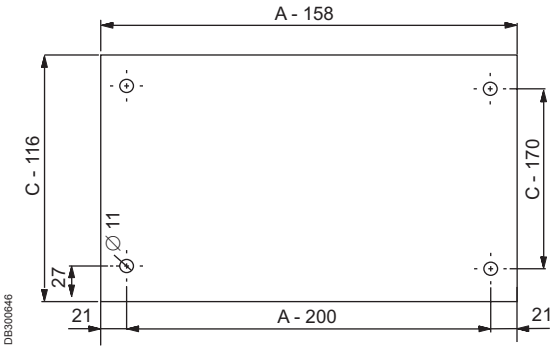
Description	Reference
Door switch	**NSYSNLPLA**


PB501371

Protection and support screen

- Protective screen made from transparent polycarbonate, protecting access to the switchgear of small enclosures.
- The screen is fixed using accessory, ref. **NSYSPTR77**, to be ordered separately.
- The screens and fixing accessories are to be ordered in multiples of 5.

For enclosure (mm)		Reference
Width (A)	Height (C)	
500	500	**NSYPPTR55**
750	500	**NSYPPTR57**
500	750	**NSYPPTR75**
750	750	**NSYPPTR77**

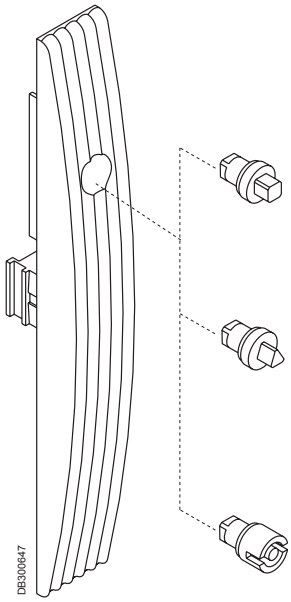


DB300646

See also the accessories

Document pocket page **469**

Composition accessories
Locking system



Locks with escutcheon and without handle

- Standard supply for the enclosures with sealed top and bottom parts (PLA version).
- With 5 mm double-bar insert.
- PA6 material charged with fibreglass.
- RAL 7032 grey.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK 10.
- Insert breakage torque: 15 daN.

Options for changing the form-insert (supplied with the required operating key)

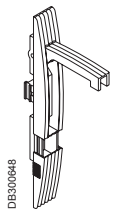
Description	Reference
7 mm square insert	**NSYTC7CRN**
8 mm square insert	**NSYTC8CRN**
6.5 mm triangular insert	**NSYTT6CRN**
8 mm triangular insert	**NSYTT8CRN**
5 mm double-bar insert	**NSYTDB5PLA**

NSYBCPLA

Padlocking device

- Padlocking accessory, preventing access to the lock-control insert. Opening diameter: 14 mm.

Description	Reference
Padlocking device	**NSYBCPLA**



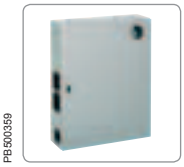
NSYEBMPLA

Options for changing the handle lock

- Options for changing the escutcheon and the insert for a handle lock, ref. **NSYEBMPLA**, delivered without barrel or insert block.
- The insert or barrel are to be chosen from the option table on the next page.

Customised service: All standard dimensions from our catalogue on request and more...

Configured

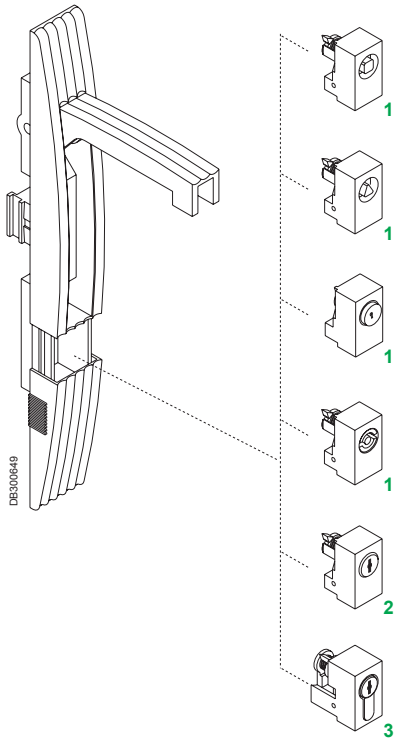


Holes & Cutouts

Mounting

Accessories

Composition accessories
Locking system



1 Block with form insert.
2 Block with cylindrical barrel.
3 Block with semi-cylindrical barrel.

Lock with handle

- Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part (versions PLAT, PLAZ and PLAZT), with a 5 mm double-bar insert block.
- Material: PA6 charged with 30% fibreglass.
- RAL 7032 grey.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK 10.

Options for changing the form-insert blocks (supplied with the required operating key)

Description	Reference
Block, 6 mm square insert	**NSYINS61**
Block, 7 mm square insert	**NSYINS71**
Block, 8 mm square insert	**NSYINS81**
Block, 6.5 mm triangular insert	**NSYINT61**
Block, 8 mm triangular insert	**NSYINT81**
Push-button	**NSYTSPLA**
Double bar	**NSYINDB51**

Options for changing the blocks with cylindrical barrels

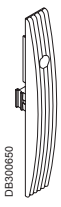
Type of key	Reference
405 E key	**NSYIN405E1**
421 E key	**NSYIN421E1**
455 key	**NSYIN4551**
1242 E key	**NSYIN1242E1**
1332 E key	**NSYIN1332E1**
2131 A key	**NSYIN2131A1**
2132 A key	**NSYIN2132A1**
2331 A key	**NSYIN2331A1**
2433 A key	**NSYIN2433A1**

Type of key	Reference
2452 E key	**NSYIN2452E1**
3113 A key	**NSYIN3113A1**
3122 E key	**NSYIN3122E1**
3123 A key	**NSYIN3123A1**
3133 A key	**NSYIN3133A1**
3422 E key	**NSYIN3422E1**
3432 E key	**NSYIN3432E1**
EDF 1300 key	**NSYINF1301**
EDF 1400 key	**NSYINF1401**

Options for changing the blocks with semi-cylindrical barrels

Description	Reference
1242 E key	**NSYIN1242E2**
DIN adapter	**NSYINDIN2**
JIS key	**NSYINKJIS2**
Reinforced key	**NSYINKR2**
FAC key	**NSYINKFAC2**

NSYCBCMPLA



NSYEBPLA

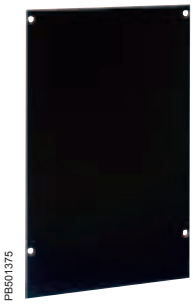
Options for changing the handle

- Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.
- Options for changing the handle lock for a lock with an escutcheon and without handle, delivered without insert. The insert is to be chosen from the option table on the previous page:

Description	Reference
Padlocking handle, without barrel or insert block	**NSYCBCMPLA**
Escutcheon without handle, without insert	**NSYEBPLA**

Mounting accessories
Installation accessories

PB501374


PB501375

Metallic mounting plate and insulating mounting plate

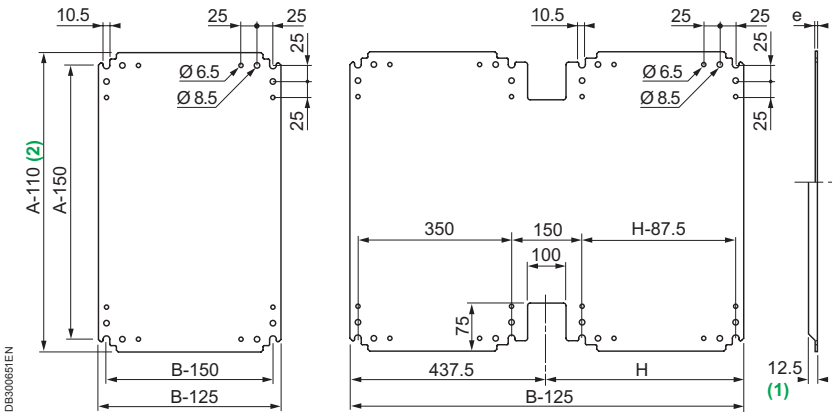
Plain mounting plate

- Galvanised sheet-steel mounting plate.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page **303**). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.
- Maximum acceptable load: 150 kg/m².
- Thickness: 2.5 mm.

Insulating mounting plate

- Bakelite mounting plate, RAL 9005 black.
- Polyester mounting plate, RAL 7035.
- Maximum acceptable load: 150 kg/m².
- Thickness: 4 mm for the 55 and 75 plates, 5 mm for the other plates.

For enclosure (mm)		Mounting plate references			Surf. (dm²)	H (mm)
Height (A)	Width (B)	Plain	Insulating			
			Bakelite	Polyester		
500	500	**NSYPMM55**	**NSYPMB55**	**NSYPMA55**	14	-
500	750	**NSYPMM75**	**NSYPMB75**	**NSYPMA75**	24	-
500	1000	**NSYPMM510**	**NSYPMB510**	**NSYPMA510**	32	437.5
500	1250	**NSYPMM55 + NSYPMM75**	**NSYPMB55 + NSYPMB75**	**NSYPMA55 + NSYPMA75**	-	-
750	500	**NSYPMM75**	**NSYPMB75**	**NSYPMA75**	24	-
750	750	**NSYPMM77**	**NSYPMB77**	**NSYPMA77**	40	-
750	1000	**NSYPMM710**	**NSYPMB710**	**NSYPMA710**	54	437.5
750	1250	**NSYPMM712**	**NSYPMB712**	**NSYPMA712**	70	687.5
1000	500	**NSYPMM105**	**NSYPMB105**	**NSYPMA105**	33	-
1000	750	**NSYPMM107**	**NSYPMB107**	**NSYPMA107**	55	-
1000	1000	**NSYPMM1010**	**NSYPMB1010**	**NSYPMA1010**	74	437.5
1000	1250	**NSYPMM1012**	**NSYPMB1012**	**NSYPMA1012**	96	687.5
1250	500	**NSYPMM125**	**NSYPMB125**	**NSYPMA125**	42	-
1250	750	**NSYPMM127**	**NSYPMB127**	**NSYPMA127**	70	-
1250	1000	**NSYPMM1210**	**NSYPMB1210**	**NSYPMA1210**	96	437.5
1250	1250	**NSYPMM1212**	**NSYPMB1212**	**NSYPMA1212**	124	687.5
1500	500	**NSYPMM155**	**NSYPMB155**	**-**	51	-
1500	750	**NSYPMM157**	**NSYPMB157**	**-**	85	-
1500	1000	**NSYPMM1510**	**NSYPMB1510**	**-**	118	437.5
1500	1250	**NSYPMM1512**	**NSYPMB1512**	**-**	152	687.5



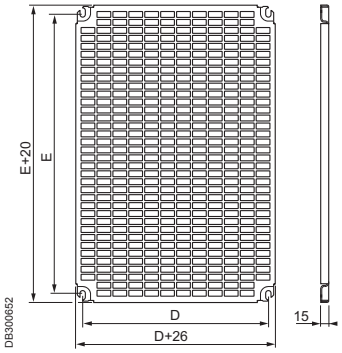
(1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.
(2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA●●●**.
Note: The diagrams above relate to the metal mounting plates. The mounting plates made from insulating material only have 4 or 8 main fixing points and the external dimensions of the diagrams.

Mounting accessories
Installation accessories

PB501376

Telequick mounting plate

- It allows any switchgear to be mounted on the same plane without drilling or tapping.
- Grille made from galvanised sheet steel, with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page **303**). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- Maximum acceptable load: 150 kg/m^2.



For enclosure (mm)		Reference	Dimensions (mm)		Surface (dm^2)
Height	Width		E	D	
500	500	**NSYPMR55**	350	350	15.3
500	750	**NSYPMR57**	350	600	24.6
500	1000	2 x **NSYPMR55**	350	2 x 350	30.6 (2 x 15.3)
500	1250	**NSYPMR55** + **NSYPMR57**	350	350 600	39.9 (15.3 + 24.6)
750	500	**NSYPMR75**	600	350	25.5
750	750	**NSYPMR77**	600	600	51.1
750	1000	2 x **NSYPMR75**	600	2 x 350	51 (2 x 25.5)
750	1250	**NSYPMR75** + **NSYPMR77**	600	350 600	76.6 (25.5 + 51.1)
1000	500	**NSYPMR105**	850	350	35.7
1000	750	**NSYPMR107**	850	600	57.5
1000	1000	2 x **NSYPMR105**	850	2 x 350	71.4 (2 x 35.7)
1000	1250	**NSYPMR105** + **NSYPMR107**	850	350 600	93.2 (35.7 + 57.5)
1250	500	**NSYPMR125**	1100	350	45.9
1250	750	**NSYPMR127**	1100	600	74
1250	1000	2 x **NSYPMR125**	1100	2 x 350	91.8 (2 x 45.9)
1250	1250	**NSYPMR125** + **NSYPMR127**	1100	350 600	119.9 (45.9 + 74)
1500	500	**NSYPMR155**	1350	350	56.1
1500	750	**NSYPMR157**	1350	600	90.4
1500	1000	2 x **NSYPMR155**	1350	2 x 350	112.2 (2 x 56.1)
1500	1250	**NSYPMR155** + **NSYPMR157**	1350	350 600	146.5 (56.1 + 90.4)

See also the accessories

Telequick mounting plate accessories page **347**

Mounting accessories
Installation accessories

PB500176

Step slides

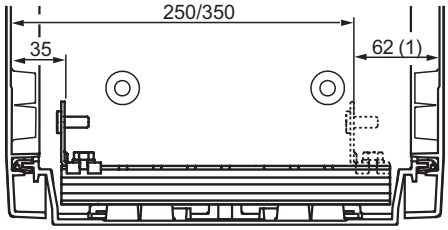
- Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm.
- Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT).
- In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates (see tables below and description on the next page).
- Material: bracket with steel M8 stud on aluminium rail.
- Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied).
- Incompatibility with: internal door, modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.

For enclosure		Reference	
Depth (mm)	N° of doors	Step slides	Adapter plates
320	1	**NSYDPLA3**	**NSYPTZ3**
420	1	**NSYDPLA4**	**NSYPTZ4**
320	2	2 x **NSYDPLA3**	**NSYPTZ32P**
420	2	2 x **NSYDPLA4**	**NSYPTZ42P**

PB501377

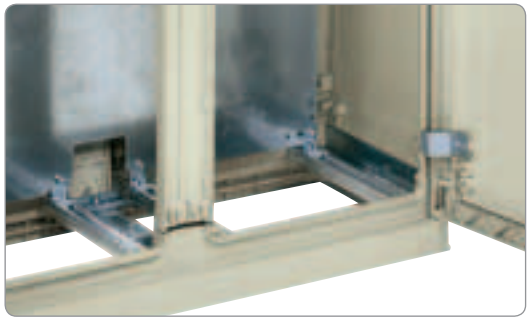
NSYDPLA

Installation of step slide ref. NSYDPLA●●●



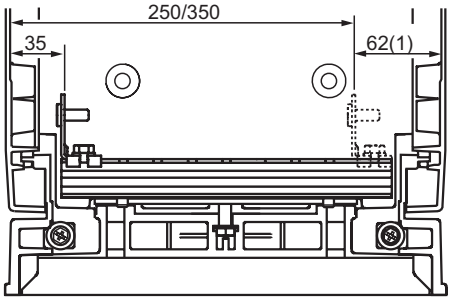
DB300653

(1) 57 mm with one transparent door.


PB501378

NSYDPLA and NSYPTZ

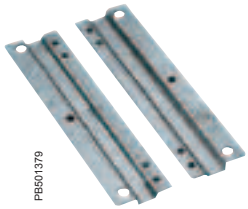
Installation of step slide ref. NSYDPLA●●●, with adapter plate ref. NSYPTZ●●●



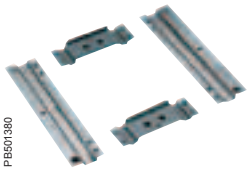
DB300654

(1) 57 mm with one transparent door.

Mounting accessories
Installation accessories



NSYPTZ●●●

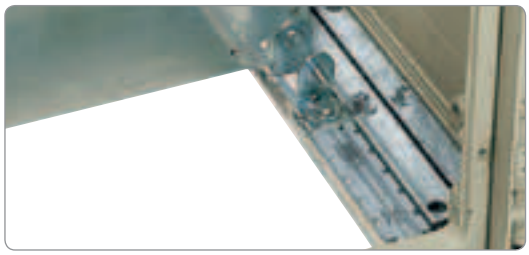


NSYPTZ●●●2P

Adapter plates

- The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting:
– an internal door
– step slides
– modular chassis and 19" chassis
- Material: galvanised steel.
- Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied).

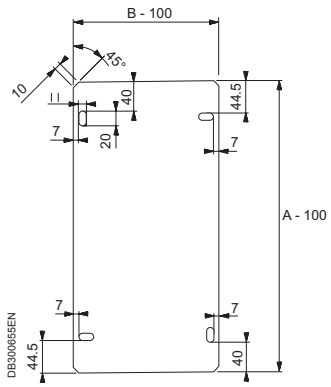
For enclosure		Reference
Depth (mm)	N° of doors	
320	1	**NSYPTZ3**
420	1	**NSYPTZ4**
320	2	**NSYPTZ32P**
420	2	**NSYPTZ42P**



Additional support

- Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.

Description	Reference
Additional support	**NSYEDPLA**

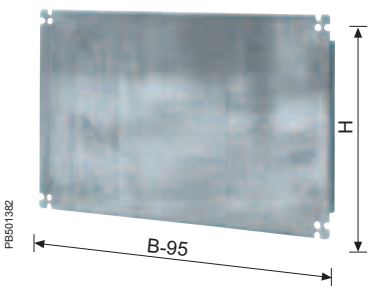


Side mounting plates

- Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. **NSYTEX8**.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

For enclosure (mm)		Reference
Height (A)	Depth (B)	
500	320	**NSYPMLA53**
500	420	**NSYPMLA54**
750	320	**NSYPMLA73**
750	420	**NSYPMLA74**
1000	320	**NSYPMLA103**
1000	420	**NSYPMLA104**
1250	320	**NSYPMLA123**
1250	420	**NSYPMLA124**



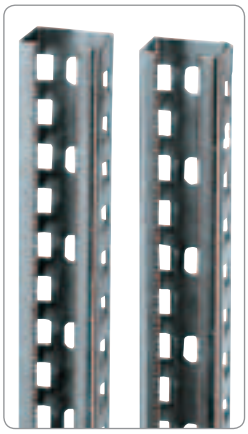
Partial plain mounting plate

- Galvanised sheet-steel mounting plate.
- Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.
- Maximum acceptable load: 150 kg/m^2.

For enclosure	Mounting plate height H (mm)	Fixing centre-to-centre distance		Reference
Width B (mm)		Vertical	Horizontal	
750	247	600	200	**NSYSPMP2575**
1000	247	850	200	**NSYSPMP25100**
1000	397	850	350	**NSYSPMP40100**

Mounting accessories
Installation accessories

PB501383

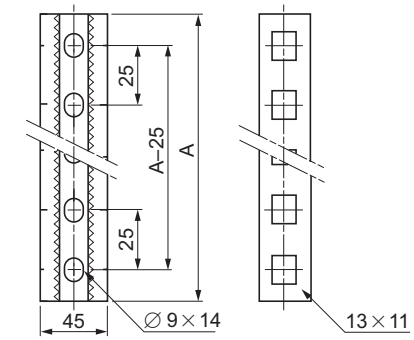

PB501384

Technical uprights

- Supports for fixing rails, perforated grilles and plain partial mounting plates.
- Use the suitable fixings and accessories shown in the common accessory section.
- Material: steel, 2 mm thick.
- Batch of 2 pieces.
- Fixing at the rear on the M8 inserts or on the step slides.

For enclosure Height (mm)	References	Dimensions
750	**NSYTVR7**	625
1000	**NSYTVR10**	875
1250	**NSYTVR125**	1125
1500	**NSYTVR15**	1375

Note: Enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.

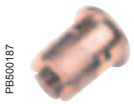


DB300656

PB500177

Rails

- Fixings and accessories: see common accessories.


PB500187

M8 inserts

- To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.

References by unit. Order by multiples of 8 units (8, 16, 24, etc.).

Description	Reference
M8 inserts	**NSYTEX8**

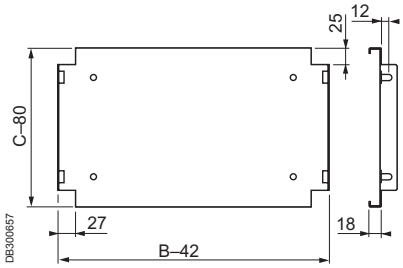
See also the accessories

Other uprights page **344**

Rails and fixings page **367**

Fixing accessories page **742**

Mounting accessories
Equipment support accessories



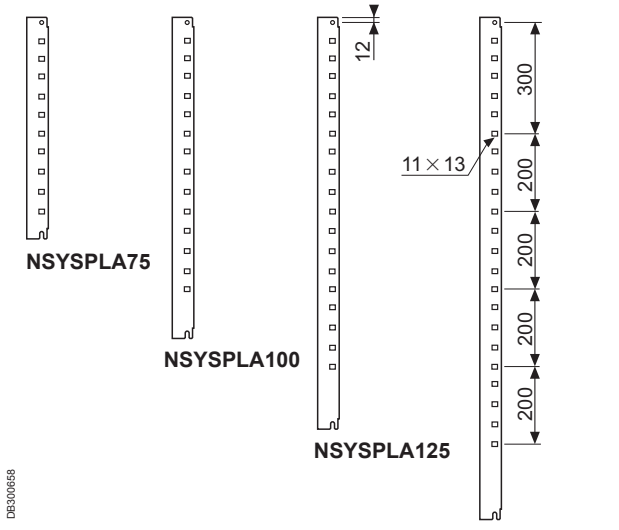
Support plate

- Designed to support assorted equipment or simply to install a separation.
- It is installed directly on the bottom part of the enclosure.
- For the installation of one or several support plates, use 2 sets of 2 uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm.
- Galvanised-steel material.
- Delivered with the fixings required for installation.
- In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented below.

For enclosure (mm)		Max. load	Plate Reference
Depth (C)	Width (B)		
320	500	60 kg	**NSYBANPLA53**
320	750	60 kg	**NSYBANPLA73**
420	500	50 kg	**NSYBANPLA54**
420	750	50 kg	**NSYBANPLA74**

NSYSPLA100

For enclosure Height (mm)	N° of adjustments	Upright Reference
500	-	-
750	2	2 x **NSYSPLA75**
1000	3	2 x **NSYSPLA100**
1250	4	2 x **NSYSPLA125**
1500	5	2 x **NSYSPLA150**

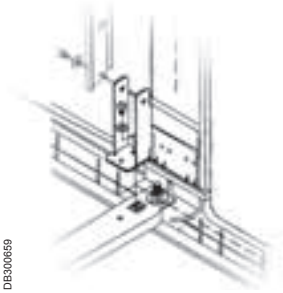


NSYSPLA75

NSYSPLA100

NSYSPLA125

NSYSPLA150



Intermediate support in the 2-door enclosures

- Required accessory for installing support plates, ref. **NSYBANPLA•••** or uprights, ref. **NSYSPLA•••** in the 2-door enclosures.

Description	Reference
Intermediate support	**NSYSBPLA**

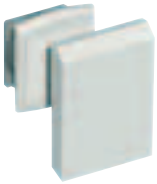
Accessories

PB500191

Renovation and anti-graffiti paint

- 2-component paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti.
- Paint composed of: base (80%) and hardener (20%).
- RAL 7032 grey.
- 2 references available:
  - 1 kg:
    - 800 g tin of base paint
    - 200 g tin of hardener
  - 5 kg:
    - 4 kg tin of base paint
    - 1 kg tin of hardener
- Coverage
  - 1 kg = 5 m²
  - 5 kg = 25 m²
- Solvent in 500 g bottles to be used as a paint thinner or to clean brushes.

Description	Reference
Anti-graffiti paint 1 kg	**NSYAUPG1**
Anti-graffiti paint 5 kg	**NSYAUPG5**
Anti-graffiti paint solvent 500 g	**NSYAUPGS**



PB501047

PB501026

Discover our ClimaSys thermal management offer

- Ventilation accessories.
- Filters.
- Regulation accessories.

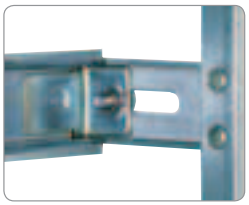
See also the accessories

Current distribution accessories (rail of sockets) page **460**

Lighting page **459**

Power distribution accessories
Modular distribution accessories

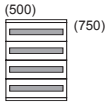
PB501387


PB501388

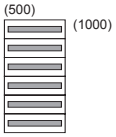
Details of the depth adjustment.

Modular distribution chassis

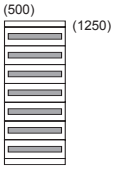
- Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**).
- Chassis made up of cover plates, made from self-extinguishing insulating material, RAL 7032 grey, on a rigid galvanised-steel structure.
- Quick installation without fixings.
- Distance between rail and front panel with adjustable depth from 40 to 85 mm.
- System for identifying electrical circuits supplied.
- Neutral/earth strip: 2x16 mm² + 5x6 mm² included in the standard offer.
- Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. **NSYRETPLAU**).



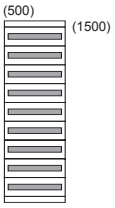
NSYDLP76



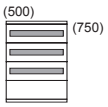
NSYDLP114



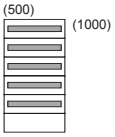
NSYDLP133



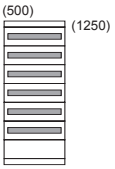
NSYDLP171



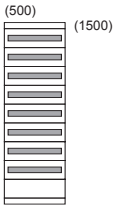
NSYDLP57



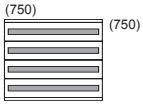
NSYDLP95



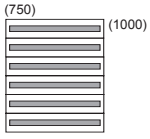
NSYDLP114P



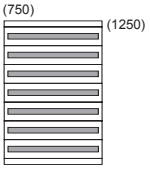
NSYDLP152



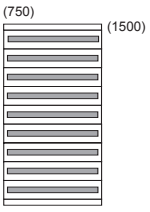
NSYDLP132



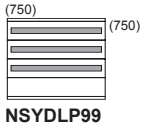
NSYDLP198



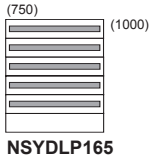
NSYDLP231



NSYDLP297



DB300660
NSYDLP99



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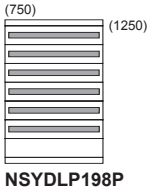
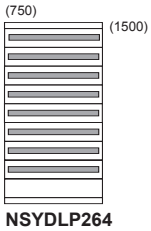


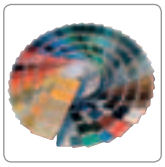
NSYDLP198P

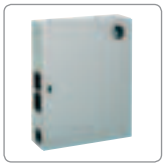


NSYDLP264

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501691
Construction changes

PB501692
Accessories

Power distribution accessories
Modular distribution accessories

For enclosures (mm)		N° of doors	Reference	Row distribution			
				N° of rows	Rows for module		Number of plates
Height	Width				Number	Number of 18-mm modules	
750	500	1	**NSYDLP76**	4	4	76	-
750	500	1	**NSYDLP57**	4	3	57	1
750	750	1	**NSYDLP132**	4	4	132	-
750	750	1	**NSYDLP99**	4	3	99	1
750	1000	2	2 x **NSYDLP76**	4 + 4	4 + 4	152	-
750	1000	2	2 x **NSYDLP57**	4 + 4	3 + 3	114	1 + 1
750	1250	2	**NSYDLP76** + **NSYDLP132**	4 + 4	4 + 4	208	-
750	1250	2	**NSYDLP57** + **NSYDLP99**	4 + 4	3 + 3	156	1 + 1
1000	500	1	**NSYDLP114**	6	6	114	-
1000	500	1	**NSYDLP95**	6	5	95	1
1000	750	1	**NSYDLP198**	6	6	198	-
1000	750	1	**NSYDLP165**	6	5	165	1
1000	1000	2	2 x **NSYDLP114**	6 + 6	6 + 6	228	-
1000	1000	2	2 x **NSYDLP95**	6 + 6	5 + 5	190	1 + 1
1000	1250	2	**NSYDLP114** + **NSYDLP198**	6 + 6	6 + 6	312	-
1000	1250	2	**NSYDLP95** + **NSYDLP165**	6 + 6	5 + 5	260	1 + 1
1250	500	1	**NSYDLP133**	7	7	133	-
1250	500	1	**NSYDLP114P**	7	6	114	1
1250	750	1	**NSYDLP231**	7	7	231	-
1250	750	1	**NSYDLP198P**	7	6	198	1
1250	1000	2	2 x **NSYDLP133**	7 + 7	7 + 7	266	-
1250	1000	2	2 x **NSYDLP114P**	7 + 7	6 + 6	228	1 + 1
1250	1250	2	**NSYDLP133** + **NSYDLP231**	7 + 7	7 + 7	364	-
1250	1250	2	**NSYDLP114P** + **NSYDLP198P**	7 + 7	6 + 6	312	1 + 1
1500	500	1	**NSYDLP171**	9	9	171	-
1500	500	1	**NSYDLP152**	9	8	152	1
1500	750	1	**NSYDLP297**	9	9	297	-
1500	750	1	**NSYDLP264**	9	8	264	1
1500	1000	2	2 x **NSYDLP171**	9 + 9	9 + 9	342	-
1500	1000	2	2 x **NSYDLP152**	9 + 9	8 + 8	304	-
1500	1250	2	**NSYDLP171** + **NSYDLP297**	9 + 9	9 + 9	468	1 + 1
1500	1250	2	**NSYDLP152** + **NSYDLP264**	9 + 9	8 + 8	416	1 + 1

Power distribution accessories
Modular distribution accessories

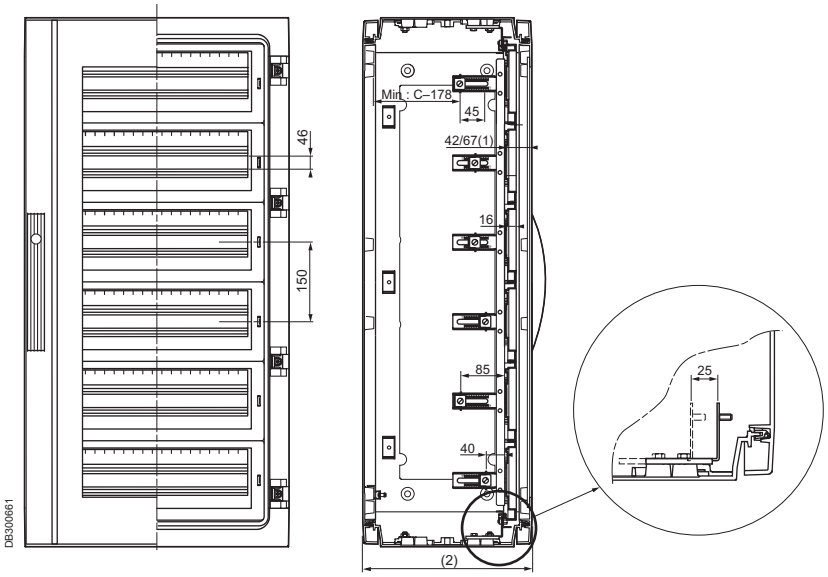
PB501389

Detail from front-panel mounting.

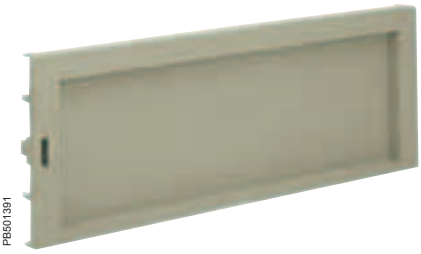
PB501390

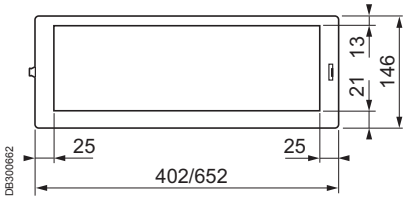
Detail from the circuit-marking system.

Dimensions



(1) Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the 2 dimensions are reduced by 5 mm.
(2) C = Depth of the enclosure.


PB501391

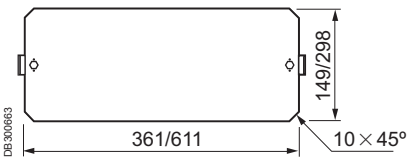


Plain cover plate

- Self-extinguishing insulating material, RAL 7032 grey, for non-modular switchgear protection.
- Nominal height: 150 mm.
- Order by multiples of 2 (2, 4, 6...).

For enclosure width (mm)	Dimensions (mm)		Reference
	Height	Width	
500	146	402	**NSYCTL500DLP**
750	146	652	**NSYCTL750DLP**

PB501392



Plain mounting plate

- Plate for fixing non-modular devices.
- Material: galvanised steel, 2 mm thick.
- Depth-adjustable fixing on the supports from 40 to 85 mm.
- Nominal height: 150 mm or 300 mm.
- Order by multiples of 2 (2, 4, 6...).

For enclosure width (mm)	Dimensions (mm)		Reference
	Height	Width	
500	149	361	**NSYPMP500DLP**
750	149	611	**NSYPMP750DLP**
500	298	361	**NSYPMP5002DLP**
750	298	611	**NSYPMP7502DLP**

19" accessories

19” chassis

- Very sturdy 19” metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**.
- These chassis are available in 2 versions: fixed and swing.
- These chassis can be used as partial mounting plates in enclosures with higher-than-nominal height.
- Incompatible with the internal doors and the step slides.

PB500184

Enclosure with 19” fixed chassis.

19” fixed chassis

- Fixed chassis made up of 2 uprights with fixings.
- For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure.
- Material: sheet steel, thickness 20 / 10 mm, RAL 7032 grey epoxy-polyester paint.
- Maximum load: 3 kg per U.

For enclosure (mm)		Number of U	Reference	
Height	Width		19” fixed chassis	Batch of 2 uprights
500	750	8	**NSYBRF8PLA**	-
750	750	12	**NSYBRF12PLA**	**NSYSPLA75**
1000	750	17	**NSYBRF17PLA**	**NSYSPLA100**
1250	750	21	**NSYBRF21PLA**	**NSYSPLA125**
1500	750	26	**NSYBRF26PLA**	**NSYSPLA150**

PB500185

Enclosure with 19” swing chassis.

19” swing chassis

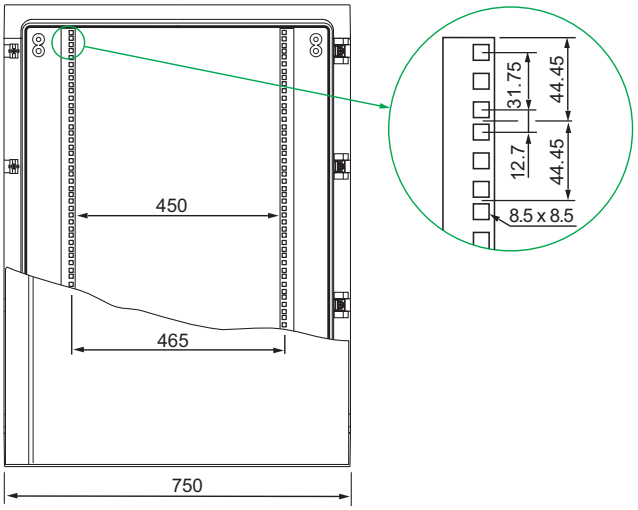
- Swing chassis opening to 120° with 5 mm double-bar key lock.
- For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure.
- Material: sheet steel, thickness 20 / 10 mm, RAL 7032 grey epoxy-polyester paint.
- Maximum load: 3 kg per U.

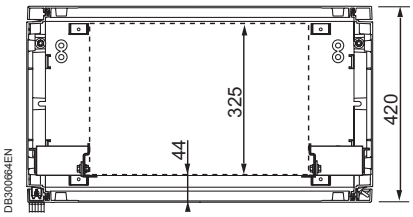
For enclosure (mm)		Number of U	Reference	
Height	Width		19” swing chassis	Batch of 2 uprights
500	750	7	**NSYBRP7PLA**	-
750	750	11	**NSYBRP11PLA**	**NSYSPLA75**
1000	750	16	**NSYBRP16PLA**	**NSYSPLA100**
1250	750	20	**NSYBRP20PLA**	**NSYSPLA125**
1500	750	25	**NSYBRP25PLA**	**NSYSPLA150**

19" accessories

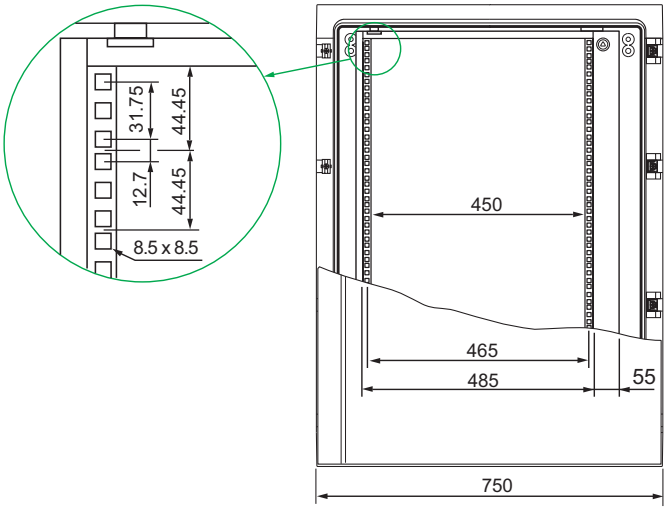
Dimensions

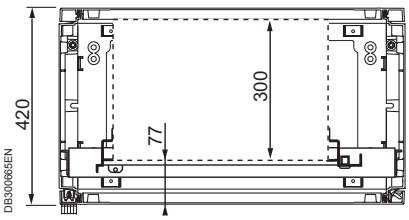
19” fixed chassis

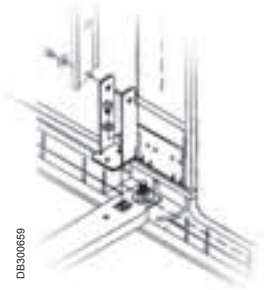




19” swing chassis







Intermediate support in the 2-door enclosures

- Accessory required for installing uprights, ref. **NSYSPLA●●●**, in the 2-door enclosures.

Description	Reference
Intermediate support	**NSYSBPLA**

Polyester DIN floor-standing enclosure

Safety
– Full insulation for class II units.
– No risk to the public.
– Lock with 3-point closure.

Application
Designed to accommodate busbars.

Service life
High resistance to corrosion in harsh environments, maintaining its mechanical and insulation properties.

Installation on semi-embedded plinth
Facilitates the entry and positioning of cables.

Customisation
– Horizontal or depthwise coupling.
– Rear door.

Smart
Removable cross rail.

Easy
– Bosses for fixing inserts on the rear, the door and the side walls.
– Removable hinges.

Smart
Removable cross rail.

Polyester DIN floor-standing enclosure
Introduction

PB500078

Floor-standing enclosures designed mainly to accommodate busbars and DIN-type three-pole LV fuse, for LV public distribution network.
The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.

Technical characteristics

- Floor-standing enclosures, made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded.
- Resistance to external mechanical impacts: IK 10 (20 joules).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Ventilated floor-standing enclosures with a degree of protection of IP 43, according to IEC 60529 (IP 54 with sealing kit, see page **317**).
- Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back.
- Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°.
- Doors equipped with impressions allowing the integration of inserts for M6 screws.
- Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page **317**).
- Fixing points at the rear of the enclosure with:
  – M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar.
  – M6 inserts: for installing a mounting plate.
- 2-door floor-standing enclosure with central upright:
  – Fixed to the enclosure and removable: one lock on each door.
  – Fixed to the left door: a single lock on the right door.
- M8 boss for installation on the lateral surfaces, inserts ref. **NSYTEX8** not supplied.
- M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. **NSYTEX6** not supplied.

PB501397

Enclosure ref. **NSYPLD8122** with the central upright fixed to the left door.

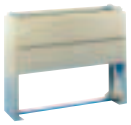
PB501398

Enclosure ref. **NSYPLD8122C** with central upright, 2 doors and 2 locks.

Selection guide for floor-standing enclosures and accessories

PB501399

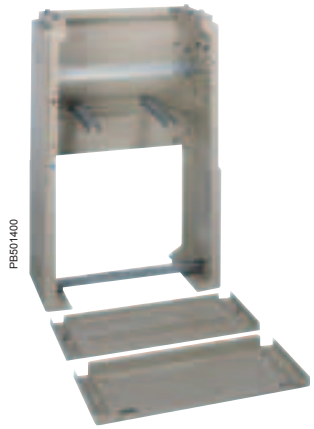
PB501375


PB501279

External dimensions (mm)			Floor-standing enclosures	Size DIN	No. of doors	No. of locks	Insulating mounting plates	Plinths	Number of fittings*
Height	Width (B)	Depth					Page 318	Page 315	
850	465	320	**NSYPLD8500**	00	1	1	**NSYAPLD85**	**NSYZD5300**	3 + N
850	590	320	**NSYPLD860**	0	1	1	**NSYAPLD86**	**NSYZD630**	4 + N
850	785	320	**NSYPLD881**	1	1	1	**NSYAPLD88**	**NSYZD831**	6 + N
850	1115	320	**NSYPLD8122**	2	2	1	**NSYAPLD812**	**NSYZD1232**	9 + N
850	1115	320	**NSYPLD8122C**	2	2	2	**NSYAPLD812**	**NSYZD1232**	9 + N

*Number of fuse-holder blocks + N = nut for direct connection fitting (e.g. 3 + N).

Plinth for DIN floor-standing enclosure
Introduction


PB501400

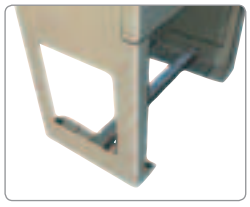
Plinth height 900 mm

- Polyester plinth, reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Easy machining.
- Embeddable plinth ready for direct fixing of DIN floor-standing enclosures.
- Retractable top front panel, providing easy access to the inside of the enclosure.
- On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware.
- Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm).
- Internal U- and L-shaped metal uprights, adjustable, for fixing cables.
- A knock-out zone is provided at the bottom of the lateral uprights for cable entry.

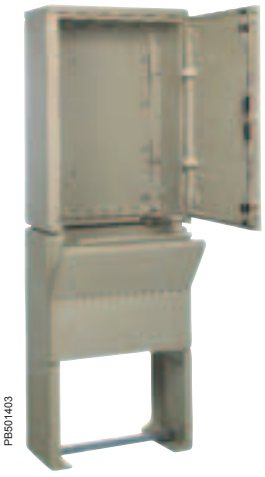
For floor-standing enclosure Width (mm)	References
465	**NSYZD5300**
590	**NSYZD630**
785	**NSYZD831**
1115	**NSYZD1232**

PB501401

Knock-out Pg 36 auxiliary outlet.


PB501402

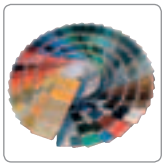
Lateral knock-out is removed.


PB501403

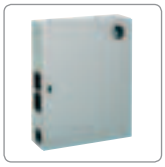
Removable top front panel (not hinged).

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688

Paints


PB500359

Holes & Cutouts

PB501690

Mounting

PB501691

Construction changes

PB501692

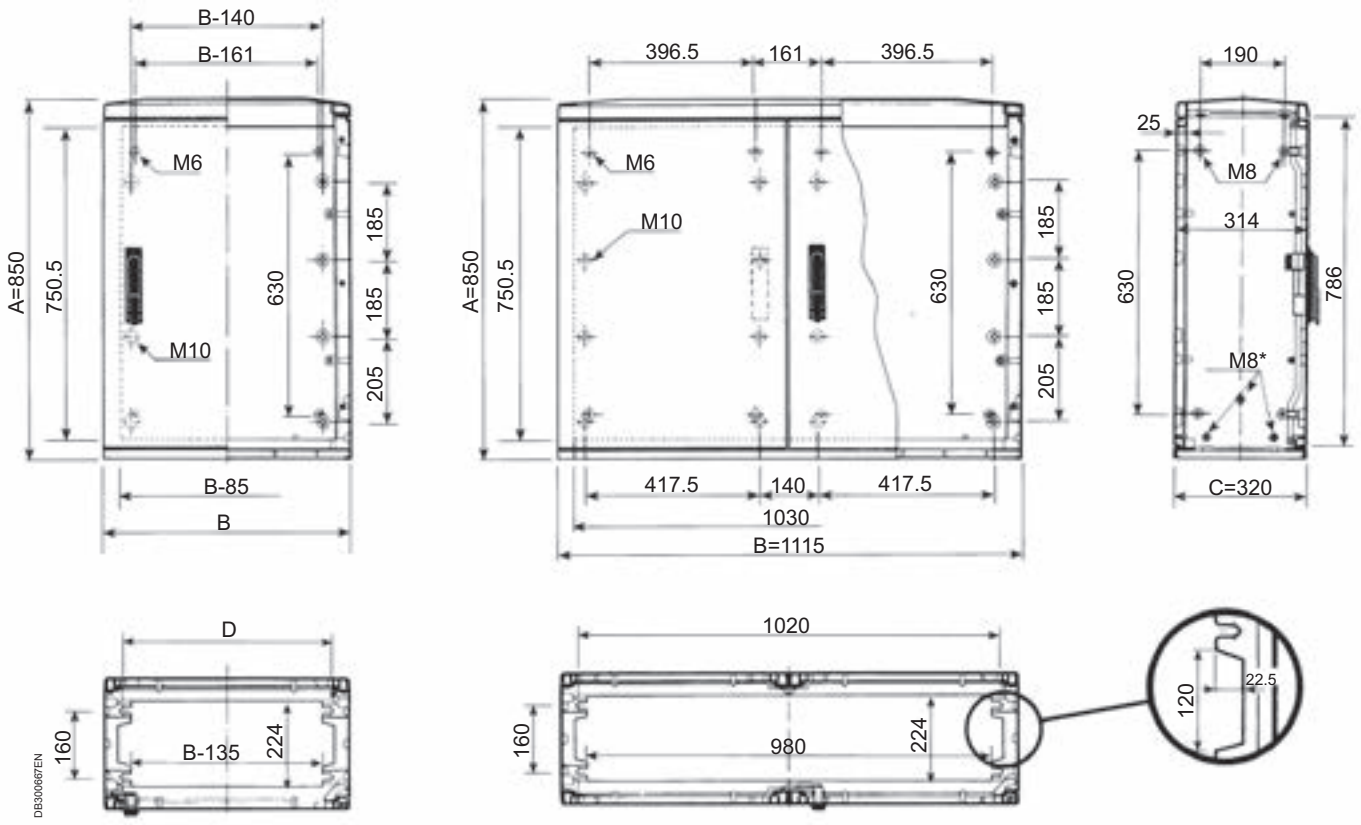
Accessories

Polyester DIN floor-standing enclosure
Dimensions

B (mm)	D* (mm)	References	
		Floor-standing enclosures	Plinths
465	360	**NSYPLD8500**	**NSYZD5300**
590	495	**NSYPLD860**	**NSYZD630**
785	690	**NSYPLD881**	**NSYZD831**
1115	1020	**NSYPLD8122**	**NSYZD1232**

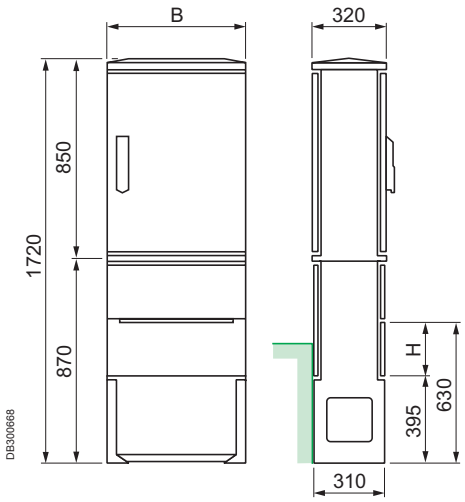
*Distance between the points for fixing the enclosure to the plinth.

Floor-standing enclosures



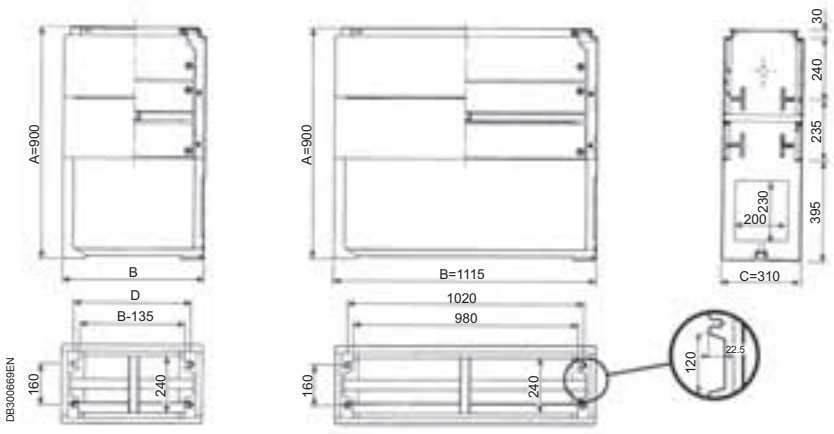
*Housing for M8 inserts, ref. **NSYTEPLDM8** (to be ordered in multiples of 25).

Floor-standing enclosure plus plinth



The H dimension relates to the finished floor height area.

Plinths



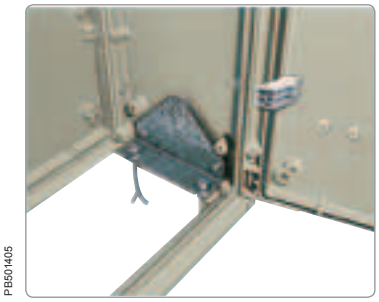
Polyester DIN floor-standing enclosure
Composition accessories

PB501404

IP 54 sealing kit

- Placed directly on the door and on the rear of the enclosure.
- Provides a degree of protection of IP 54.
- Seal made from black synthetic rubber.

For floor-standing enclosure Width (mm)	References
465	**NSYJED8500**
590	**NSYJED860**
785	**NSYJED881**
1115	**NSYJED8122**


PB501405

Floor-standing supports

- Set of 2 metal supports for fixing the enclosure directly to the floor.

Name	Reference
Floor-standing support	**NSYSPLD**

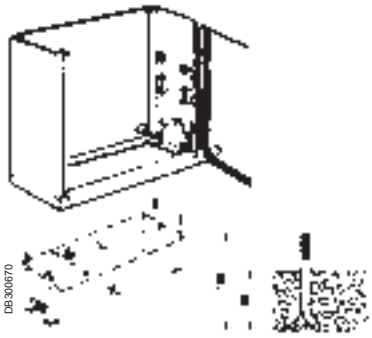

DB300670

Table of fixing and opening dimensions			
K	L	M	For floor-standing enclosures
360	320	224	**NSYPLD8500**
495	455	224	**NSYPLD860**
690	650	224	**NSYPLD881**
1020	980	224	**NSYPLD8122** and **NSYPLD8122C**

Locks and inserts

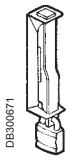
Locks

- Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.
- Other optional shape inserts or barrels and keys.

PB501406

Inserts for optional change

Name	References
5-mm double bar	**NSYTDB5ME**
6-mm male square	**NSYTC6ME**
7-mm male square	**NSYTC7ME**
8-mm male square	**NSYTC8ME**
6.5-mm male triangle	**NSYTT6ME**
8-mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced semi-cylindrical barrel and key	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**


DB300671

Padlocking accessory

- Padlocking system, for Ø 9 mm padlock, preventing access to the handle.

Name	Reference
Padlocking accessory	**NSYBCME**

Polyester DIN floor-standing enclosure
Mounting accessories

PB501407

PB501375

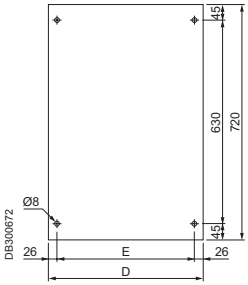
Insulating mounting plate

- It is placed directly on the rear of the enclosure.
- Insulating material, RAL 9005 black bakelite, thickness 5 mm.

For floor-standing enclosure Width (mm)	D (mm)	E (mm)	Weight (kg)	References
465	356	304	2	**NSYAPLD85**
590	481	429	2.7	**NSYAPLD86**
785	676	624	3.8	**NSYAPLD88**
1115	448.5	396.5	5	**NSYAPLD812***

*The reference includes 2 mounting plates with the dimensions of the table.

Dimensions



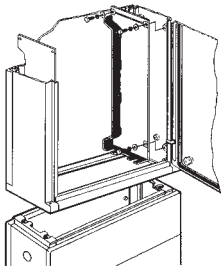
DB300672

PB501408

Lateral uprights for busbars

- Made from RAL 7032 grey polyester.
- They are fixed to the plinth, ref. **NSYZD●●●**.
- They are designed to accommodate busbars, fixed to the built-in inserts.
- This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer.
- The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth.
- The fixings supplied allow the attachement of the 2 uprights to the enclosure.

Name	Reference
Lateral uprights	**NSYBPLDN**


DB300673

LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth

PB501409
1

PB501410
2

PB501411
3

PB501412
4

See also the accessories

Inserts page **305**

Document pocket page **469**

Lighting page **459**

Installation examples

Configured Specific

Machined, coupled and equipped Thalassa PLS boxes

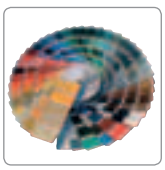
Thalassa PLM wall-mounting enclosure machined in the factory to accommodate cable glands

Thalassa PLA floor-standing enclosure with accessories installed in the factory

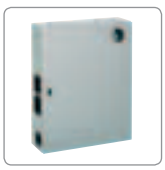
Coupled Thalassa PLA floor-standing enclosures with accessories installed ain the factory

Customised service: All standard dimensions from our catalogue on request and more...

Specific



Paints



Holes & Cutouts

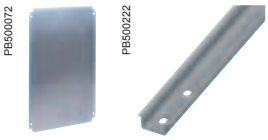
Mounting

Construction changes

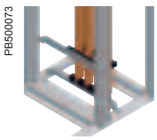
Accessories

Accessories

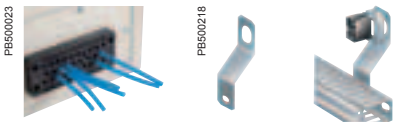
Accessories
Contents



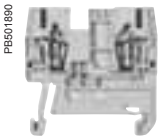
Mounting 323



Power distribution 381

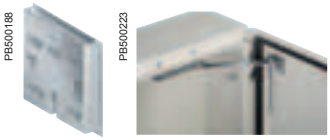


Cable management 419

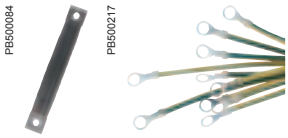


Terminal blocks 451

Lighting and power socket 459



Door accessories 467

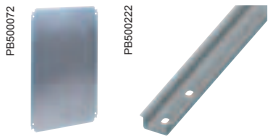


Other accessories 477

Mounting accessories

PB501840

Mounting accessories
Contents



Installation accessories	324
Cross rails & profiles	352
Equipment support accessories	361
19” Chassis	364
Rails	365
Nuts and screws for rails	377

Mounting
Installation accessories

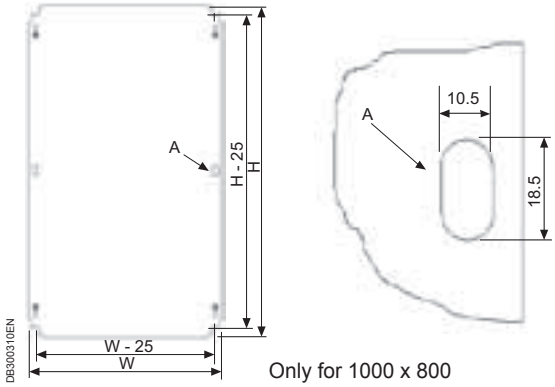
Metal Silkscreened

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		

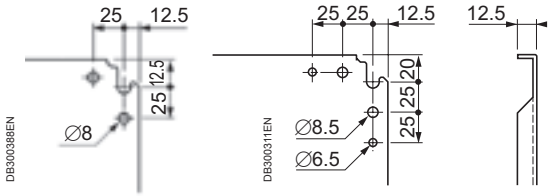
Plain and silkscreened mounting plates

- Galvanised-steel mounting plates.
- Galvanised-steel mounting plates, silkscreened for easier distribution of the products to be installed.
- Centimetric grid pattern.

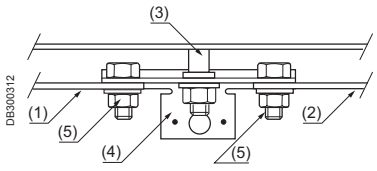
Supply: 1 mounting plate and fixing elements.



Only for 1000 x 800



From the size of 1000 x 1000



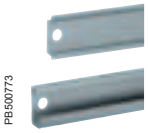
(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) M8 x 20 mm screw

For wall-mounting enclosure (mm)		H (mm)	W (mm)	Surface (dm²)	Maximum load (kg)	Weight (kg)	Reference	
Height	Width						Metal	Silkscreened
200	200	150	150	2.3	40	0.4	**NSYMM22**	-
200	300	150	250	3.7	40	0.6	**NSYMM23**	-
250	200	200	150	3	40	0.5	**NSYMM2520**	-
250	400	200	350	7	60	0.8	**NSYMM2540**	-
250	500	200	450	9	60	1.1	**NSYMM2550**	-
300	200	250	150	3.7	60	0.6	**NSYMM32**	-
300	250	250	200	5	60	0.7	**NSYMM3025***	-
300	300	250	250	6.3	60	0.9	**NSYMM33**	-
300	400	250	350	8.8	60	1.25	**NSYMM43***	**NSYMS43***
300	450	250	400	10	60	1.4	**NSYMM3045**	-
300	600	250	550	13.8	60	2	**NSYMM36**	-
400	400	350	350	12.3	60	1.7	**NSYMM44**	**NSYMS44**
400	600	350	550	12.3	90	2.7	**NSYMM64***	**NSYMS64***
400	800	350	750	26.3	90	3.8	**NSYMM48**	-
500	300	450	250	11.3	60	1.65	**NSYMM53***	**NSYMS53***
500	400	450	350	15.8	90	2.2	**NSYMM54**	**NSYMS54**
500	500	450	450	20.3	90	2.95	**NSYMM55***	**NSYMS55***
600	400	550	350	19.3	90	2.7	**NSYMM64**	**NSYMS64**
600	500	550	450	24.8	90	3.6	**NSYMM65**	-
600	600	550	550	30.3	135	4.4	**NSYMM66**	**NSYMS66**
700	500	650	450	29.3	135	4.25	**NSYMM75**	**NSYMS75**
700	600	650	550	35.8	135	5.2	**NSYMM76**	-
800	600	750	550	41.3	135	8.1	**NSYMM86***	**NSYMS86***
800	800	750	750	56.3	150	11	**NSYMM88**	-
1000	600	950	550	52.3	150	10.2	**NSYMM106**	-
1000	800	950	750	71.3	150	13.9	**NSYMM108***	-
1000	1000	950	950	90.3	180	18.1	**NSYMM1010**	-
1200	600	1150	550	63.3	180	12.8	**NSYMM126**	-
1200	800	1150	750	86.3	180	17.35	**NSYMM128***	-
1200	1000	1150	950	109.3	180	21.9	**NSYMM1210***	-
1200	1200	1150	1150	132.3	180	26.45	**NSYMM1212**	-
1400	1000	1350	950	128.3	180	25.7	**NSYMM1410**	-

* Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.
Example:
Plate ref. **NSYMM64** can be used for the following enclosures:
- H 600 x W 400 mm.
- H 400 x W 600 mm.
- In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR** (more information on page **330**).

See also the accessories

Step slides page **330**

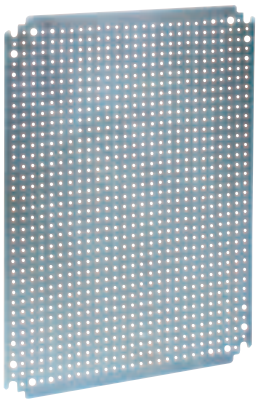


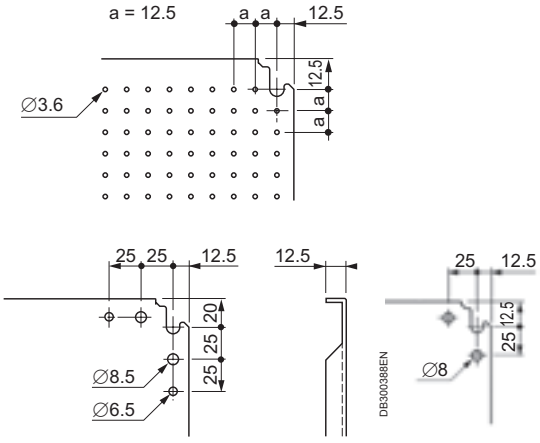
Rails and uprights page **365**

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		


PB500101



From the size of 1000 x 1000

Microperforated mounting plate

- Galvanised-steel microperforated mounting plates.
- They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws.
- Holes with Ø 3.6 mm in steps of 12.5 mm.

Supply: 1 mounting plate and fixing elements.

For enclosures Height (mm)	For enclosures Width (mm)	Height (mm)	Width (mm)	Surface (dm^2)	Maximum load (kg)	Weight (kg)	Reference
300	200	250	150	3.8	60	0.55	**NSYMF32**
300	300	250	250	6.3	60	0.95	**NSYMF33**
300	400	250	350	8.8	60	1.35	**NSYMF43***
400	400	350	350	12.3	60	1.85	**NSYMF44**
500	300	450	250	11.3	60	1.70	**NSYMF53**
500	400	450	350	15.8	90	2.40	**NSYMF54**
500	500	450	450	20.3	90	3.05	**NSYMF55**
600	400	550	350	19.3	90	2.95	**NSYMF64***
600	500	550	450	24.8	90	3.60	**NSYMF65**
600	600	550	550	30.3	135	4.55	**NSYMF66**
700	500	550	450	29.3	135	4.40	**NSYMF75**
800	600	750	550	41.3	135	7.70	**NSYMF86***
800	800	750	750	56.3	150	10.55	**NSYMF88**
1000	600	950	550	52.3	150	9.75	**NSYMF106**
1000	800	950	750	71.3	150	13.30	**NSYMF108***
1000	1000	965	965	93.1	180	17.10	**NSYMF1010**
1200	600	1165	565	65.8	180	12.05	**NSYMF126**
1200	800	1165	765	89.1	180	16.35	**NSYMF128**
1200	1000	1165	965	112.4	180	20.65	**NSYMF1210***

* Reversible mounting plate; it can be installed in enclosures with inverted dimensions.
Example:
Plate ref. **NSYMF64** can be used for the following enclosures:
- H 400 x W 600 mm.
- H 600 x W 400 mm.

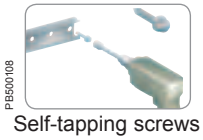
PB501846

Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.

Supply: 4 units

Reference
AZ1CA04

See also the accessories

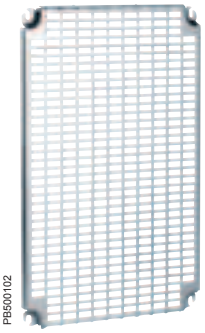

PB500108
Self-tapping screws ref. **NSYS16M5HS** page **377**

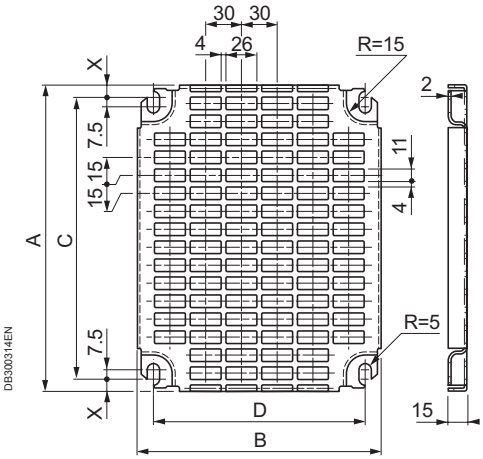
PB500111
Step slides page **330**

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		


PB500102



DB300314EN

Telequick mounting plate

- Zinc-coated-steel Telequick mounting plates. They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear.
- 11 x 26 mm slots.
- Switchgear fixing by clip-on nuts.

Supply: 1 mounting plate and fixing elements.

For enclosures (mm)		Dimensions (mm)					Surface (dm^2)	Weight (kg)	No. of perforations in		Reference
Height	Width	A	B	C	D	X			Height	Width	
300	200	255	153.7	231.3	125	11.85	3.3	0.30	16	5	**NSYMR32**
300	250	253	228	231.3	175	10.85	5.1	0.40	16	8	**NSYMR3025**
300	300	255	251	231.3	225	11.85	5.8	0.50	16	9	**NSYMR33**
300	400	255	351	235	325	10	8.3	0.75	18	11	**NSYMR34**
400	300	348.7	251	325	225	11.85	8.1	0.70	22	9	**NSYMR43**
400	400	345	351	325	325	10	11.5	1	24	11	**NSYMR44**
400	600	345	551	325	525	10	18.4	1.55	24	19	**NSYMR46**
500	300	453.7	251	430	225	11.85	10.7	0.85	29	9	**NSYMR53**
500	400	450	351	430	325	10	15.2	1.30	31	11	**NSYMR54**
500	500	450	451	430	425	10	19.7	1.60	31	14	**NSYMR55**
600	400	555	351	530	325	12.5	18.8	1.50	38	11	**NSYMR64**
600	500	555	451	535	425	10	24.4	2	38	14	**NSYMR65**
600	600	555	551	535	625	10	29.9	2.50	38	17	**NSYMR66**
600	800	551	750	531	724	10	40.7	3.10	36	24	**NSYMR68**
700	500	645	451	625	425	10	28.4	2.35	44	14	**NSYMR75**
700	600	645	551	625	525	10	35.07	2.9	44	17	**NSYMR76**
800	600	750	551	730	525	10	40.7	3.20	51	17	**NSYMR86**
800	800	750	751	730	725	10	55.7	3.95	51	24	**NSYMR88**
800	1000	751	951	731	925	10	70.8	5.30	49	31	**NSYMR810**
1000	600	945	551	925	525	10	51.4	4.05	64	17	**NSYMR106**
1000	800	945	751	925	725	10	70.3	5	64	24	**NSYMR108**
1000	1000	945	951	925	925	10	89.2	6.50	62	31	**NSYMR1010**
1000	1200	951	1151	931	1125	10	108.8	7.45	62	37	**NSYMR1012**
1200	600	1145	551	1125	525	10	62.4	5.70	75	17	**NSYMR126**
1200	800	1145	751	1125	725	10	85.3	6.40	75	24	**NSYMR128**
1200	1000	1145	951	1125	925	10	108.2	7.80	75	31	**NSYMR1210**
1400	1000	1345	951	1325	925	10	127.3	9.10	88	31	**NSYMR1410**

To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**.
See details on page **330**.
To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.

PB500107

Clip-on nuts

- Clip-on nuts for Telequick mounting plate.
- Used to easily fix devises in the Telequick mounting plate with the possibility of changing the lay-out as much as needed.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).

Model	Reference
M3	**AF1EA3**
M4	**AF1EA4**
M5	**AF1EA5**
M6	**AF1EA6**

See also the accessories

PB500774

Lyre-shaped clamp for plate
ref. **AK2LA39**
page **449**

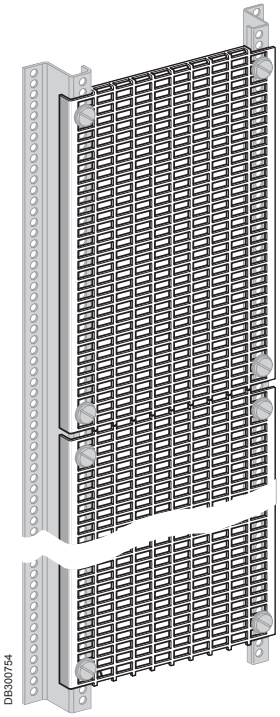
PB500775

Plastic cable support
ref. **NSYSPC**
page **448**

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		



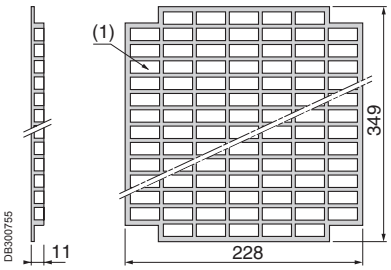
Joinable Telequick mounting plate

- 2 mm zinc-coated-steel Telequick mounting plates. These mounting plates are suitable for mounting vertically multiple plates.
- 11 x 26 mm slots.
- Switchgear fixing by clip-on nuts.

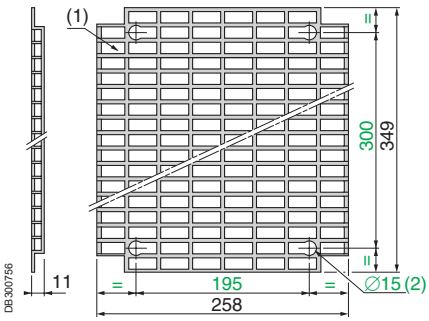
Supply: 1 mounting plate and fixing elements.

Enclosure		Mounting plate dimensions		Surface (dm^2)	Weight (g)	Reference
Width (mm)	Height (mm)	Width (mm)	Height (mm)			
150	300	228	349	7.9	620	**AM1PA3015**
195	300	258	349	9.0	700	**AM1PA3020**
300	405	334	465	15.0	1220	**AM1PA4030**
400	600	434	660	28.5	1960	**AM1PA6040**
500	300	534	360	19.1	1360	**AM1PA3050**
	600	534	660	35.1	2410	**AM1PA6050**
	705	534	765	40.0	2780	**AM1PA7050**
	900	534	960	51.1	3470	**AM1PA9050**
600	600	634	660	41.7	2870	**AM1PA6060**
	795	634	855	54.0	3692	**AM1PA8060**
	900	634	960	60.7	4130	**AM1PA9060**
700	60	734	120	8.7	660	**AM1PA0670**
	120	734	180	13.1	940	**AM1PA1270**
	300	734	360	26.3	1760	**AM1PA3070**
	600	734	660	48.3	3130	**AM1PA6070**
	900	734	960	70.3	4490	**AM1PA9070**

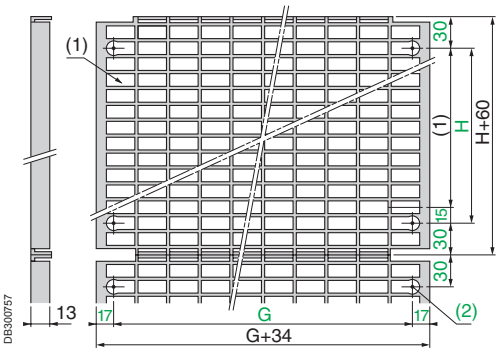
AM1-PA3015



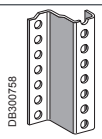
AM1-PA3020



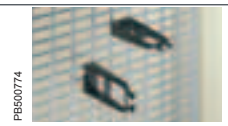
All others



See also the accessories



Per-drilled uprights
page **332**

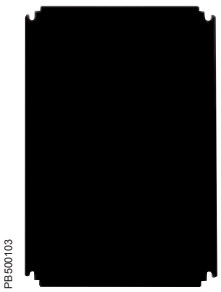


Lyre-shaped clamp for plate
ref. **NSYGCR**
page **449**

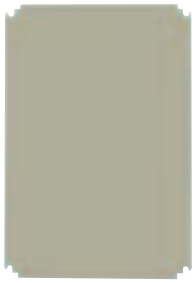
Plastic cable support
ref. **NSYSPC**
page **448**

Mounting
Installation accessories

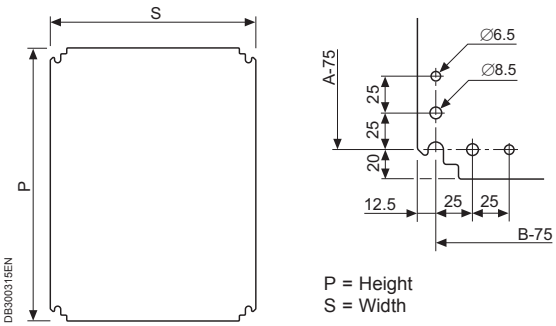
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		



Bakelite



Polyester



P = Height
S = Width

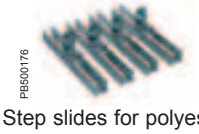
Bakelite and polyester mounting plate

- Made in black bakelite RAL-9005 or from polyester reinforced with fibreglass, RAL-7035 grey colour.
- They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
- Double-door enclosures offer the option of installing one full plate or two individual plates. See guide below.

Supply: 1 mounting plate and fixing elements.

For enclosure (mm)		Dimensions (mm)		Thickness (mm)		Weight (kg)		Reference	
Height (A)	Width (B)	Height (P)	Width (S)	Bakelite	Polyester	Bakelite	Polyester	Bakelite	Polyester
300	200	265	150	4	4	0.2	0.3	**NSYMB32**	**NSYMPP32**
300	250	265	200	4	4	0.2	0.4	**NSYMB3025**	**NSYMPP3025**
300	300	265	250	4		0.3		**NSYMB33**	-
400	300	325	250	4	4	0.5	0.7	**NSYMB43**	**NSYMPP43**
500	400	465	350	4	4	0.9	1.2	**NSYMB54**	**NSYMPP54**
600	400	565	350	4	4	1.1	1.4	**NSYMB64**	**NSYMPP64**
600	500	565	450	4		1.4		**NSYMB65**	-
700	500	665	450	4	4	1.7	2.1	**NSYMB75**	**NSYMPP75**
800	600	765	550	4	5	2.3	3.8	**NSYMB86**	**NSYMPP86**
1000	600	965	550	5		4.2		**NSYMB106**	-
1000	800	965	750	5	5	5.7	6.5	**NSYMB108**	**NSYMPP108**
1200	1000	1150	950	5		8.3		**NSYMB1210**	-

See also the accessories

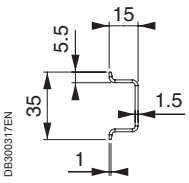


Step slides for polyester enclosures pages **271** and **303**

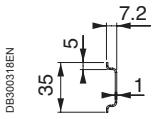
Step slides page **330**

Mounting
Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		



Type A



Type B

DIN-rail chassis

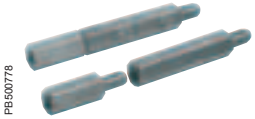
Components supplied with a DIN-rail chassis:
- Aluminium uprights.
- DIN rails (symmetric section A or B, according to the reference).
- Screws, washers and nuts need to mount the DIN rails to the uprights.
- Batch of 4 adapters, ref. NSYAMCSF, needed to fix the uprights to the enclosure.

Composition: 1 DIN-rail chassis.

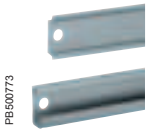
For enclosure		Type of rails	Number of rails	Reference
Height	Width			
300	300	B	4	**NSYMD33**
400	300	B	4	**NSYMD43**
500	400	B	4	**NSYMD54**
600	400	B	6	**NSYMD64**
600	600	A	6	**NSYMD66**
700	500	B	6	**NSYMD75**
800	600	A	6	**NSYMD86**
1000	800	A	6	**NSYMD108**
1200	800	A	7	**NSYMD128**

See also the accessories

Slides page **331**



Stand-offs page **376**

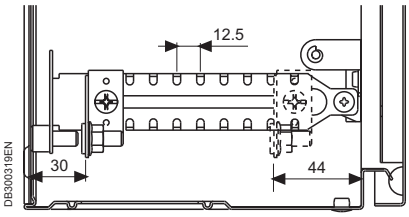


Rails page **365**

Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

PB500782



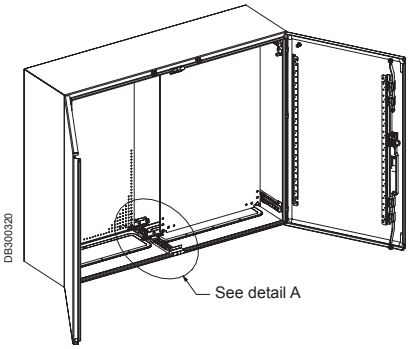
DB300319EN

Step slides for mounting plate

Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.

Supply: 4 step slides.

For enclosure depth (mm)	Reference
200	**NSYSDCR200**
250	**NSYSDCR250**
300	**NSYSDCR300**
400	**NSYSDCR400**



DB300320

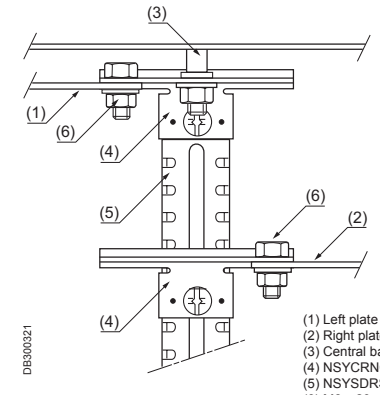
Step slides for 2 mounting plates in one enclosure

In 1000 and 1200 mm wall-mounting enclosures, it is possible to install 2 mounting plates side by side, using the additional central step slides.

Supply: 2 step slides.

For enclosure depth (mm)	Reference
300	**NSYSDRSDCR300***
400	**NSYSDRSDCR400***

*Not applicable for stainless steel enclosures.



DB300321

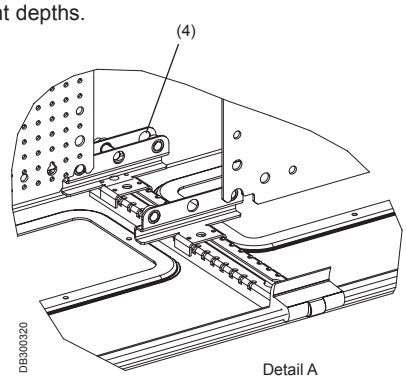
(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) NSYSDRSDCR slide bracket
(6) M8 x 20 mm screw

Slide bracket for 2 mounting plates at different depths

Additional slide bracket to be installed on the central step slides in order to mount 2 mounting plates, side by side, in different depths.

Supply: 2 slide brackets.

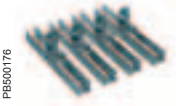
Set of 2 slide brackets
NSYCRNGSDR



DB300320

Detail A

See also the accessories


PB500176

Step slides for polyester enclosures
pages **271** and **303**

Mounting
Installation accessories

Telequick System

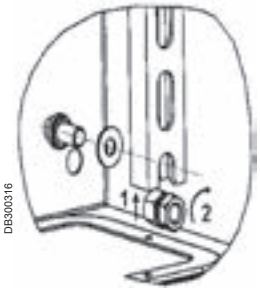
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓	✓	

PB500105

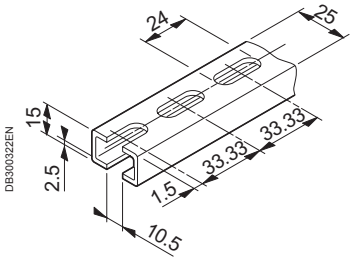
Aluminium vertical rails

- Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).
- Material: aluminium (length: 1200 mm, in steel).

Height	Material	Reference	Composition
300	Aluminium	**NSYMDVR3**	10
400	Aluminium	**NSYMDVR4**	10
500	Aluminium	**NSYMDVR5**	10
600	Aluminium	**NSYMDVR6**	10
700	Aluminium	**NSYMDVR7**	10
800	Aluminium	**NSYMDVR8**	10
1000	Aluminium	**NSYMDVR10**	10
1200	Steel	**NSYMDVR12**	2
Length: 3 m	Aluminium	**NSYMDVR3M**	10


DB300316

Ref. **NSYAMCSF**



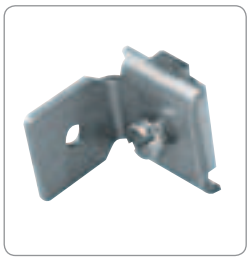
DB300322EN

Sliding Nuts

Sliding nuts to be used on aluminum vertical rails.

Type	Supply (units)	Reference
M4	100	**NSYNM4**
M5	100	**NSYNM5**
M6	100	**NSYNM6**

PB500777


PB500780

Slides and brackets

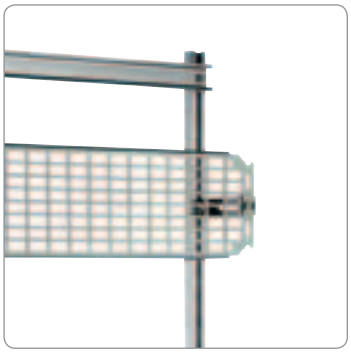
They allow the depth of the plates and rails to be adjusted.
- Length of 90 mm, with bracket for enclosures with depths of 150 and 200 mm.
- Length of 130 mm, with bracket for enclosures with depths of 250 and 300 mm.
- Bracket for slides (customised mounting plate).

Composition: 10 units.

References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

Description	Reference
90-mm slide	**NSYSB90**
130-mm slide	**NSYSB130**
Bracket	**NSYFB**

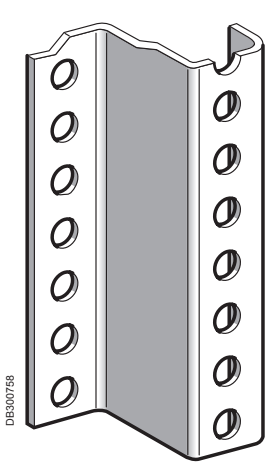
PB500781

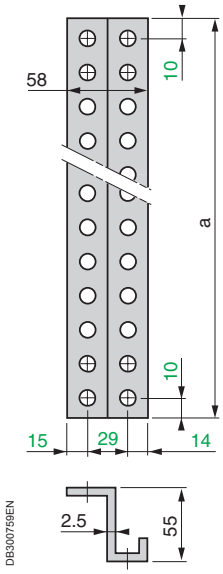

PB500781

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		



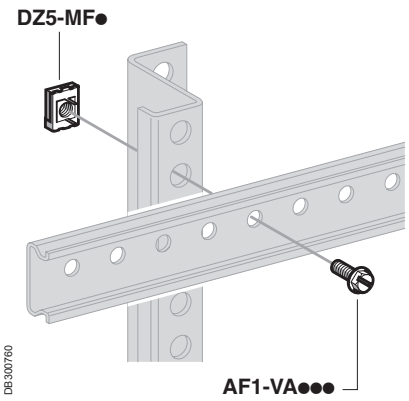


Pre-driled uprights

2 mm zinc-coated pre-drilled uprights. Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.

Height (mm) (a)	Weight (g)	Reference
1020	2330	**DZ6MZ121**
1320	2920	**DZ6MZ151**
1620	3375	**DZ6MZ181**
1920	4000	**DZ6MZ211**

Supply: 4 units.



Notched clamp nuts

Notched clamp nut specially designed for pre-drilled uprights.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).

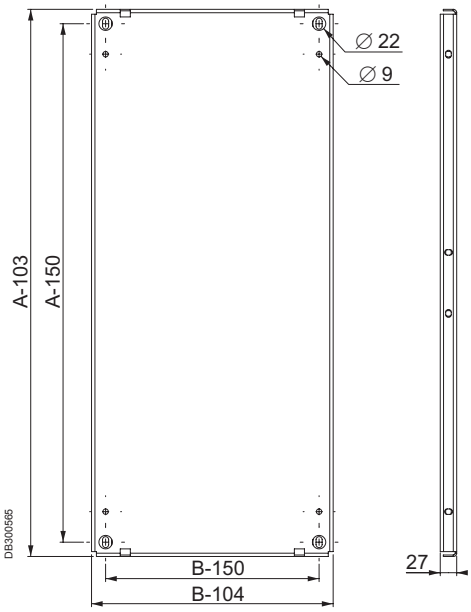
Type	Weight (g)	Reference
M6	7.0	**DZ5MF6**
M8	8.0	**DZ5MF8**

See also the accessories

Screws page **377**

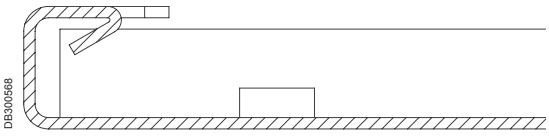
Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					



> Advantage:

The Spacial.pro tool helps determine the optimum dimensions of the mounting plate.



> Advantage:

The triple fold of the vertical edges of the mounting plate contributes to increasing the latter's rigidity and increases handling safety by preventing finger cuts.

Mounting plate

- Plate provided with reinforcement flange around the entire perimeter. The vertical edges are provided with a triple fold, to prevent finger cuts.
- Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.
- Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface.
- Material: galvanised steel.
- Maximum load: 600 kg in the back of the enclosure and 500 kg in the intermediate position.
- Installation options:

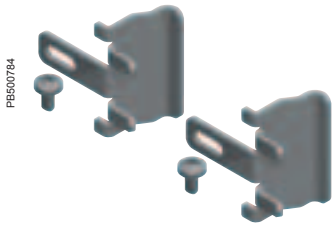
– At the sides of the enclosure with the orthogonal brackets (see page **336**).
– Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page **339**).

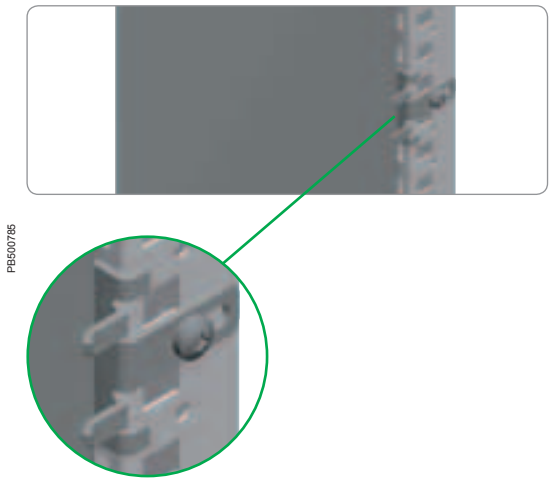
- In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page **338**).

Supply: one mounting plate and sliding shoes.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
1200	600	**NSYMP126**
	800	**NSYMP128**
	1000	**NSYMP1210**
	1200	**NSYMP1212**
1400	600	**NSYMP146**
	800	**NSYMP148**
	1000	**NSYMP1410**
	1200	**NSYMP1412**
1600	600	**NSYMP166**
	800	**NSYMP168**
	1000	**NSYMP1610**
	1200	**NSYMP1612**
1800	600	**NSYMP186**
	800	**NSYMP188**
	1000	**NSYMP1810**
	1200	**NSYMP1812**
	1600	**NSYMP1816**
2000	600	**NSYMP206**
	800	**NSYMP208**
	1000	**NSYMP2010**
	1200	**NSYMP2012**
	1600	**NSYMP2016**
2200	600	**NSYMP226**
	800	**NSYMP228**
	1000	**NSYMP2210**
	1200	**NSYMP2212**

Mounting
Installation accessories





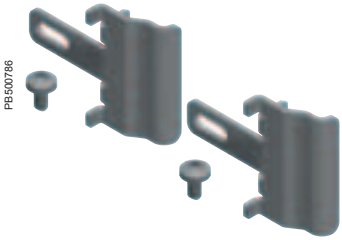
Intermediate fixing of the mounting plate, located in the back of the enclosure

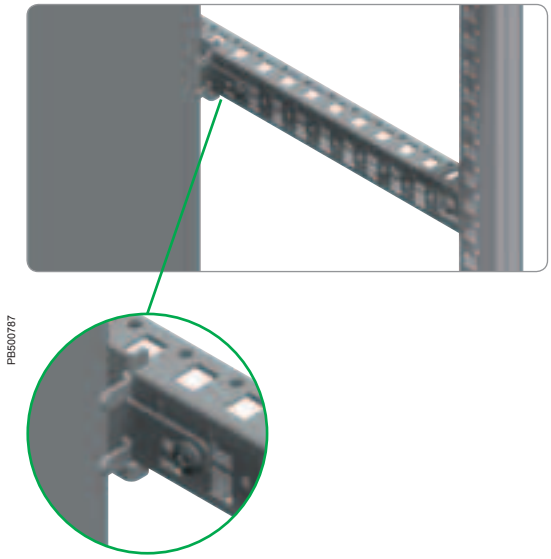
- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are fixed to the structure when the plate is already located in the back of the enclosure.
- **Spacial SM:** fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page **357**.
- Material: zinc-coated steel.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSMPFB





Intermediate fixing of the mounting plate, in advanced position

- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied) (see page **357**).
- Material: zinc-coated steel.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSMPFA

Mounting
Installation accessories

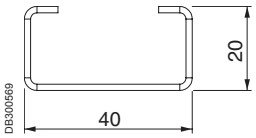
PB500788

Reinforcement for mounting plate

- Reinforcement kit for transversal mounting plate.
- Provides extra rigidity to the mounting plates and absorbs vibrations.
- Can be used as a support for fixing very heavy elements.
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

Supply: two profiles, four supports for fixing to the mounting plate and fixing elements.

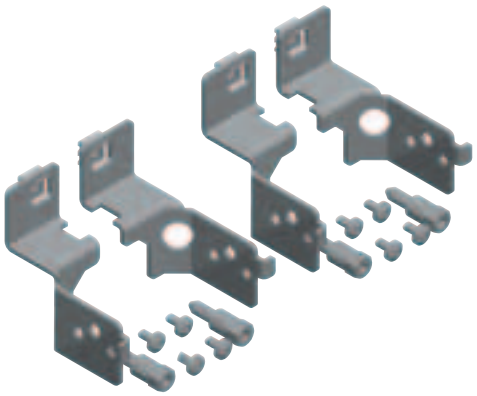
Nominal dimensions (mm)	Reference
Width	
800	**NSYMPRK8**
1000	**NSYMPRK10**
1200	**NSYMPRK12**
1600	**NSYMPRK16**



DB300569

Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					



PB500789

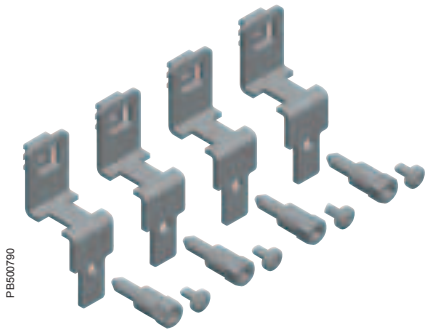
Mounting plate fixing brackets

- Mounting plate fixing brackets for direct mounting on the structure of the enclosure.
- Adjustable depth with a pitch of 25 mm.
- Maximum load (4 brackets): 600 kg.
- Material: zinc-coated steel.

Supply: four brackets and fixing elements.

Reference	For enclosure
NSYSFPB	Spacial SF
NSYSMPB	Spacial SM, Spacial SFX, Spacial SMX

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					



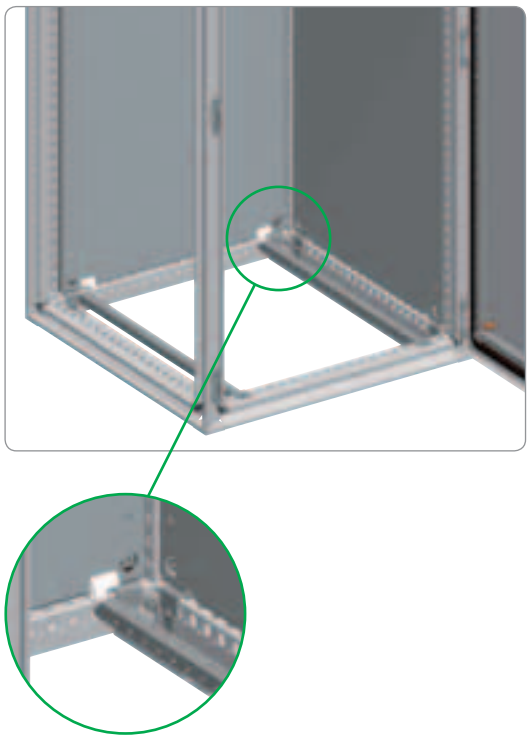
PB500790

Orthogonal brackets

- Orthogonal brackets designed for the installation of mounting plates on the sides of the enclosure.
- In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.
- Maximum load (4 brackets): 600 kg.
- Material: zinc-coated steel.
- Spacial SFX: in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.

Supply: four brackets and fixing elements.

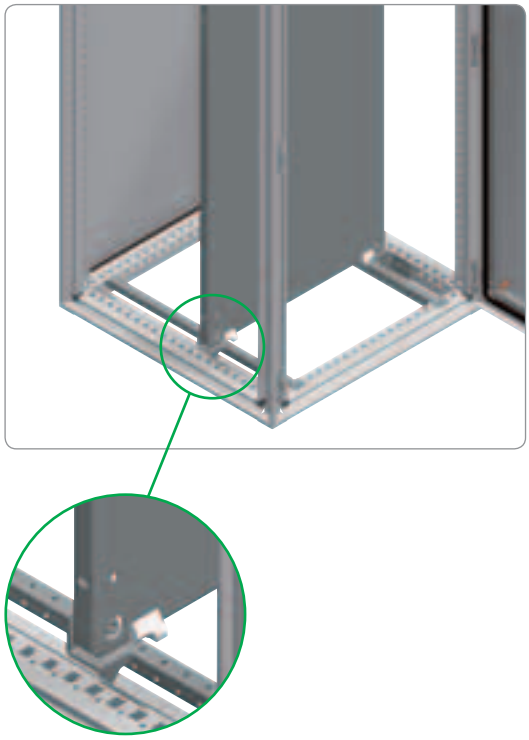
Reference
NSYSMPSB



PB500791

Mounting
Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
				✓									



PB500792

Mounting plate sliding rails

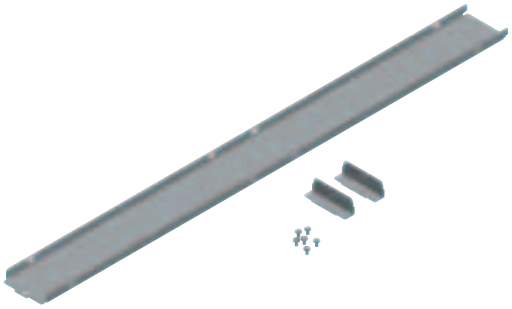
- Rails which the mounting plate slides along when inserted in the enclosure.
- Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.
- Material: zinc-coated steel.

Supply: two rails and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
400	**NSYSMPS4**
500	**NSYSMPS5**
600	**NSYSMPS6**
800	**NSYSMPS8**

Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

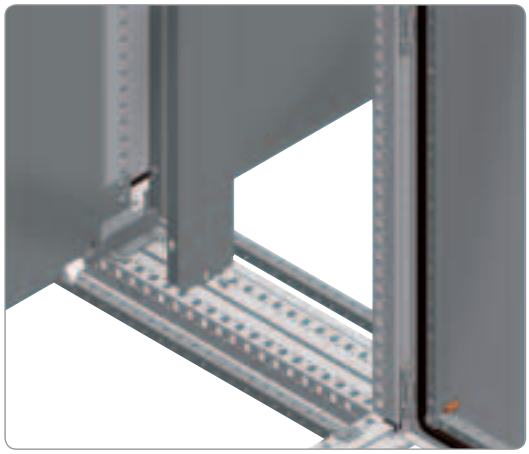


PB500793

Intermediate mounting plate

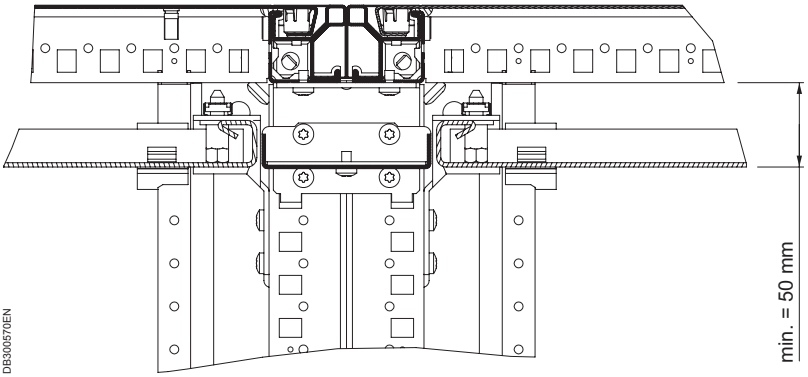
- Intermediate plate used to obtain a continuous surface of the mounting plate at enclosure suites.
- Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.
- Material: galvanised steel.

Supply: one intermediate plate and fixing elements.



PB500794

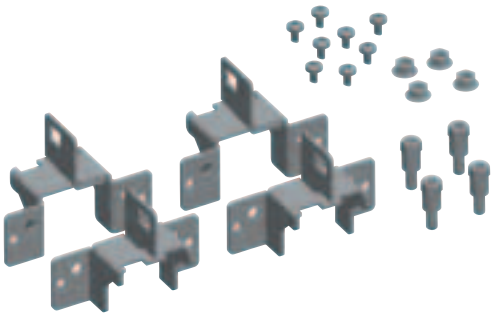
Nominal dimensions (mm) Height (A)	Reference
1200	**NSYSIMP12**
1400	**NSYSIMP14**
1600	**NSYSIMP16**
1800	**NSYSIMP18**
2000	**NSYSIMP20**
2200	**NSYSIMP22**



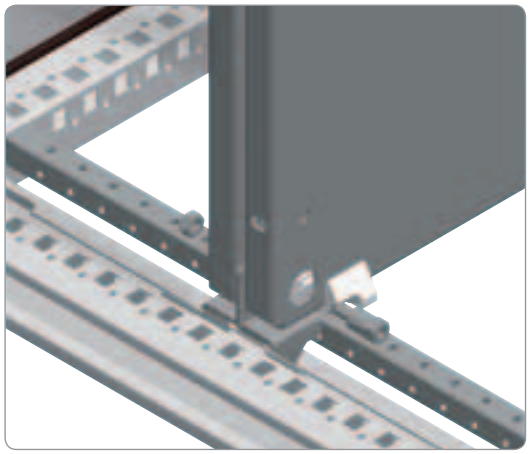
DB300570EN

Mounting
Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
				✓									



PB500795



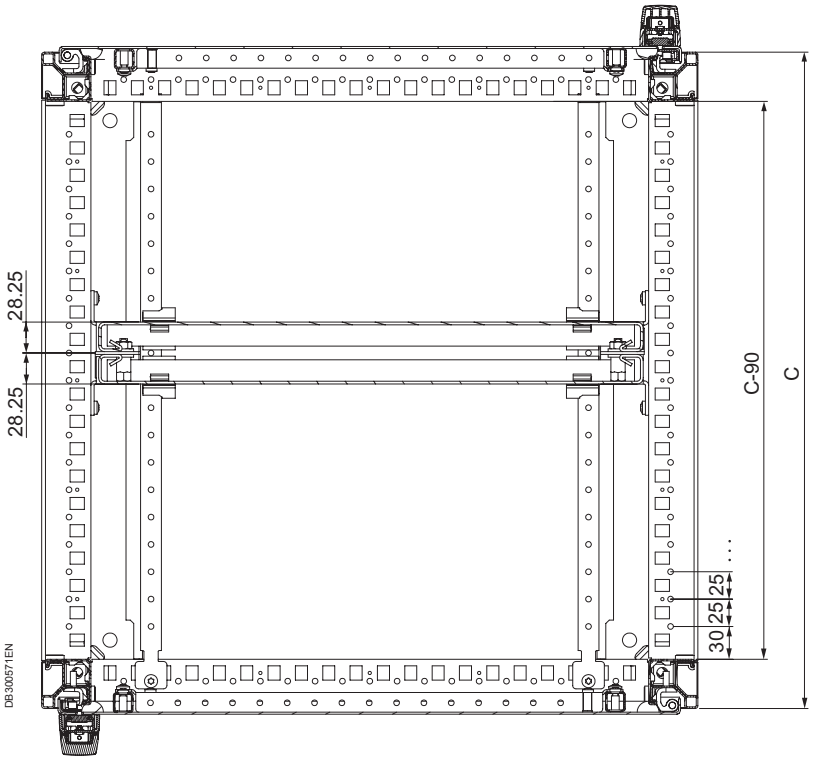
PB500796

Brackets for fixing mounting plates in back-to-back position

- Brackets for fixing two mounting plates, in back-to-back position, doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: zinc-coated steel.

Supply: four brackets for fixing back-to-back and fixing elements.

Reference
NSYSBTB



DB330571EN

Mounting
Installation accessories

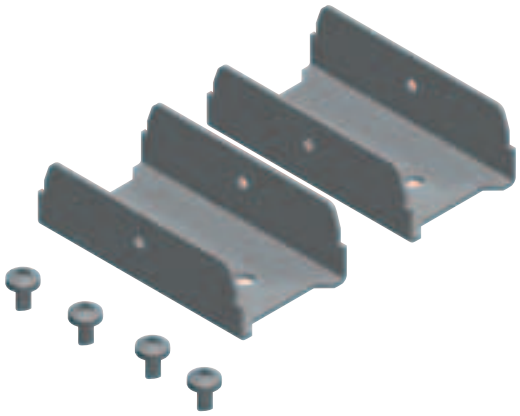
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

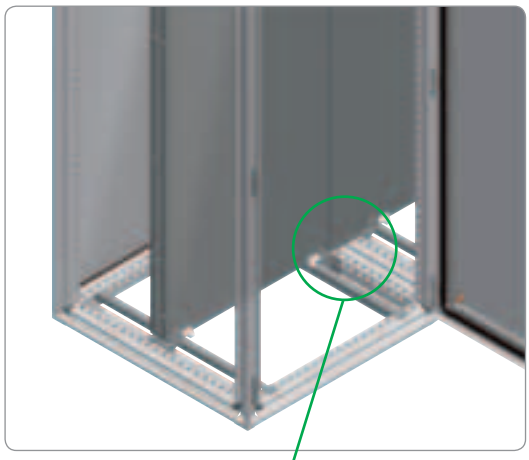
Brackets for fixing intermediate mounting plates in back-to-back position

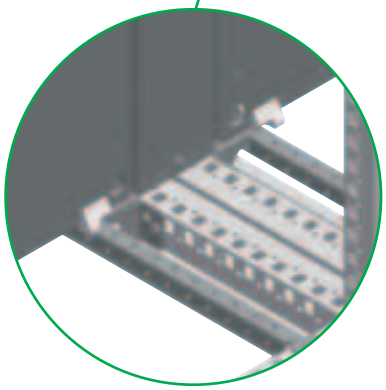
- Brackets for fixing two intermediate mounting plates, in back-to-back position, doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: zinc-coated steel.

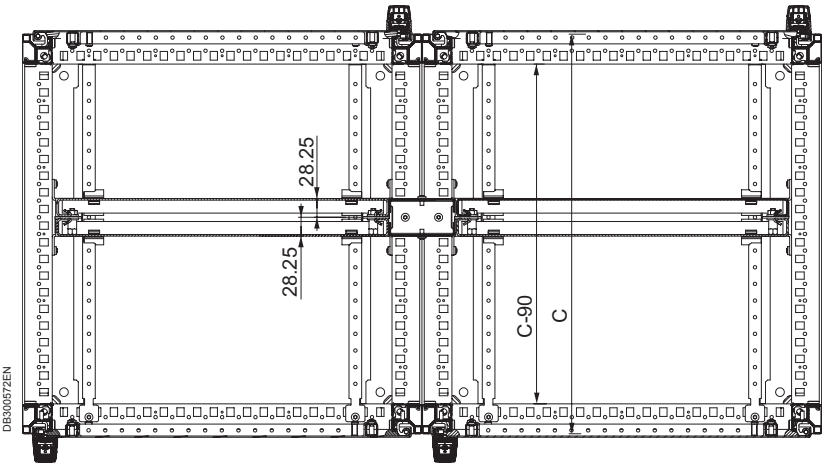
Supply: 2 brackets for fixing intermediate plates back-to-back and fixing elements.

Reference
NSYSIBTB


PB500797

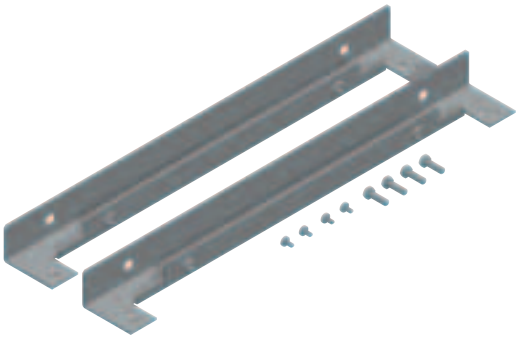


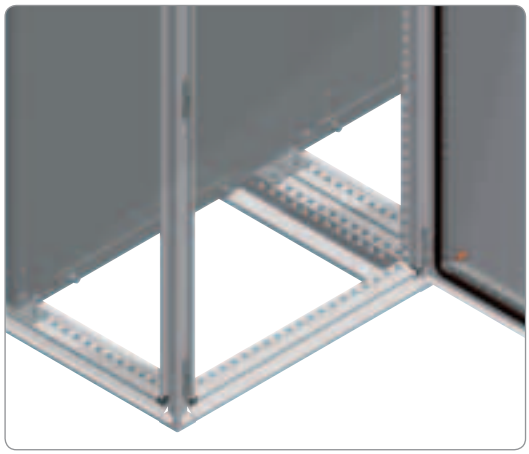

PB500798



DB300572EN

Mounting
Installation accessories


PB500799


PB500800

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
				✓				✓					

Side entry rails for the mounting plate

- Side entry device for the mounting plates when coupling **Spacial SF** enclosures or **Spacial SFX**.
- The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
- Material: zinc-coated steel.

Supply: two rails and fixing elements.

Nominal dimensions (mm) Width (B)	Reference
600	**NSYSMPSE6**
800	**NSYSMPSE8**
1000	**NSYSMPSE10**
1200	**NSYSMPSE12**

Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
		3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
		3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

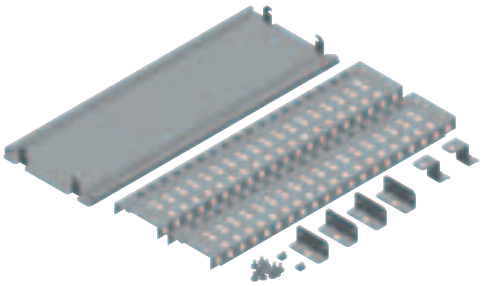
Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

Kit for adapting two-door enclosures

- Allows the installation of two mounting plates as if in two independent enclosures.
- A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this.
- Option of installing an intermediate mounting plate.
- Valid for enclosures with widths of 1200 and 1600 mm.
- In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.

Supply: two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements.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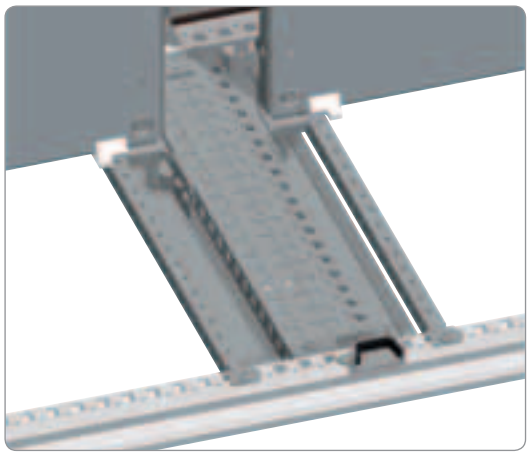
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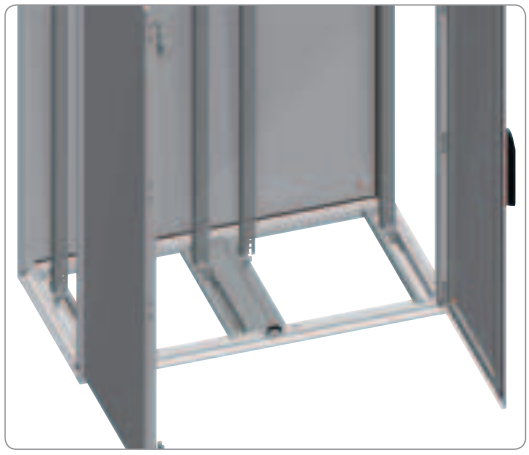
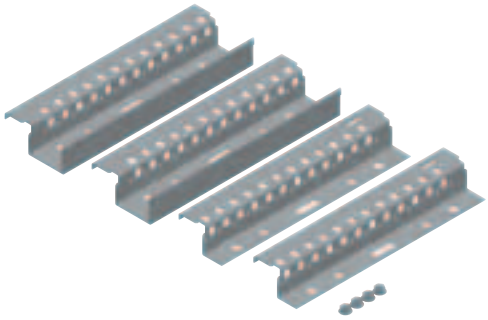

PB500803

Nominal dimensions (mm)	Reference
Depth (C)	
400	**NSYSMP2D4**
500	**NSYSMP2D5**
600	**NSYSMP2D6**
800	**NSYSMP2D8**

Mounting
Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓										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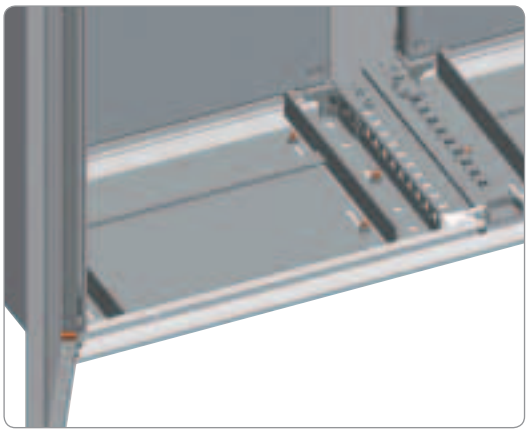
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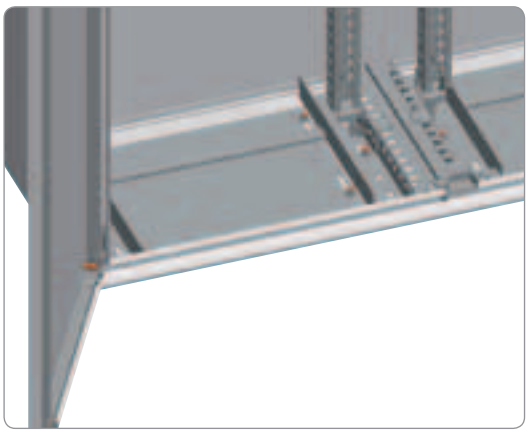

PB500806

Top/bottom adjustment rails

- Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures.
- A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this.
- Optional installation of an intermediate mounting plate.

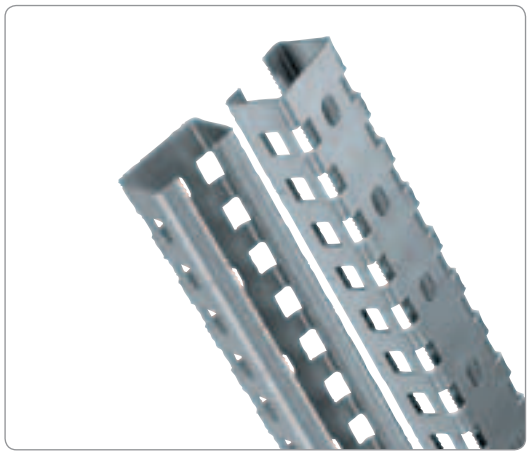
Supply: 2 rails, top and bottom, and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
300	**NSYSTBR3**
400	**NSYSTBR4**
500	**NSYSTBR5**
600	**NSYSTBR6**

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓			✓	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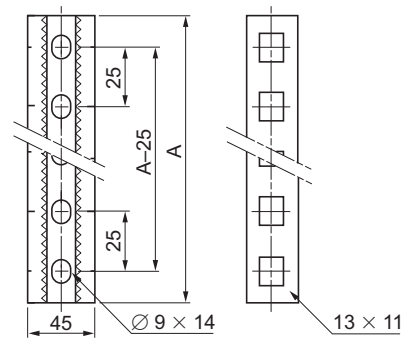
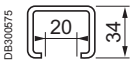




DB300675

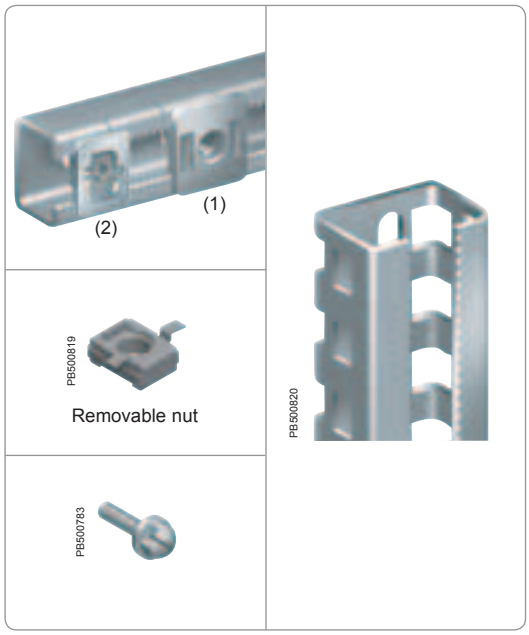
Technical uprights

- Vertical uprights for fixing plates and rails.
- They can be fixed to the fixing brackets of the mounting plate or to the upright-fixing bracket (ref. **NSYMFB**).
- Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).
- Thickness: 2 mm.

Supply: 2 standard uprights.

Enclosure height	A	Reference
750	625	**NSYTVR7**
1000*	675	**NSYTVR8**
1000	875	**NSYTVR10**
1200	1075	**NSYTVR12**
1250	1125	**NSYTVR125**
1400	1275	**NSYTVR14**
1500	1375	**NSYTVR15**
1600	1475	**NSYTVR16**
1800	1675	**NSYTVR18**
2000	1875	**NSYTVR20**
2200	2075	**NSYTVR22**

* Control desk.



PB500818
PB500819
PB500783
PB500820

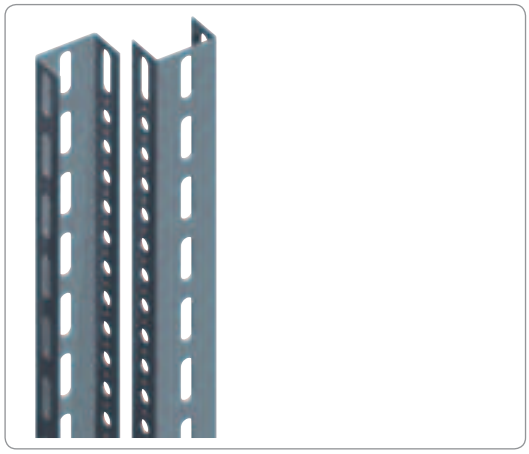
Nuts and screws for technical uprights

- Clip-on quarter-turn sliding nuts.
- Removable nuts to be installed in the 13 x 11 mm holes of the technical uprights. They also can be installed directly in the enclosure structure or in the cross rails.
- Hexagonal screw with washer.

Nuts and screws for technical vertical upright	Supply (units)	Reference
M6 quarter-turn sliding nut (1)	10	**NSYSNM6**
M8 quarter-turn sliding nut (1)	10	**NSYSNM8**
M6 quarter-turn serrated sliding nut (2)	10	**NSYSNSM6**
M8 quarter-turn serrated sliding nut (2)	10	**NSYSNSM8**
M6 renovable nut	50	**NSYCNM6**
M8 renovable nut	50	**NSYCNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

Mounting
Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

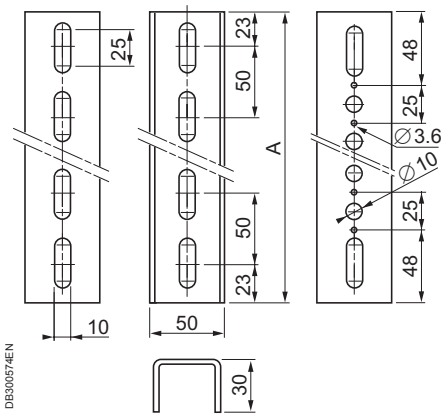

PB500482

Standard uprights

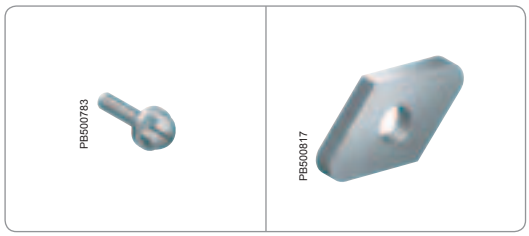
- Vertical uprights for fixing plates and rails.
- They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**.
- Adjustable height with a pitch of 25 or 50 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: two standard vertical uprights.

Nominal dimensions (mm)	Reference
Height (A)	Standards
1800	**NSYVR18**
2000	**NSYVR20**
2200	**NSYVR22**



DB300574EN


PB500783
PB500817

Nuts and screws for standard uprights

- Flat nut for standard uprights.
- Hexagonal screw with washer.

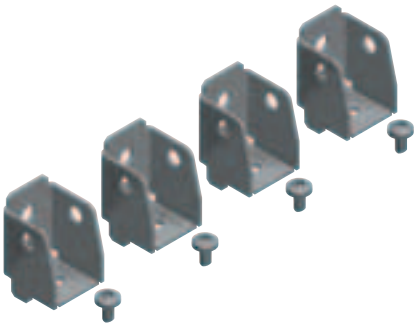
Nuts and screws for standard vertical upright	Supply (units)	Reference
M6 flat nut	50	**NSYFNM6**
M8 flat nut	50	**NSYFNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

Reference by unit. Order by multiples of 50 (Flat nuts) and 100 (Screws).

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				



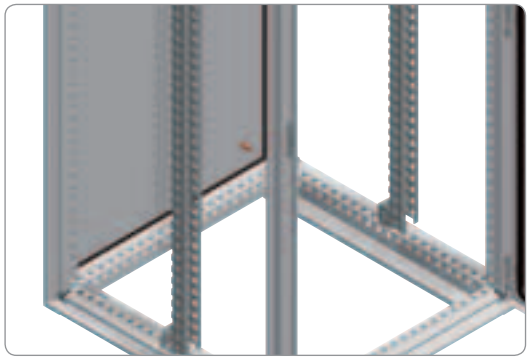
PB500823

Bracket for fixing uprights

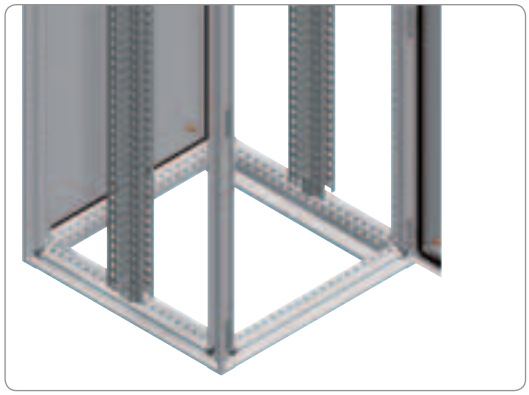
- Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
- They allow two pairs of uprights to be fixed back to back, doubling the working surface.
- The brackets are fixed to the structure by means of M6 self-tapping screws.
- Adjustable depth with a pitch of 25 mm.
- Material: zinc-coated steel.

Supply: four brackets for fixing uprights and fixing elements.

Reference
NSYMFB



PB500821



PB500822

Mounting
Installation accessories

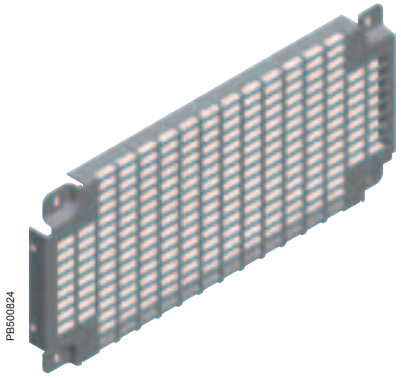
Telequick System

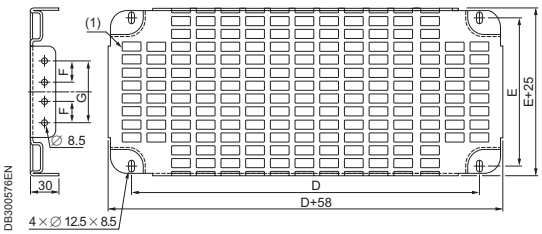
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Perforated mounting plate “Telequick”

- Allows the installation of switchgear without drilling or screwing.
- Plate designed for quick fixing of switchgear by means of clip-on nuts ref. **NSYKNM3** to **NSYKNM6**.
- Fixing options:
  – Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF).
  – To the technical vertical uprights, by means of sliding nuts, page **344**; to standard uprights by means of flat nuts, page **345** or self-tapping screws, and to cross rails.
- Vertical continuity is guaranteed by the vertical installation of plates.
- The top plate must be fixed in the third hole, 80 mm from the top frame.
- Material: zinc-coated steel.

Supply: one perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails.


PB500824



(1) Cut-outs 11 x 26 with a pitch of 15 x 30.

Nominal dimensions (mm)	Plate height (mm)				Useful surface (Dm^2)	Reference
Width (B)	D	E	F	G		
600	450	200	–	100	11.4	**NSYSTMP2260**
	450	425	–	325	22.8	**NSYSTMP4560**
	450	575	125	475	30.4	**NSYSTMP6060**
	450	800	250	700	11.9	**NSYSTMP8260**
800	650	200	–	100	15.9	**NSYSTMP2280**
	650	425	–	325	31.8	**NSYSTMP4580**
	650	575	125	475	42.4	**NSYSTMP6080**
	650	800	250	700	58.4	**NSYSTMP8280**
1000	850	200	–	100	20.4	**NSYSTMP22100**
	850	425	–	325	40.8	**NSYSTMP45100**
	850	575	125	475	54.4	**NSYSTMP60100**
	850	800	250	700	74.9	**NSYSTMP82100**
1200	1050	200	–	100	24.9	**NSYSTMP22120**
	1050	425	–	325	49.9	**NSYSTMP45120**
	1050	575	125	475	66.5	**NSYSTMP60120**
	1050	800	250	700	91.5	**NSYSTMP82120**
1600	Order two 800-mm plates					

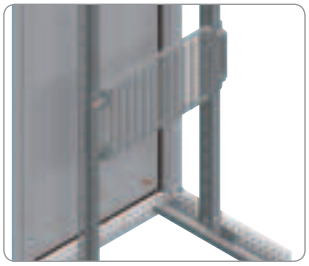
Examples of perforated mounting plate installation

PB500825

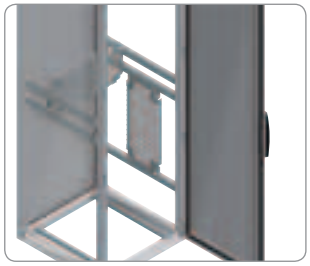
(1) Perforated plate mounted on structure.

PB500826

(2) Perforated plate mounted on technical vertical uprights.


PB500827

(3) Perforated plate mounted on standard vertical uprights.


PB500828

(4) Perforated plate mounted on cross rails.

See also the accessories

PB500775

Plastic cable support ref. **NSYSPC** page **448**

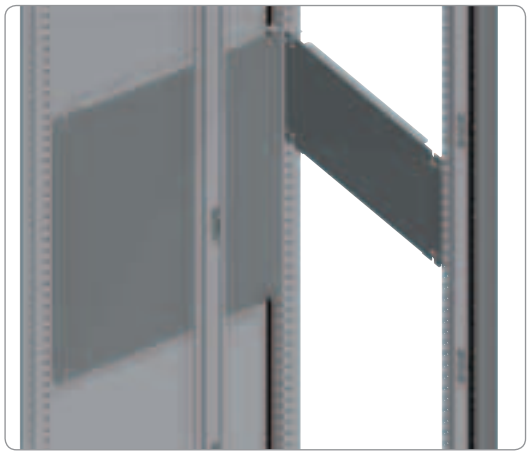
PB500774

Lyre-shaped clamp for plate ref. **AK2LA39** page **449**

Mounting
Installation accessories

Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓				✓					


PB500807

Partial mounting plate

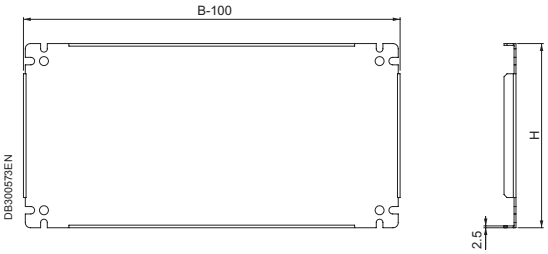
- Partial mounting plate, provided with reinforcement flange on its four sides.
- Fixing options:

– **Spacial SF, SFX:**
  - Fixing to the vertical uprights of the structure.
  - Fixing to the technical or standard vertical uprights, see page **344**.
  - For installations in advanced position, fixing to cross-rails, see page **357**.

– **Spacial SM:**
  - Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails.
  - It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page **357**.

- Material: galvanised steel.

Supply: partial mounting plate and fixing elements.



DB300573EN

Nominal dimensions (mm) Width (B)	Plate height (mm) (H)	Plate length (mm) (B-100)	Reference
600	247	500	**NSYSPMP2560**
	247	750	**NSYSPMP2575**
	397	500	**NSYSPMP4060**
	597	500	**NSYSPMP6060**
800	247	700	**NSYSPMP2580**
	397	700	**NSYSPMP4080**
	597	700	**NSYSPMP6080**
1000	247	900	**NSYSPMP25100**
	397	900	**NSYSPMP40100**
	597	900	**NSYSPMP60100**
1200	247	1100	**NSYSPMP25120**
	397	1100	**NSYSPMP40120**
	597	1100	**NSYSPMP60120**
1600	397	1100	**NSYSPMP40160**

PB500808

Self-tapping screw

- Self-tapping screw, hexagonal head, 4.8 x 16 mm thread.
- Drilling capacity: thicknesses between 1.75 and 4 mm.

Supply: 100 units.

To be ordered in multiples of 100 (100, 200, 300, etc.).

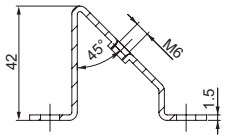
Reference
NSYS16M5HS

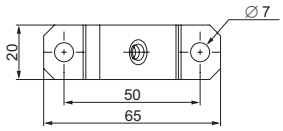
Mounting
Installation accessories

Telequick System

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

PB500829





DB300715EN

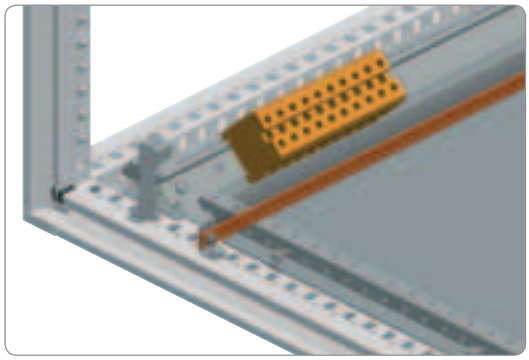
Rail support bracket

- Bracket for fixing rails at an angle of 45°.
- **Spacial SF:** mounted on the structure and/or mounting plates.
- **Spacial SM:** mounted on the bottom mounting rail and/or mounting plates.
- Material: zinc-coated steel.

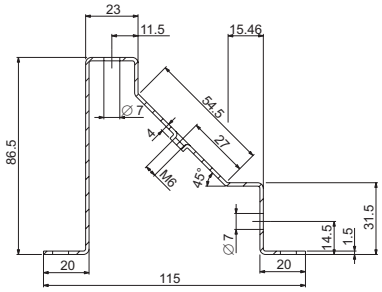
Supply: ten units and fixing elements.

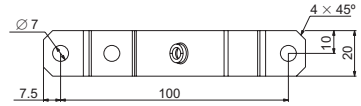
Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYFB45



PB500831





DB300324EN

Combined support bracket

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
- **Spacial SF** installation: directly on the structure and/or using mounting plates.
- **Spacial SM** installation: on the bottom adjustment rails and/or on mounting plates.
- Material: zinc-coated steel.

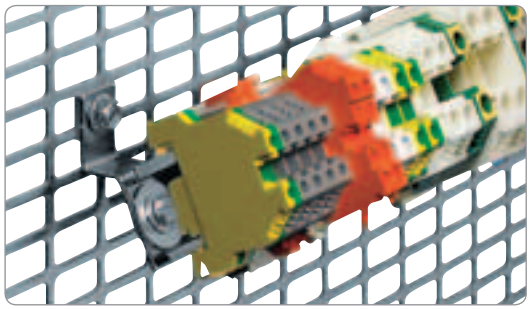
Supply: ten combined support brackets and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYETF

Mounting
Installation accessories

Telequick System

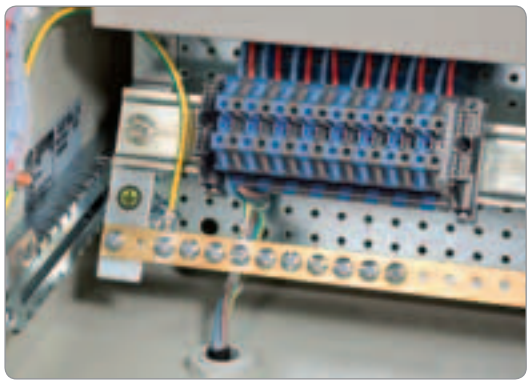

PB500830

Terminal-block support bracket

- Tilted to 45°.
- Material: treated steel.

Composition: 2 lugs and fixings

Reference
NSYEDCO


PB500833

Combined fixing lugs for the earthing strip

- They allow the mounting of an earth-collector rail at the bottom of the enclosure and a DIN rail.
- Tilted to 30°.
- Earthing strip, ref. **NSYECB1M153**. See page **479**.

Composition: 2 fixing lugs and fixing elements.

Reference
DZ5MS10

Mounting
Installation accessories

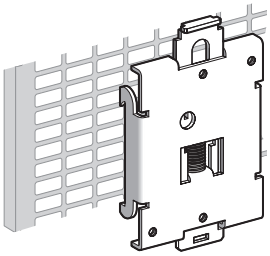
Telequick System

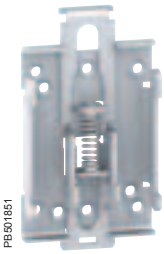
Clicked support plate

For screw mounted equipment. Zinc-plate coated, for mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.

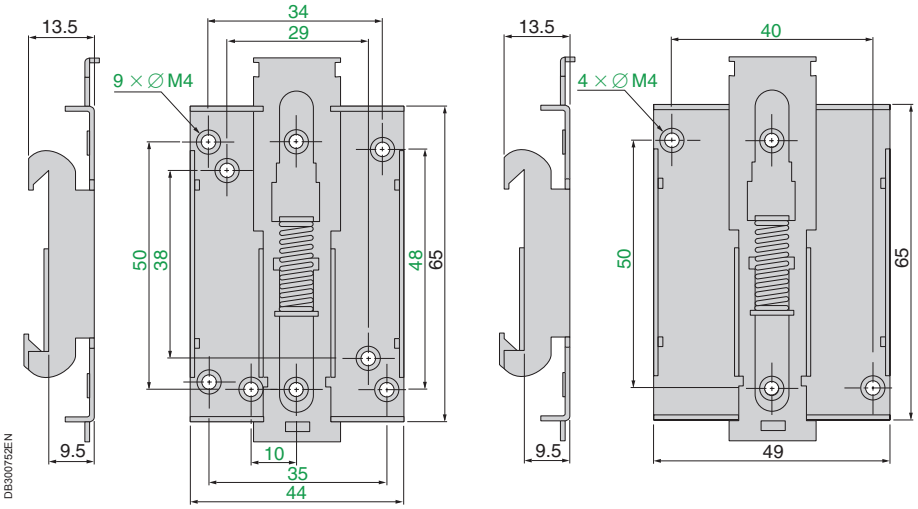
Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).





Dimension (A) (mm)	Reference
44 x 65 - 9 screws	**AX2DL01**
49 x 65 - 4 screws	**AX2DL02**

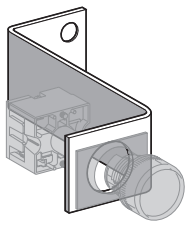


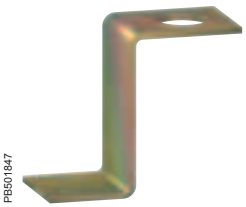
Bracket for fixing control units (Ø 22)

To mount any 22 mm diameter device directly on mounting plates.

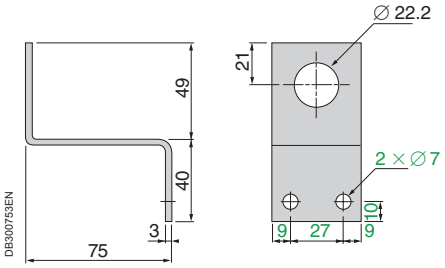
Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).





Description	Reference
Fixing bracket	**DX1AP52**



Mounting
Cross rails and profiles

Telequick System

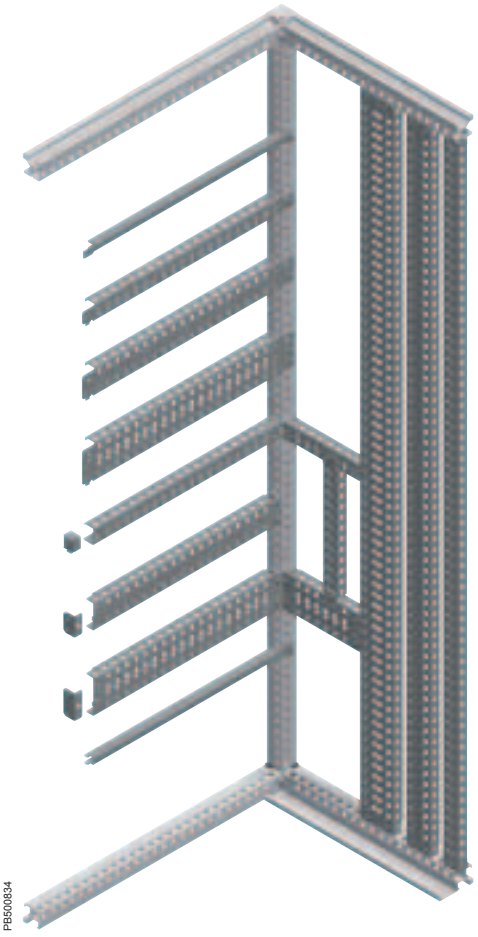
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Combination examples

In the **Spacial SF**, **SM**, **SFX** and **SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.
In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

For the formation of structures inside the enclosure, it is possible to combine three types of cross rails:
– Universal cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
– Quick-fixing cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
– Light cross rails.
– Mounting plate sliding rails, see page **337**.

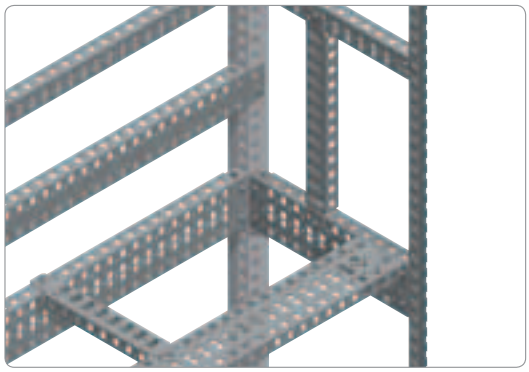
PB500465


PB500834

Mounting
Cross rails and profiles

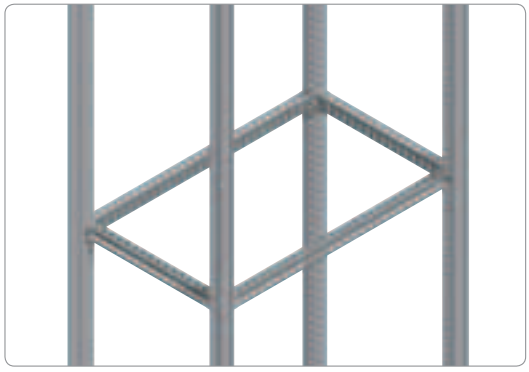
Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				



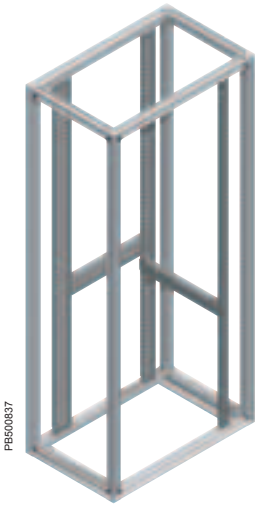
PB500486

Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.



PB500835

The universal cross rails allow installations at the same level, around the entire perimeter of the enclosure.
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.



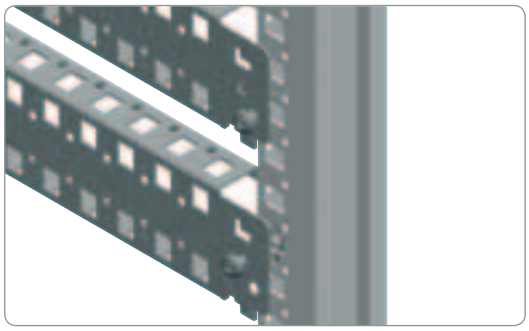
PB500837

Spacial SF: the universal cross rails can be installed in vertical position.

Mounting
Cross rails and profiles

Telequick System

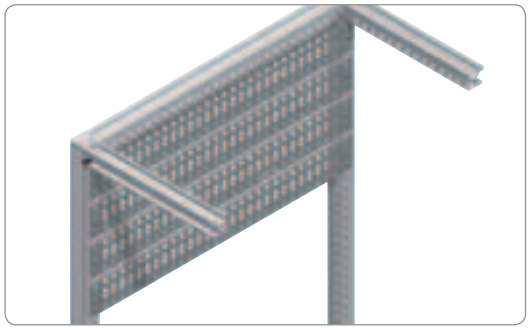
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				



PB500838

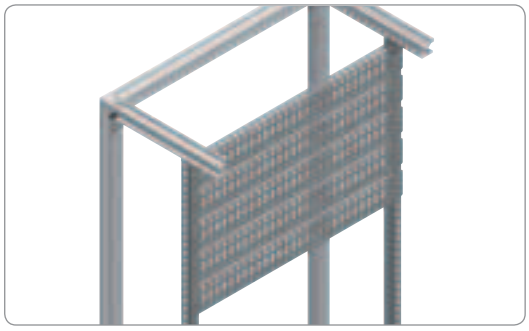
The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.
- **Spacial SF and SFX*:**
  – They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.
- **Spacial SM:**
  – Possibility of clipping onto the adaptation profile or another cross rail.
  – Fixing by means of M6 self-tapping screws.
  – Fixing by means of M6 caged nuts.

* In enclosures Spacial SFX is not possible to mount it in depth.



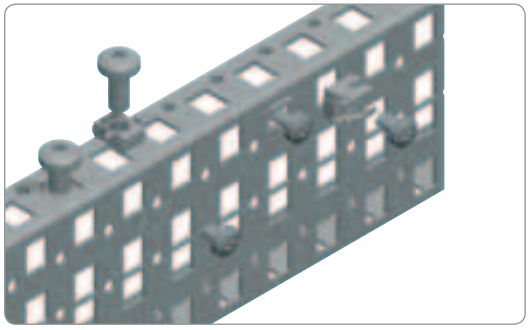
PB500839

The quick-fixing cross rails can be used as a support for equipment in the back of the enclosure or offset with a pitch of 25 mm, using two universal cross rails in vertical position.



PB500841

The 40 mm universal cross rails (1 row) used as depth-adjustable uprights with a pitch of 25 mm allow the installation of a multitude of supports for installing switchgears. The height may be adjusted with a pitch of 25 mm.

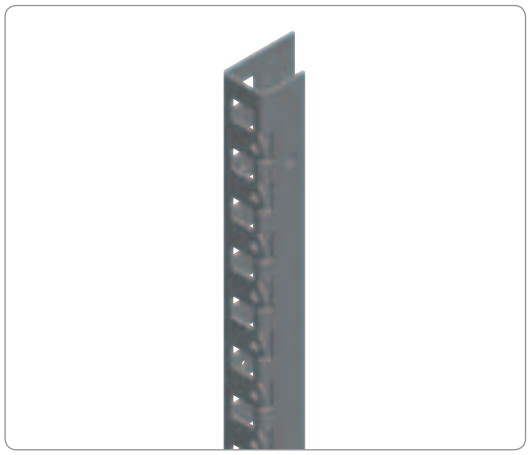


PB500842

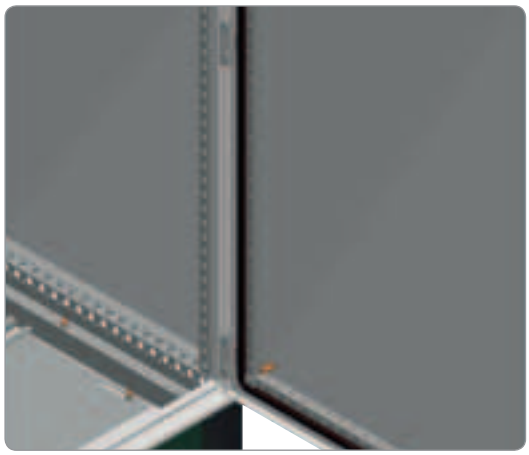
The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

Mounting
Cross rails and profiles

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓										



PB500478



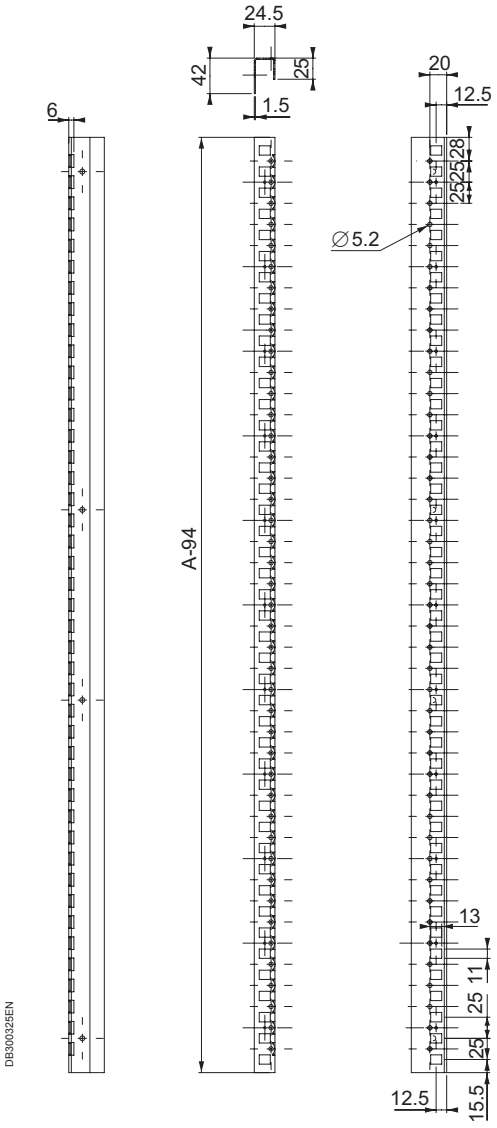
PB500843

Vertical adaptation profiles

- The vertical adaptation profiles provide fixing points at the entrance to the enclosure.
- Fixing on the screws of the hinge and catches of the lock.
- Allows the depthwise fixing of cross rails, etc.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.

Supply: 2 vertical adaptation profiles and fixing screws.

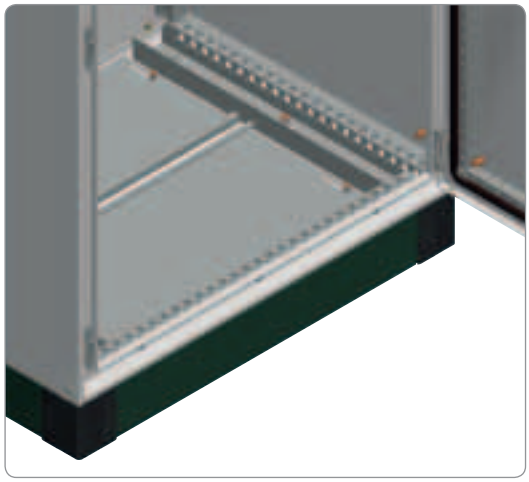
Nominal height (mm) (A)	Reference
1200	**NSYSMVR12**
1400	**NSYSMVR14**
1600	**NSYSMVR16**
1800	**NSYSMVR18**
2000	**NSYSMVR20**



Mounting
Cross rails and profiles

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓										

PB500844

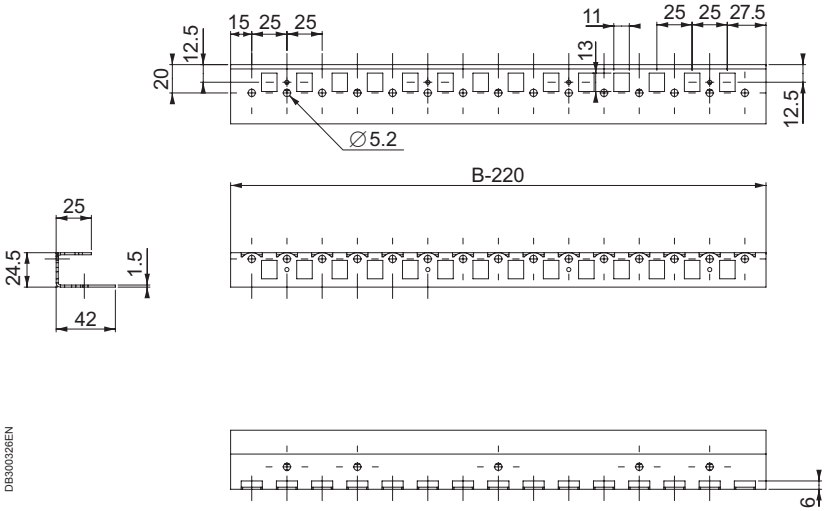

PB500845

Horizontal adaptation profiles

- The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.

Supply: 2 horizontal adaptation profiles and fixing screws.

Nominal width (mm) (B)	Reference
600	**NSYSMHR6**
800	**NSYSMHR8**
1000	**NSYSMHR10**
1200	**NSYSMHR12**
1600	**NSYSMHR16**



Mounting
Cross rails and profiles

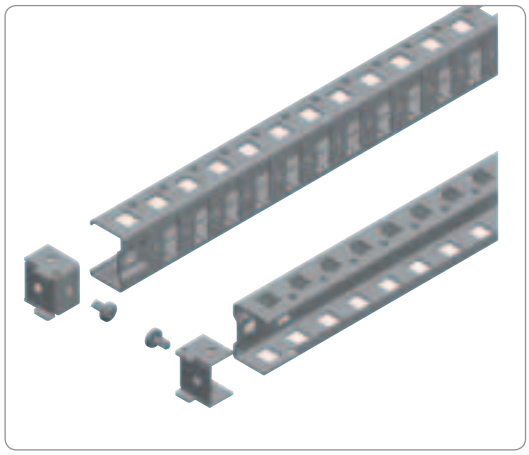
Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Universal cross rails

- Various versions available, according to the width: 40 (1 row), 65 (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm for the formation of structures inside the enclosure.
- They allow the performance of any type of assembly, as well as the adjustment of the depth of the various types of installation systems (partial plates, 19" racks, etc.).
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

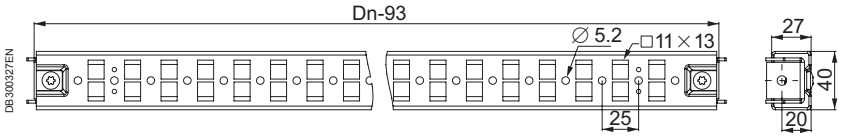
Supply: two universal cross rails, four supports for universal cross rails and fixing elements.

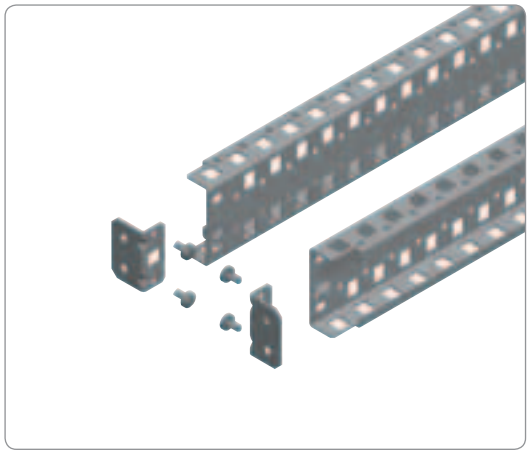


PB500846

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) by rail	Reference 40 mm (1 row)
300	70	**NSYSUCR4030**
400	60	**NSYSUCR4040**
500	60	**NSYSUCR4050**
600	50	**NSYSUCR4060**
800	40	**NSYSUCR4080**
1000	30	**NSYSUCR40100**
1200	20	**NSYSUCR40120**
1400	(1)	**NSYSUCR40140**
1600	(1)	**NSYSUCR40160**
1800	(1)	**NSYSUCR40180**
2000	(1)	**NSYSUCR40200**
2200	(1)	**NSYSUCR40220**

(1) For vertical assembly only.

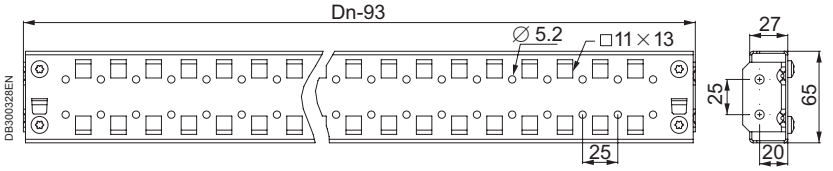




PB500847

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) by rail	Reference 65 mm (2 rows)
300	110	**NSYSUCR6530**
400	100	**NSYSUCR6540**
500	90	**NSYSUCR6550**
600	80	**NSYSUCR6560**
800	70	**NSYSUCR6580**
1000	50	**NSYSUCR65100**
1200	50	**NSYSUCR65120**
1400	(1)	**NSYSUCR65140**
1600	(1)	**NSYSUCR65160**
1800	(1)	**NSYSUCR65180**
2000	(1)	**NSYSUCR65200**
2200	(1)	**NSYSUCR65220**

(1) For vertical assembly only.



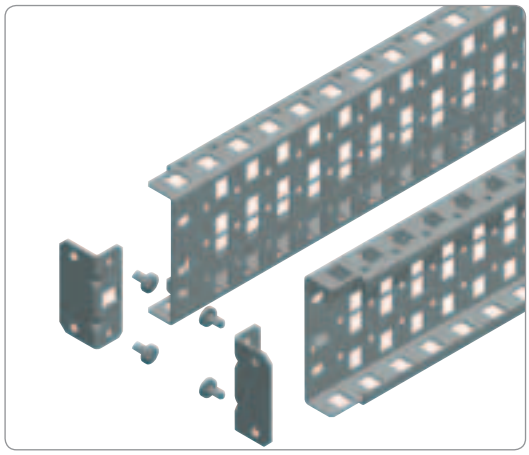
> Advantage:

The universal cross rails allow any type of installation to be performed.

Mounting
Cross rails and profiles

Telequick System

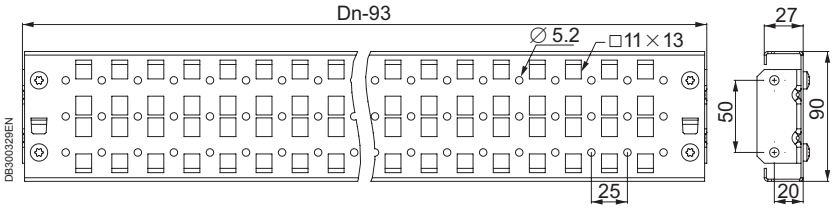
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

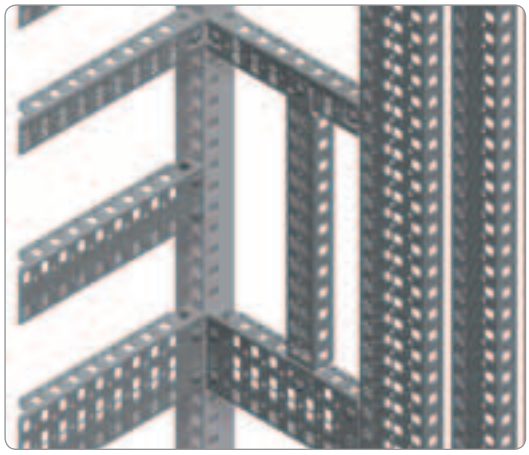


PB500848

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) by rail	Reference 90 mm (3 rows)
300	130	**NSYSUCR9030**
400	120	**NSYSUCR9040**
500	120	**NSYSUCR9050**
600	110	**NSYSUCR9060**
800	100	**NSYSUCR9080**
1000	70	**NSYSUCR90100**
1200	70	**NSYSUCR90120**
1400	(1)	**NSYSUCR90140**
1600	(1)	**NSYSUCR90160**
1800	(1)	**NSYSUCR90180**
2000	(1)	**NSYSUCR90200**
2200	(1)	**NSYSUCR90220**

(1) For vertical assembly only.





PB500849

Other dimensions

- Other dimensions of universal cross rails of 40 (1 row) and 90 mm (3 rows) for assembly in other positions, and between cross rails.
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

Supply: two universal cross rails, four supports for universal cross rails and fixing elements.

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) (1)	Reference 40 mm (1 row)	Maximum load (kg) by rail	Reference 90 mm (3 rows)
700	50	**NSYSUCR4070**	110	**NSYSUCR9070**
900	40	**NSYSUCR4090**	100	**NSYSUCR9090**
1100	30	**NSYSUCR40110**	70	**NSYSUCR90110**
1500	(1)	**NSYSUCR40150**	(1)	**NSYSUCR90150**

(1) Cross rails only for fixing cables.

Mounting
Cross rails and profiles

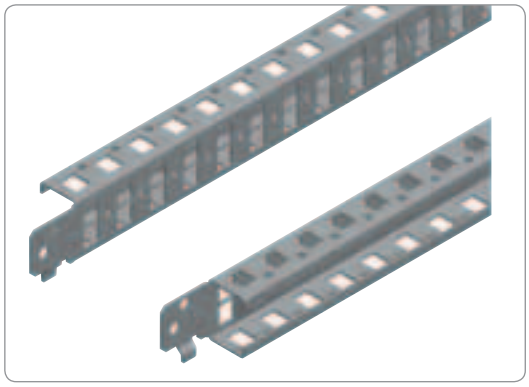
Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

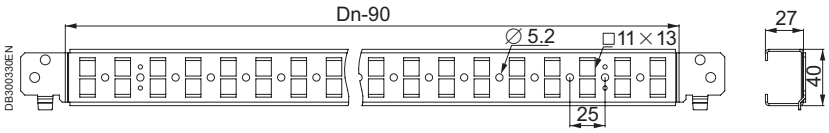
Quick-fixing cross rails

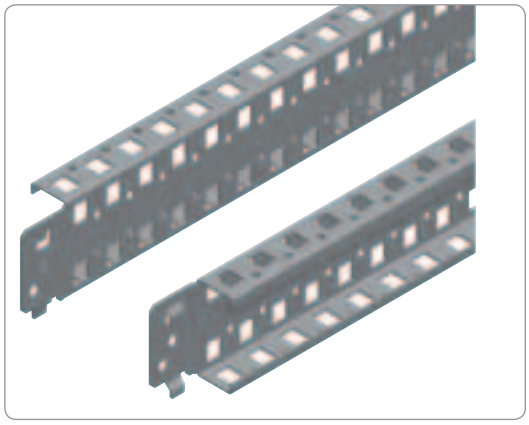
- There are 3 models, according to width: 40 mm (1 row), 65 mm (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm (Ø 5.2 mm).
- Adjustable with a pitch of 25 mm.
- **Spacial SF:** they are fixed directly to the structure, quickly and safely. Clip-on plus screwing.
- **Spacial SM:** cross rails for depthwise fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.
- Material: zinc-coated steel.

Supply: two quick-fixing cross rails and fixing elements.

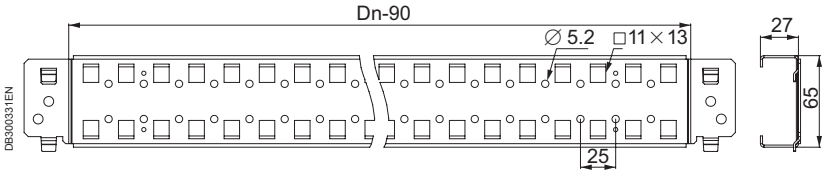

PB500850

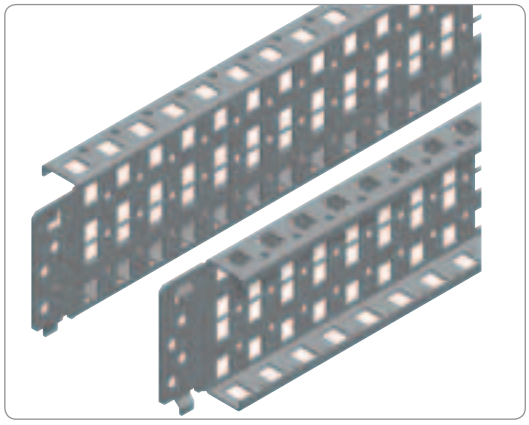
Nominal dimensions Height/Width/Depth	Maximum load (kg) by rail	Reference 40 mm (1 row)
400	60	**NSYSQCR4040**
500	60	**NSYSQCR4050**
600	50	**NSYSQCR4060**
800	40	**NSYSQCR4080**
1000	30	**NSYSQCR40100**
1200	20	**NSYSQCR40120**



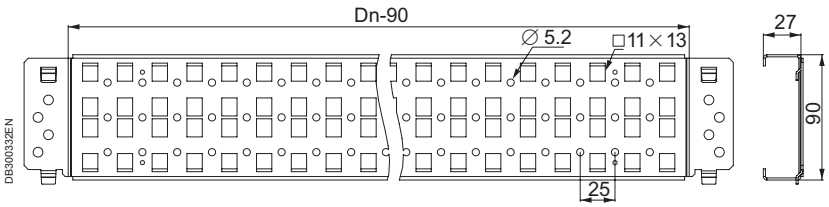

PB500851

Nominal dimensions Height/Width/Depth	Maximum load (kg) by rail	Reference 65 mm (2 rows)
400	100	**NSYSQCR6540**
500	90	**NSYSQCR6550**
600	80	**NSYSQCR6560**
800	70	**NSYSQCR6580**
1000	50	**NSYSQCR65100**
1200	50	**NSYSQCR65120**



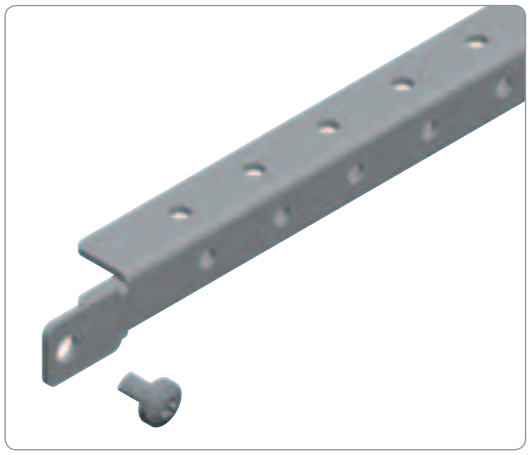

PB500852

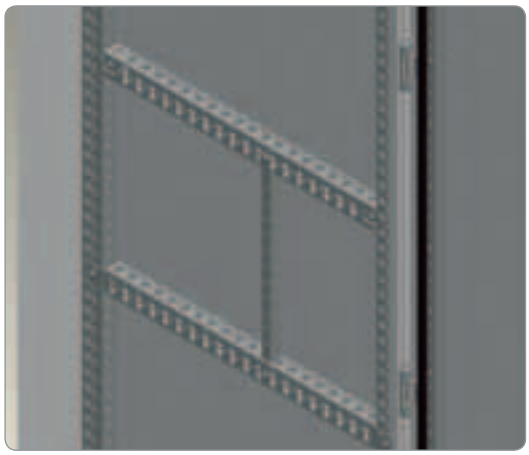
Nominal dimensions Height/Width/Depth	Maximum load (kg) by rail	Reference 90 mm (3 rows)
400	120	**NSYSQCR9040**
500	120	**NSYSQCR9050**
600	110	**NSYSQCR9060**
800	100	**NSYSQCR9080**
1000	70	**NSYSQCR90100**
1200	70	**NSYSQCR90120**



Mounting
Cross rails and profiles

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓				✓					


PB500853

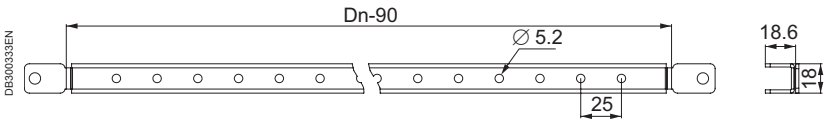

PB500854

Light cross rails

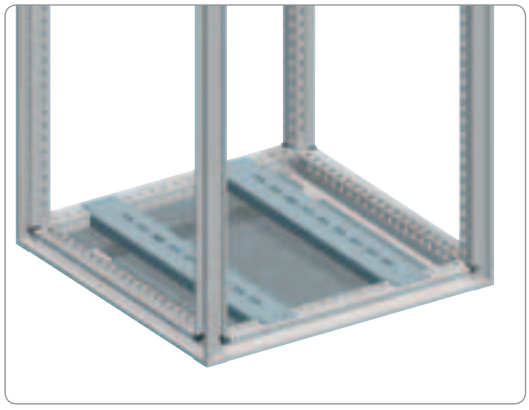
- **Spacial SF and SFX:** direct fixing to the structure or between cross rails.
- **Spacial SM:** fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.
- Adjustable with a pitch of 25 mm.
- The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
- Material: zinc-coated steel.

Supply: two light cross rails and fixing elements.

Nominal dimensions	Reference
Width/Depth	
400	**NSYSLCR40**
500	**NSYSLCR50**
600	**NSYSLCR60**
800	**NSYSLCR80**



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									


PB500855

Rails for heavy loads

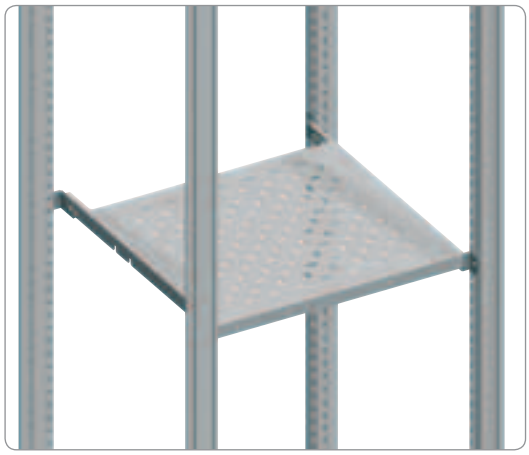
- They can be mounted with a cable-gland plate or with a previously mounted mounting plate.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes, for adjusting the centre-to-centre distance of the switchgear.
- Material: galvanised steel.
- Thickness: 4 mm.

Supply: 2 rails for heavy loads and fixing elements.

Nominal dimensions (mm)	Maximum load (kg)	Reference
Depth		
400	575	**NSYHLCR40**
500	525	**NSYHLCR50**
600	500	**NSYHLCR60**
800	475	**NSYHLCR80**

Mounting
Equipment support accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									


PB500523

Tray installed on the structure.

> Advantage:
Withstands loads of up to 150 kg.

Fixed tray

- Options for fixing the tray to the enclosure:
– If the tray has the same dimensions as the enclosure:
  - **Spacial SF:** direct fixing to the structure.
  - **Spacial SFX:** instalation possible only with universal cross rails, see on page **357**.
  - **Spacial SM:** fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position.
– If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails.
  - Depth-adjustable tray with a pitch of 25 mm.
- Provided with cut-outs for improving air circulation inside.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL-7035 grey.
- Acceptable load: 150 kg, evenly distributed.
- Tray height: 30 mm.

Supply: one fixed tray and fixing elements.

Nominal dimensions (mm)		Tray Dimensions (mm)	Reference
Width	Depth		
600	400	482 x 290 x 30	**NSYFXT6040**
	500	482 x 390 x 30	**NSYFXT6050**
	600	482 x 490 x 30	**NSYFXT6060**
800	400	682 x 290 x 30	**NSYFXT8040**
	500	682 x 390 x 30	**NSYFXT8050**
	600	682 x 490 x 30	**NSYFXT8060**

PB500669

Telescopic rails fixed to the structure.

Telescopic rails

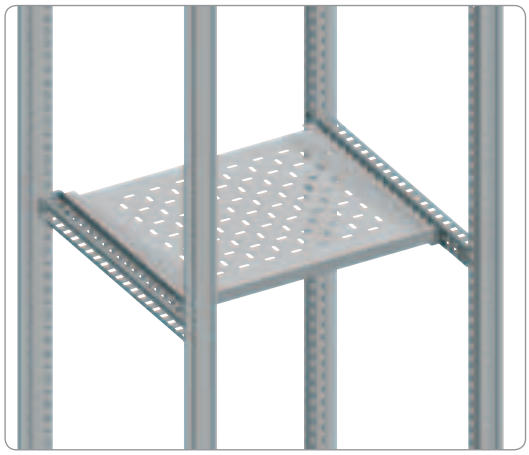
- **Spacial SF:** installation directly on the structure of the enclosure or on universal cross rails.
- **Spacial SFX:** Instalation possible only with universal cross rails, see on page **357**.
- **Spacial SM:** installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails.
- The installation of a telescopic tray consists of the following:
– 1 fixed tray.
– 2 telescopic rails.
- End-of-travel stop of the rails in open and closed position.
- Material: zinc-coated steel.
- Acceptable load: 50 kg evenly distributed.

Supply: two telescopic rails and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
400	**NSYTTG40**
500	**NSYTTG50**
600	**NSYTTG60**

Mounting
Equipment support accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					



PB500668

Tray installed on cross rails.

PB500672

Tray cross rails

- The cross rails allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page **357**.

Nominal dimensions (mm)	Universal cross rail reference	Quick-fixing cross rail reference
Depth	40 mm (1 row)	40 mm (1 row)
400	**NSYSUCR4040**	**NSYSQCR4040**
500	**NSYSUCR4050**	**NSYSQCR4050**
600	**NSYSUCR4060**	**NSYSQCR4060**
800	**NSYSUCR4080**	**NSYSQCR4080**

PB500671

Handle for telescopic trays

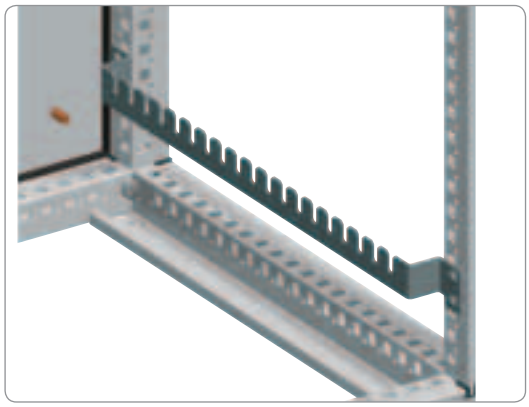
- Handle designed for easy extraction of the sliding trays.
- Material: polyamide 6 (black).

Supply: two units and fixing elements.

Reference
NSY1TH

Mounting
Equipment support accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									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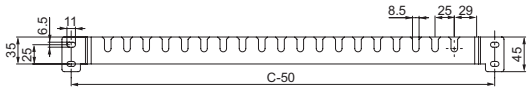


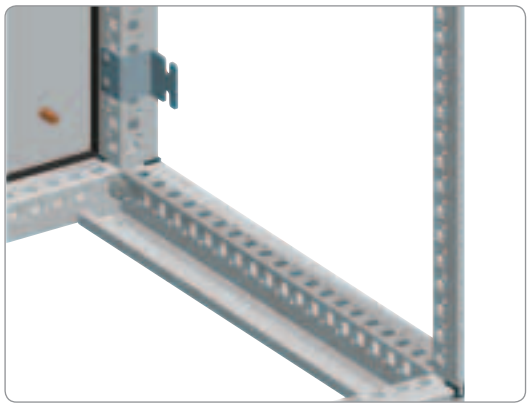
DB300334EN

Cross rail for Lütze chassis

- Cross rail for fixing and adjusting the depth of the Lütze chassis.
- Material: galvanised steel.
- Thickness: 2.5 mm.

Supply: 6 cross rails for Lütze chassis and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	
400	**NSYLCR40**
500	**NSYLCR50**
600	**NSYLCR60**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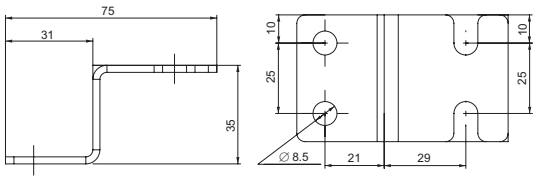


DB300335EN

Support for Lütze chassis

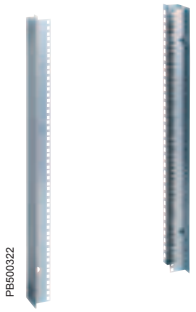
- Support for installing Lütze chassis in the back of the enclosure.
- Material: galvanised steel.
- Thickness: 2.5 mm.

Supply: 6 supports and fixing elements.

Reference
NSYLSUP

Mounting
19" Chassis

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓							



19" fixed chassis for wall mounting enclosure

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Matérial: galvanized steel, thickness 20/10 mm.
- Maximum load: 3 kg per unit.
- Adjustable in depth by fixing on the step slides in accessories.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	8	**NSYVDM8UF**
600	600	12	**NSYVDM12UF**
800	600	17	**NSYVDM17UF**
1000	600	21	**NSYVDM21UF**

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓							

19" swing chassis for wall mounting enclosure

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: steel, textured epoxy-polyester powder paint colour grey RAL 7035.
- Maximum load: 3 kg per unit.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	7	**NSYVDM7UP**
600	600	11	**NSYVDM11UP**
800	600	16	**NSYVDM16UP**
1000	600	20	**NSYVDM20UP**
1000	800	20	**NSYVDM20U8P**
1200	800	25	**NSYVDM25U8P**

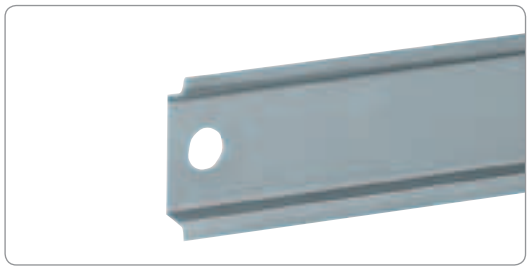
Fixings for 19" rack

- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.

Batch of	Name	Reference
30	M6 screws + washers + nuts	**NSYGFR95M63**
50	M6 x 16 screws and washers	**NSYGFR166P**
100	M6 caged nuts	**NSYCN9M625**
50	M6 screws + washers + nuts	**NSYGFR95M65**
50	M5 screws + washers + nuts	**NSYGFR95M55**

Mounting
Rails

Telequick System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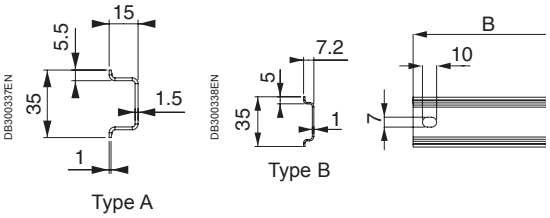


Symmetric DIN rails

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		

Symmetric DIN rail for the Wall-Mounting range

- Fixing to mounting plates or another fixing elements, uprights not included in the supply.
- 2 types:
– Type A: 35 x 15 mm, thickness 1.5 mm.
– Type B: 35 x 7,5 mm, thickness 1 mm.
- Material: zinc-coated steel.

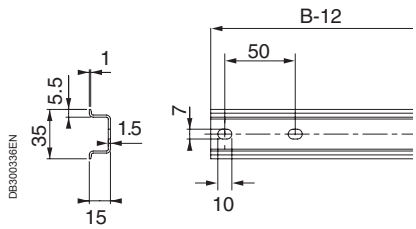
Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Rail type	Rail length (B) (mm)	Reference
300	B	250	**NSYSDR30B**
400	B	350	**NSYSDR40B**
500	A	450	**NSYSDR50A**
600	A	550	**NSYSDR60A**
800	A	750	**NSYSDR80A**
1000	A	950	**NSYSDR100A**

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

PB500222



Symmetric DIN rails for the metal enclosure range

- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in case of enclosure assembly.
- Rail type:
– Type A: 35 x 15 mm, thickness 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References per unit. Please place orders in multiples of 20 units (20, 40, etc.).

Dimensions (mm) (B)	Rail length (mm) (B-12)	Reference
600	588	**NSYSDR60**
800	788	**NSYSDR80**
1000	988	**NSYSDR100**
1200	1188	**NSYSDR120**

Nuts			
	Type	Reference	
	M4	**AF1GC4**	100
	M5	**AF1GC5**	100
	M6	**AF1GC6**	100

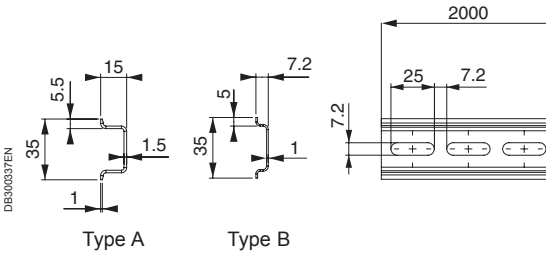
PB500863
Clip-on nut

Mounting
Rails

PB500864

Symmetric rails, 2000 mm

Perforations	Material	Type	The reference correspond to	Reference	Supply
Not perforated	Galvanized steel	A	1 rail of 2000 mm	**NSYSDR200**	20
Not perforated	Galvanized steel	B	1 rail of 2000 mm	**NSYSDR200B**	20
Perforated	Galvanized steel	A	1 rail of 2000 mm	**NSYSDR200D**	20
Perforated	Galvanized steel	B	1 rail of 2000 mm	**NSYSDR200BD**	20
Not perforated	Zinc-coated steel	C	1 rail of 2000 mm	**AM1DL201**	6
Not perforated	Aluminium	D	1 rail of 2000 mm	**AM1EA200**	10

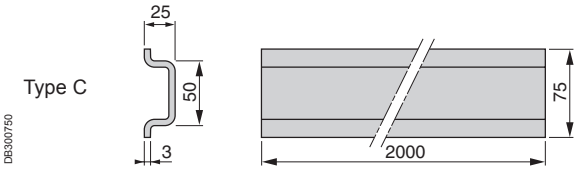


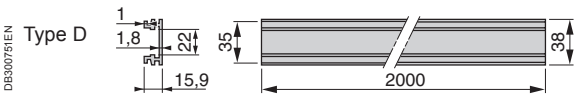
Type A Type B

Nuts			
	Type	Reference	
Clip-on nut	M4	**AF1GC4**	100
	M5	**AF1GC5**	100
	M6	**AF1GC6**	100

PB500863

Only for types A and B.





See also the accessories

PB500482

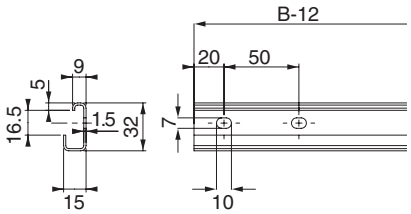
Uprights page **344**

Mounting
Rails

Telequick System

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

PB500865



DB300339EN

Asymmetric DIN rails

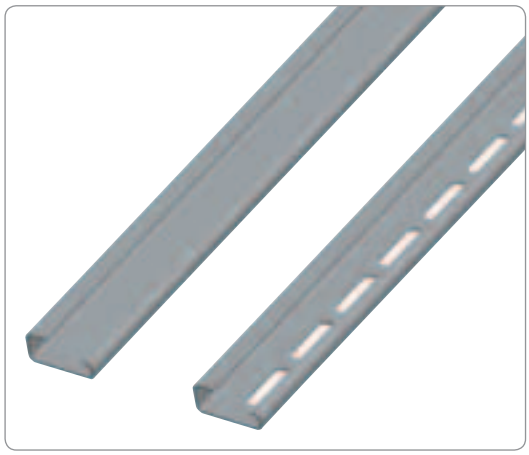
Asymmetric DIN rails for the Floor-Standing range

- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in the case of enclosure assembly.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct fixing to the structure.

References by unit. Order by multiples 20 units (20, 40, etc.).

Dimensions (mm) (B)	Rail length (mm) (B-12)	Reference
600	588	**NSYADR60**
800	788	**NSYADR80**
1000	988	**NSYADR100**
1200	1188	**NSYADR120**



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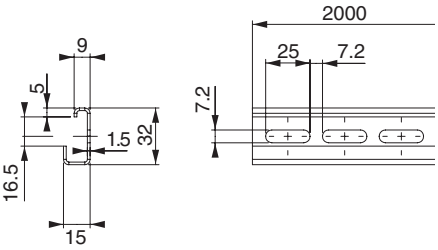


DB300340EN

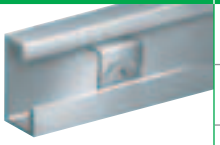
Asymmetric DIN rails, 2000 mm version

- Material: galvanised steel.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Length (mm)	Perforations	Reference
2000	Not perforated	**NSYADR200**
2000	Perforated	**NSYADR200D**

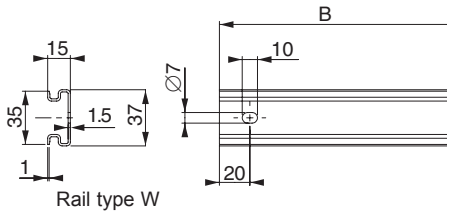
Nuts			
	Type	Reference	
 PB500866 Quarter-turn sliding nut	M4	**DZ5ME5**	100
	M5	**DZ5ME8**	100
	M6	**DZ5ME9**	100

Mounting
Rails

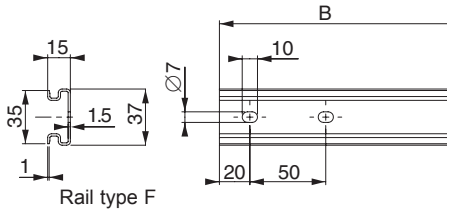
Telequick System

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

PB500868



Rail type W



DB300341EN

Rail type F

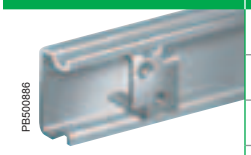
Double-profile DIN rails

- They combine the advantages of symmetric and asymmetric rails.
- They are fixed to the standard or technical uprights (see page **344**) or directly to the structure.
- Quick installation of terminals according to standard DIN 46277/1.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Enclosure type	Rail type	Enclosure dimension (mm)	Rail length - B (mm)	Reference
Wall-mounting	W	300	250	**NSYDPR25**
Wall-mounting	W	400	350	**NSYDPR35**
Wall-mounting	W	500	450	**NSYDPR45**
Wall-mounting	W	600	550	**NSYDPR55**
Wall-mounting	W	700	650	**NSYDPR65**
Wall-mounting	W	800	750	**NSYDPR75**
Floor-standing	F	600	588	**NSYDPR60**
Floor-standing	F	800	788	**NSYDPR80**
Floor-standing	F	1000	988	**NSYDPR100**
Floor-standing	F	1200	1188	**NSYDPR120**

Nuts			
	Type	Reference	
 PB500886 Quarter-turn sliding nut	M3	**AF1CF34**	100
	M4	**AF1CF34**	100
	M5	**AF1CF56**	100
	M6	**AF1CF56**	100

Mounting
Rails

PB500869

Double-profile DIN rails, 2000 mm version

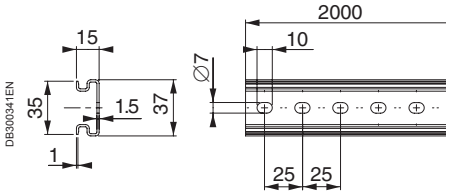
- Thickness: 1.5 mm.
- Material: galvanised steel.

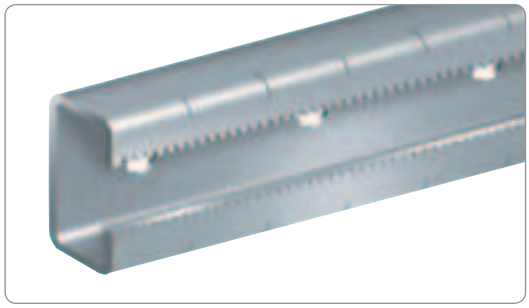
Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Length (mm)	Perforations	Reference
2000	Not perforated	**NSYDPR200**
2000	Perforated	**NSYDPR200D**
2000	Not perforated	**NSYDPR200T***

* 1 mm thickness.



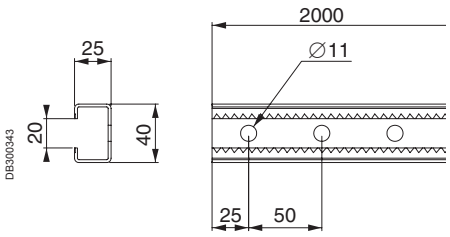

PB500872

Serrated C-shaped rail for heavy loads

- Marked in steps of 25 mm to facilitate switchgear positioning.
- Thickness: 2 mm.
- Material: zinc-coated steel.

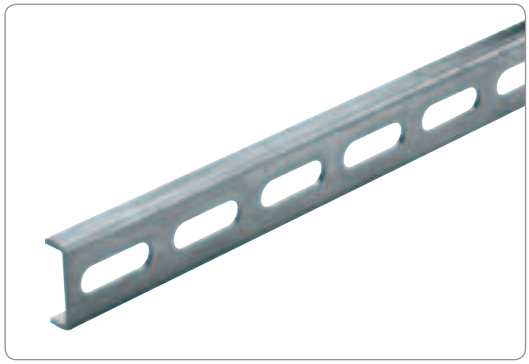
Supply: 2 rails with a length of 2 m.

Dimensions (A) (mm)	Reference
1150	AM1EC115
2000	AM1EC200



Nuts			
	Type	Reference	
PB500818 (2) (1) Quarter-turn sliding nuts	M6 (1)	**NSYSNM6**	10
	M8 (1)	**NSYSNM8**	10
	M6 (2)	**NSYSNSM6**	10
	M8 (2)	**NSYSNSM8**	10

Mounting
Rails


PB500873

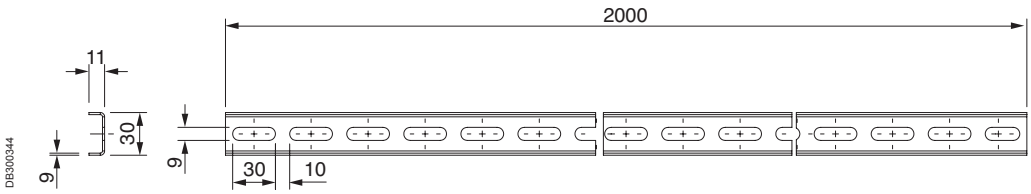
U-shaped rail

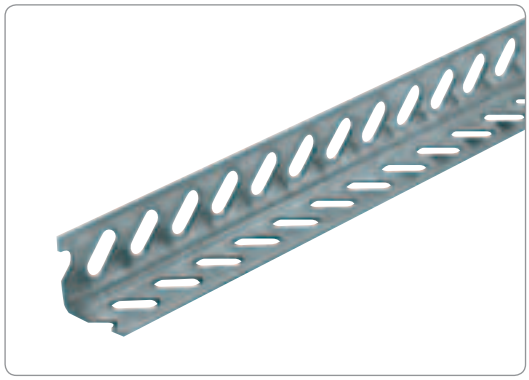
- Universal rails with elongated drill holes with a width of 8.5 mm which can house M4, M5 and M6 caged nuts.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	**NSYCUT30**




PB500874

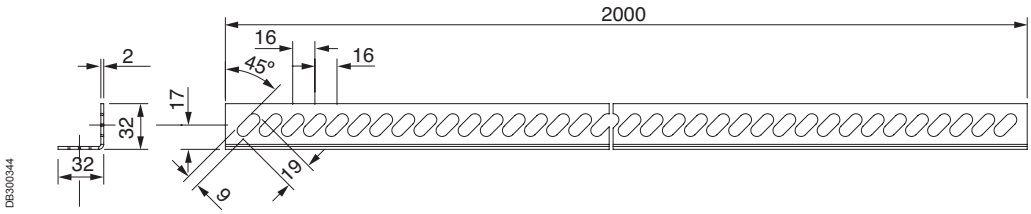
L-shaped rail

- Universal rails with elongated drill holes with a width of 8.5 mm which allow housing of M4, M5 and M6 caged nuts.
- Material: galvanised steel.
- Thickness: 2 mm.

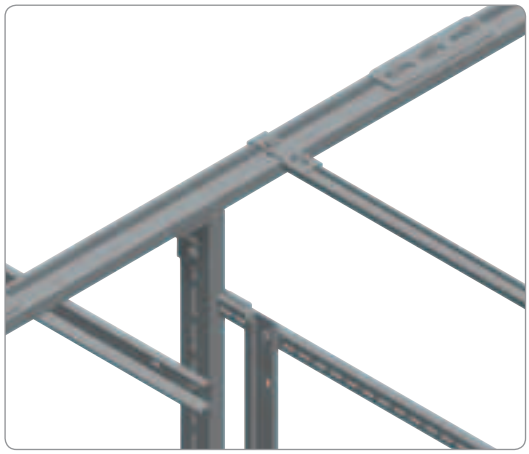
Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	**NSYAT32**



Mounting
Rails


PB500509

Connectors for symmetric C-shaped rails

- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.
- The fixing between connectors and rails is performed using combiplas nuts.

Examples of combinations with connectors for symmetric C-shaped rails

PB500870

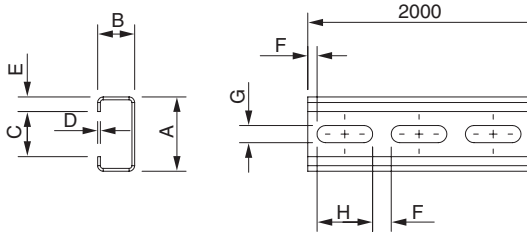
Symmetric C-shaped rails

- Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
- They are fixed to the structure and to one another by means of fixing elements.
- Material: galvanised steel.

References by unit. Order by multiples of the units specified in the supply.

Rail type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Supply	Reference
C20 (1)	21	11	10	1.5	5.5	-	-	-	20	**NSYCN20**
C40 (1)	40	20	24	1.5	8	-	-	-	20	**NSYCN40**
C60 (1)	60	30	36	2	12	-	-	-	10	**NSYCN60**
C20	21	11	10	1.5	5.5	5	6.2	15	20	**NSYCNT20**
C40	40	20	24	1.5	8	10	8.5	30	20	**NSYCNT40**
C60	60	30	36	2	12	10	10.5	30	10	**NSYCNT60**

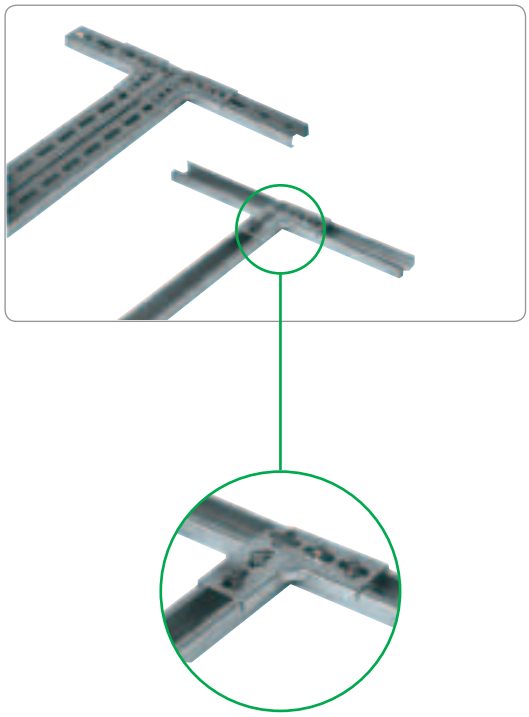
(1) Not perforated.



DB300342

Nuts				
	Type	Rail type	Reference	
PB500871 Combiplas nut	M3	C20	-	-
	M4		**NSYBN204**	100
	M6		**NSYBN206**	100
	M4	C40	**NSYBN404**	50
	M6		**NSYBN406**	50
	M8		**NSYBN408**	50
	M6	C60	**NSYBN606**	20
	M8		**NSYBN608**	20
	M10		**NSYBN610**	20
PB500871 Metal sliding nut	M4	C20	**NSYB204**	100
	M4	C40	**NSYB404**	100
	M6	C60	**NSYB406**	100

Mounting
Rails


PB500875

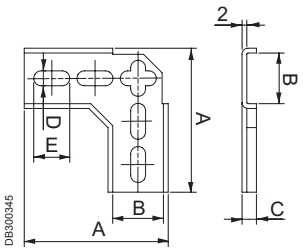
EMA connectors

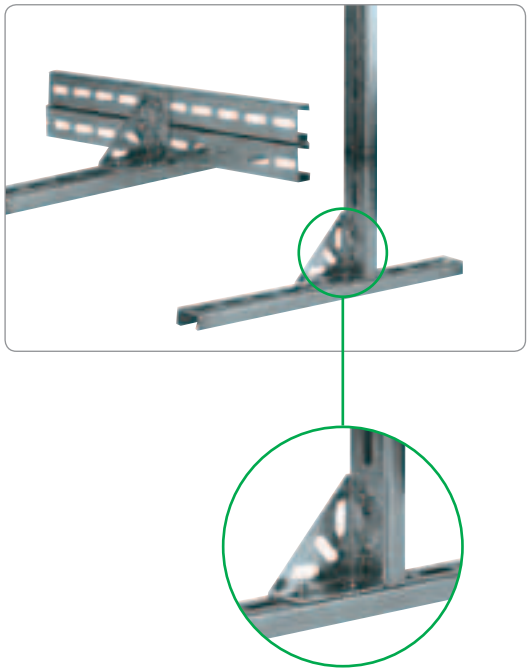
- The EMA connectors are used to joint two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.
- Material: zinc-coated steel.
- Thickness: 2 mm.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
60	21.3	6	6.2	15	**NSYEMA20**
100	40.3	10	8.5	25	**NSYEMA40**




PB500876

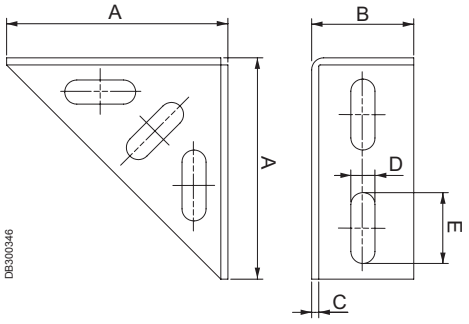
EVA connectors

- The EVA connectors are used to join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.
- Material: zinc-coated steel.

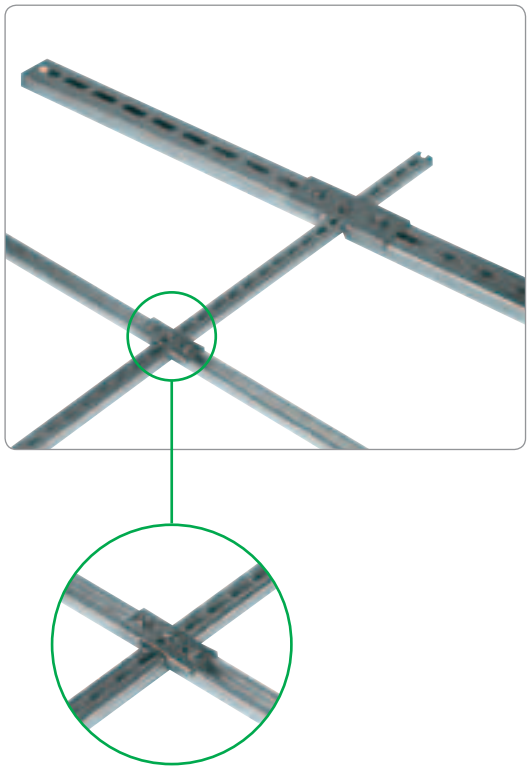
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
43	19	2	6.2	15	**NSYEVA20**
78	36	2.5	8.5	25	**NSYEVA40**



Mounting
Rails


PB500877

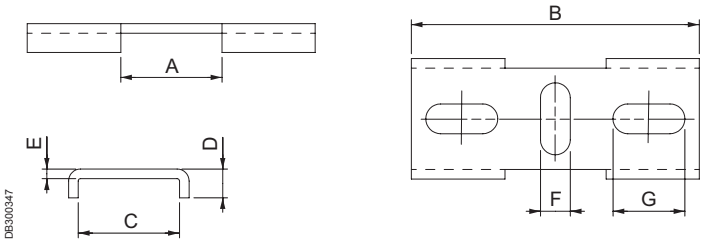
UCA connectors

- The UCA connectors are used to join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
- Material: zinc-coated steel.

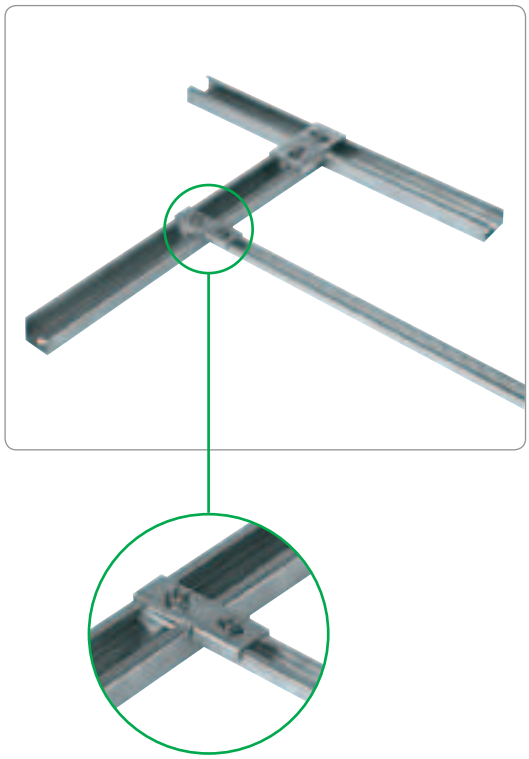
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	60	21.3	6	2	6.2	15	**NSYUCA22**
40.3	116	40.3	10	2.5	8.5	25	**NSYUCA44**



DB300347


PB500878

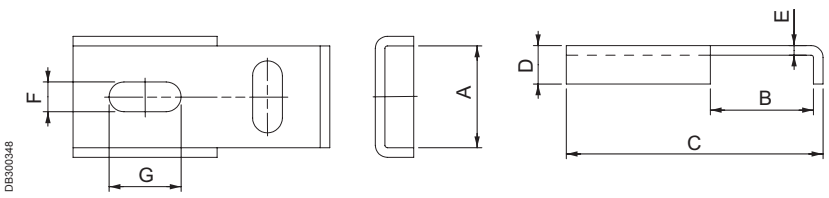
UTA connectors

- The UTA connectors are used to create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames.
- The UTA42 connectors type allows C20 rails to be joined with C40 rails.
- Material: zinc-coated steel.

Supply: 20 units.

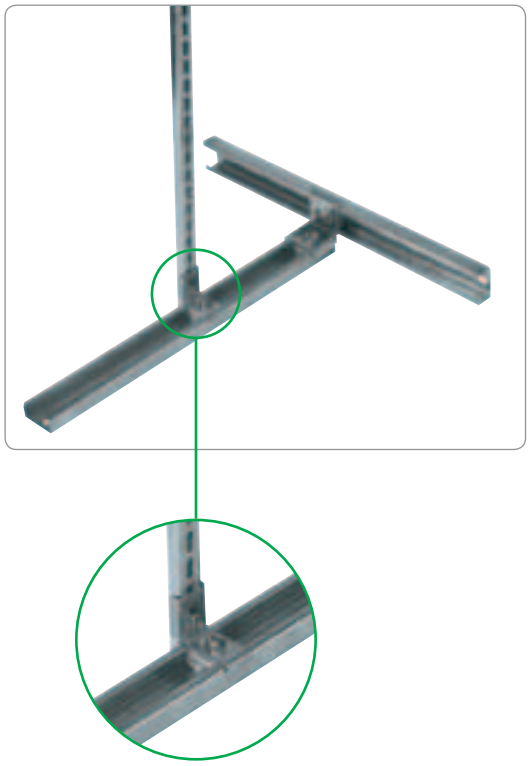
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	21.5	53.5	8	2	6.2	15	**NSYUTA22**
21.3	40.5	72.5	8	2	6.2	15	**NSYUTA42**
40.3	40.5	81	10	2.5	8.5	25	**NSYUTA44**



DB300348

Mounting
Rails


PB500879

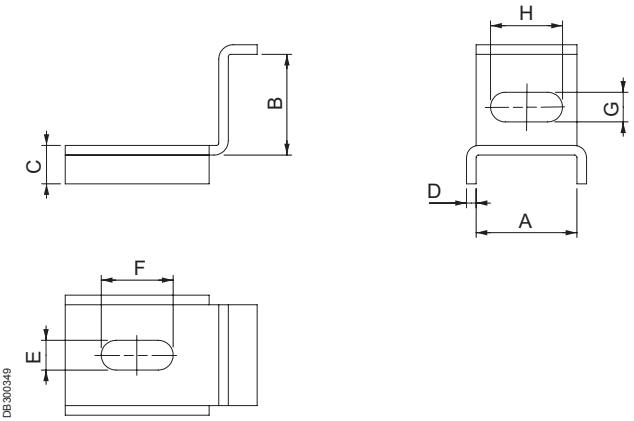
ECA connectors

- The ECA connectors are used to form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes.
- The ECA42 connector type makes it possible to join C20 rails with C40 rails.
- Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Reference
21.3	21.5	8	2	6.2	15	6.2	15	**NSYECA22**
21.3	40.5	8	2	6.2	15	6.2	13	**NSYECA42**
40.3	40.5	10	2.5	8.5	25	8.5	25	**NSYECA44**



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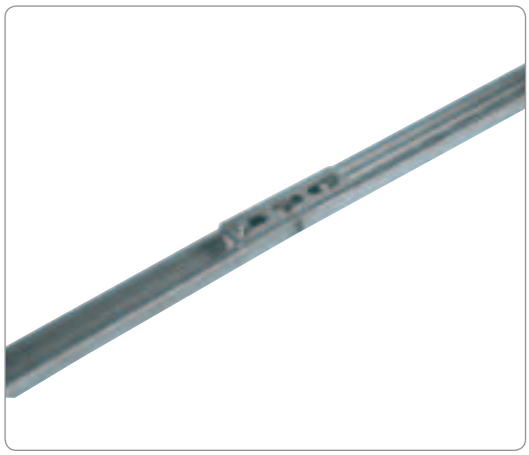

PB500880

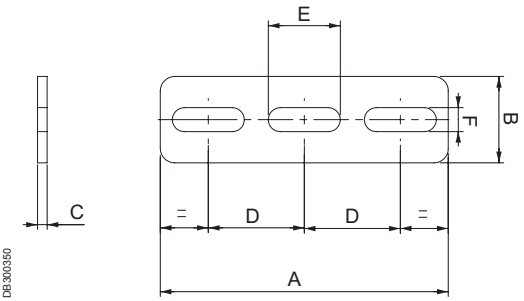
UR connectors

- The UR connectors are used for rectilinear joining of symmetric C-shaped rails.
- Recommended when the standard length is not sufficient or for maximising fractions.
- Material: zinc-coated steel.

Supply: 20 units.

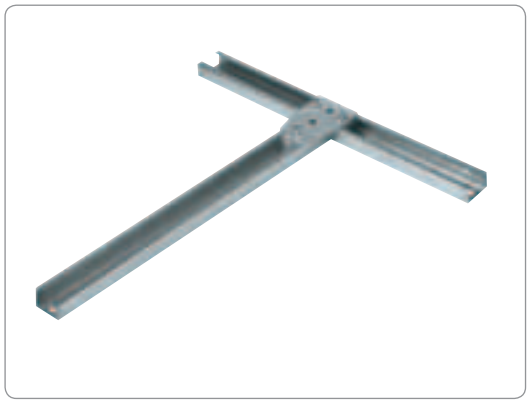
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
60	18	2	20	15	5	**NSYUR20**
130	36	3	40	30	10	**NSYUR40**
130	55	3	40	30	10	**NSYUR60**



DB300350

Mounting
Rails



PB500881

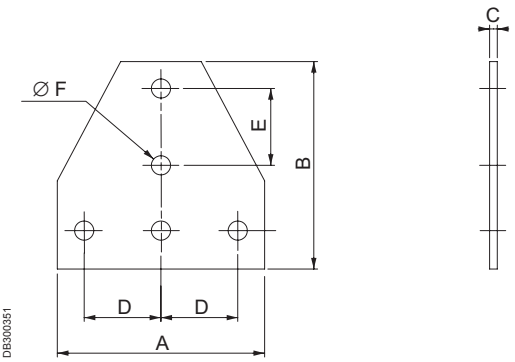
UT connectors

- The UT connectors are used to form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.
- Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
54	54	2	20	20	5	**NSYUT20**
60	80	2	20	25	8	**NSYUT40**
80	110	2	20	29	10	**NSYUT60**



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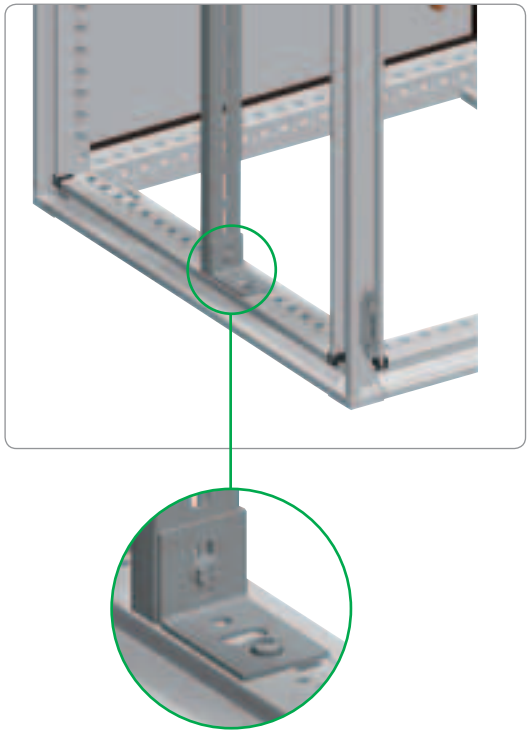


PB500883

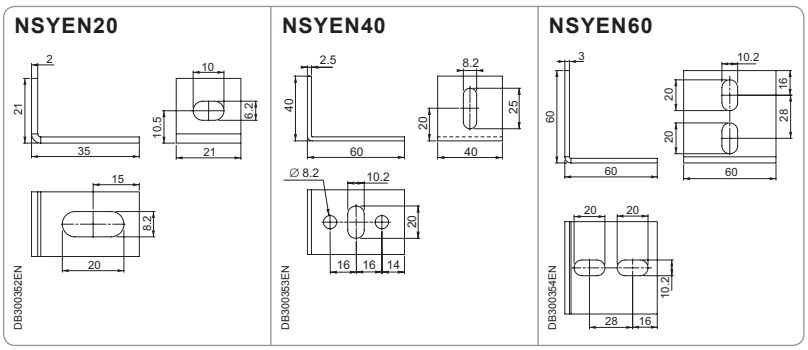
EN connectors

- The EN connectors are used to create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.
- Material: zinc-coated steel.

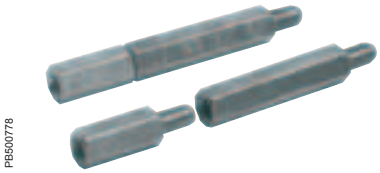
Supply: 20 units.

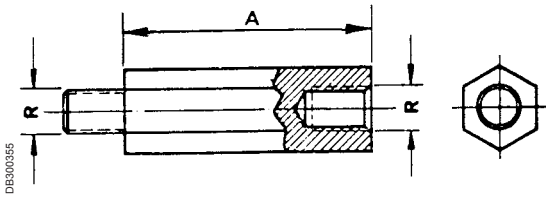
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

Reference
NSYEN20
NSYEN40
NSYEN60



Mounting
Rails





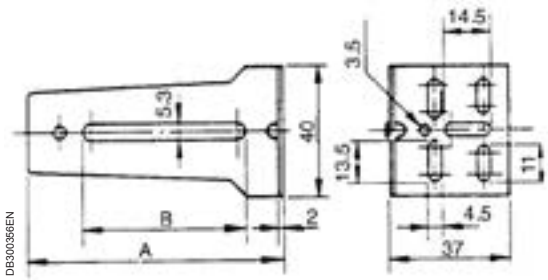
Hexagonal spacers

- Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation.
- Their assembly requires M6 or M8 caged nuts.

Supply: 100 hexagonal connectors.

References by unit. Order by multiples of 100 units (100, 200, 300, etc.).

Spacer height (mm) (A)	Thread type (R)	Reference
10	M5	**NSYE1025**
15	M5	**NSYE1525**
20	M5	**NSYE2025**
10	M6	**NSYEX106**
12	M6	**NSYEX126**
14	M6	**NSYEX146**
16	M6	**NSYEX166**
18	M6	**NSYEX186**
20	M6	**NSYEX206**
30	M6	**NSYEX306**
40	M6	**NSYEX406**
50	M6	**NSYEX506**
100	M6	**NSYEX1006**
15	M8	**NSYEX158**
20	M8	**NSYEX208**
30	M8	**NSYEX308**
40	M8	**NSYEX408**
50	M8	**NSYEX508**
60	M8	**NSYEX608**
100	M8	**NSYEX1008**



ETU modular spacers

- Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
- Material: zinc-coated steel.

Supply: 20 units.

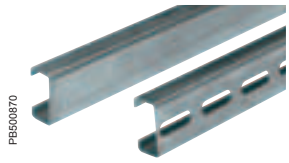
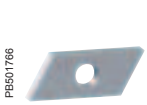
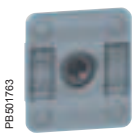
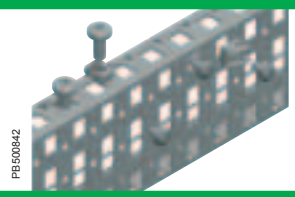
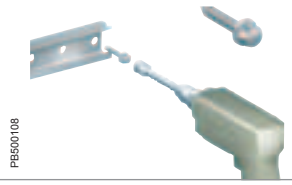
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	Reference
48	25	**NSYETU48**
58	25	**NSYETU58**
79	55	**NSYETU79**
118	55	**NSYETU118**

Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204

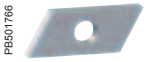
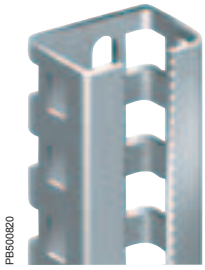
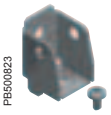
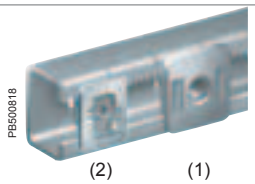
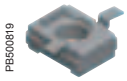
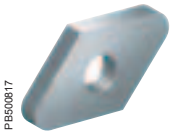
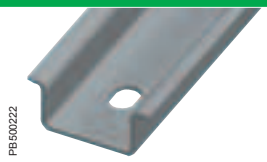
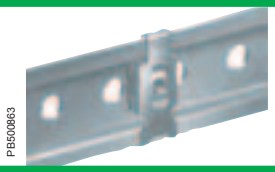
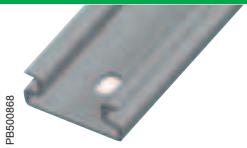
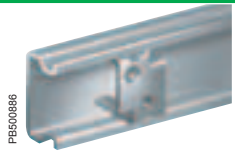
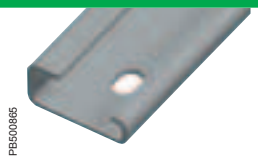
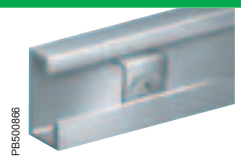
Mounting
Nuts and screws for rails

References by unit. Order by multiples of the units specified in the supply.

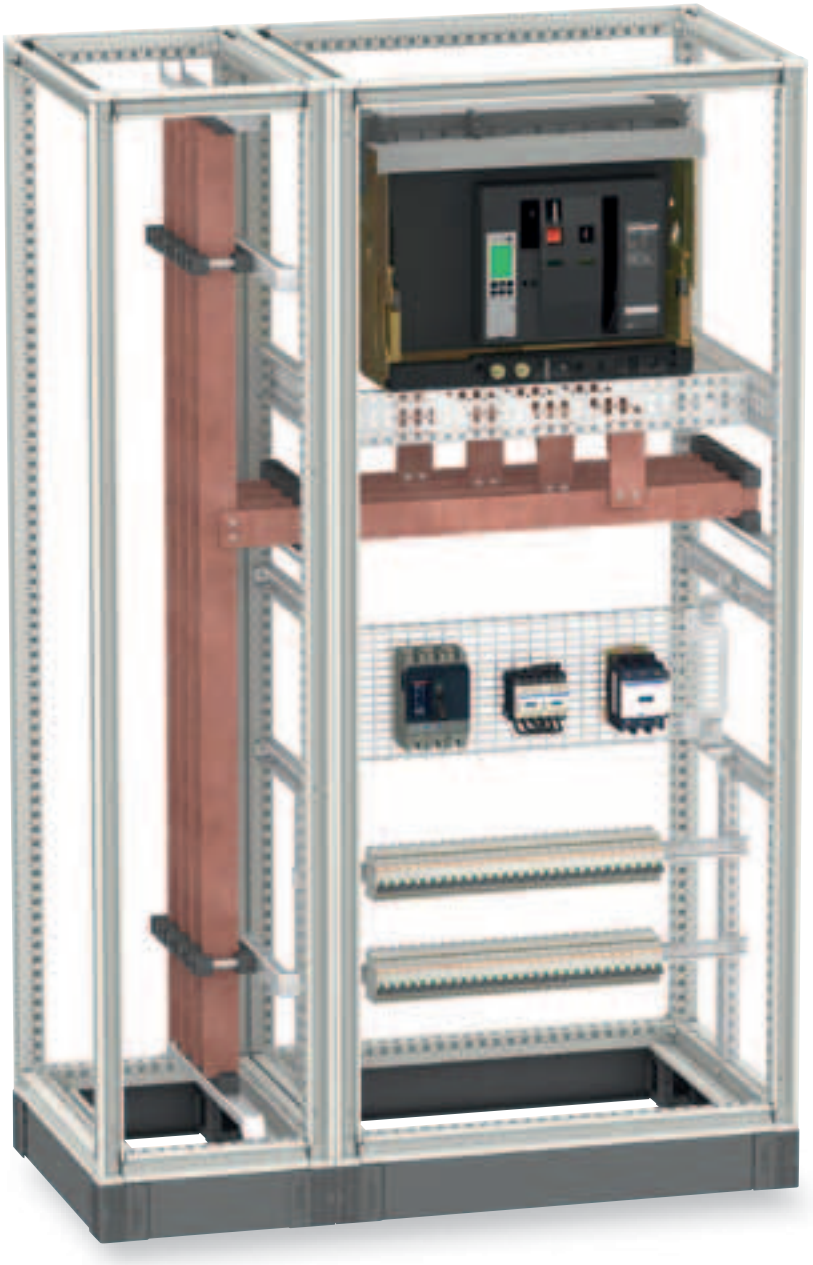
Usage	Description			Reference	Supply
Telequick mounting plates	**Clip-on nuts for Telequick mounting plates**				
PB500107	PB501768	Clip-on nut M3		**AF1EA3**	100
		Clip-on nut M4		**AF1EA4**	100
		Clip-on nut M5		**AF1EA5**	100
		Clip-on nut M6		**AF1EA6**	100
C - shaped rail - 20/40/60 mm	**Combiplas slide nut**	**Nut**	**Rail type**	**Reference**	**Supply**
 PB500870	PB500871	M4	C20	**NSYBN204**	100
		M6		**NSYBN206**	100
		M4	C40	**NSYBN404**	50
		M6		**NSYBN406**	50
		M8		**NSYBN408**	50
		M6	C60	**NSYBN606**	20
		M8		**NSYBN608**	20
		M10		**NSYBN610**	20
	PB500871	M4	C20	**NSYB204**	100
		M4	C40	**NSYB404**	100
		M6	C60	**NSYB406**	100
All nuts	**Screws with captive washer Hexagonal head**			**Reference**	**Supply**
 PB501766  PB501763 PB501764	PB501813	Screws M4 x 10 mm		**AF1VA410**	100
		Screws M4 x 16 mm		**AF1VA416**	100
		Screws M5 x 12 mm		**AF1VA512**	100
		Screws M5 x 18 mm		**AF1VA518**	100
		Screws M6 x 12 mm		**AF1VA612**	100
		Screws M6 x 18 mm		**AF1VA618**	100
		Screws M8 x 20 mm		**AF1VC820**	100
Nuts and 6 mm Spacial enclosures holes	**Torx screws with captive washer Hexagonal head**			**Reference**	**Supply**
 PB500842	PB500856	Torx T30 M6 x 16 mm		**NSYST30M6**	100
		Torx T40 M8 x 16 mm		**NSYST30M8**	100
		Torx T30 M6 x 12 mm self-tapping		**NSYST30M6S**	100
Self-tapping screw				**Reference**	**Supply**
 PB500108	PB501855	Screws M5 x 13 mm		**NSYS13M5HS**	100
		Screws M5 x 16 mm		**NSYS16M5HS**	100
		Screws M6 x 16 mm		**NSYS16M6HS**	100

Mounting
Nuts and screws for rails

References by unit. Order by multiples of the units specified in the supply.

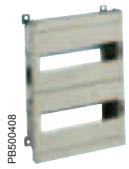
Usage	Description		Reference	Supply
Mounting uprights For wall-mounting enclosures	**Fixings and nuts for aluminium uprights**			
PB500105	PB501859	Brass nuts to fix the upright to the enclosures	**NSYAMCSF**	4
	 PB501766	Sliding nuts M4	**NSYNM4**	100
		Sliding nuts M5	**NSYNM5**	100
		Sliding nuts M6	**NSYNM6**	100
2 x serrated mounting uprights Foor floor-standing enclosures	**Fixings and nuts for serrated uprights**		**Reference**	**Supply**
 PB500820	 PB500823	Fixing brackets	**NSYMFB**	4
	 PB500818 (2) (1)	(1) 1/4 turn M6	**NSYSNM6**	10
		(1) 1/4 turn M8	**NSYSNM8**	10
		(2) Serrated 1/4 turn M6	**NSYSNSM6**	10
		(2) Serrated 1/4 turn M8	**NSYSNSM8**	10
	 PB500819	Removable nut M6	**NSYCNM6**	50
		Removable nut M8 Cage nut M6 Cage nut M8	**NSYCNM8** **NSYCNFM6** **NSYCNFM8**	50 50 50
2 x standard mounting uprights For floor-standing enclosures	**Flat nuts for standard uprights**		**Reference**	**Supply**
PB500482	 PB500817	Flat nut M6	**NSYFNM6**	50
		Flat nut M8	**NSYFNM8**	50
35 x 15 mm symmetric DIN rail	**Clip nut for symmetric DIN rail**		**Reference**	**Supply**
 PB500222	 PB500863	Clip nut M4	**AF1CG4**	100
		Clip nut M5	**AF1CG5**	100
		Clip nut M6	**AF1CG6**	100
35 mm double profile DIN rail	**Quarter turn nut for double profile DIN rail**		**Reference**	**Supply**
 PB500868	 PB500886	Nut M3 + M4	**AF1CF34**	100
		Nut M5 + M6	**AF1CF56**	100
35 mm asymmetric DIN rail	**Quarter turn nut for asymmetric DIN rail**		**Reference**	**Supply**
 PB500865	 PB500866	Nut M4	**DZ5ME5**	100
		Nut M5	**DZ5ME8**	100
		Nut M6	**DZ5ME9**	100

Power distribution accessories

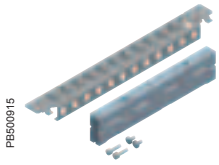


DB404943

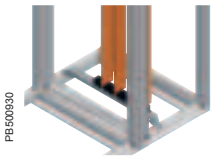
Power distribution accessories
Contents


PB500408

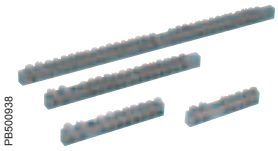
Modular distribution 382


PB500915

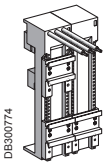
Busbars and blocks 396


PB500930

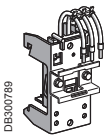
Busbar support accessories 401


PB500938

Distribution blocks 406


DB300774

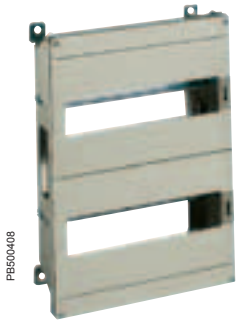
Plates for mounting on 60 mm busbar 409


DB300789

Pre-assembled panel busbar system AK5 413

Power distribution
Modular distribution

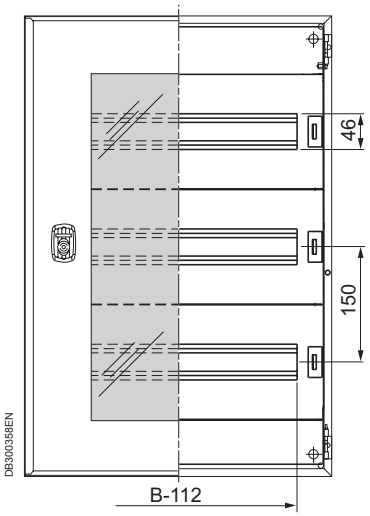
PB500887


PB500408

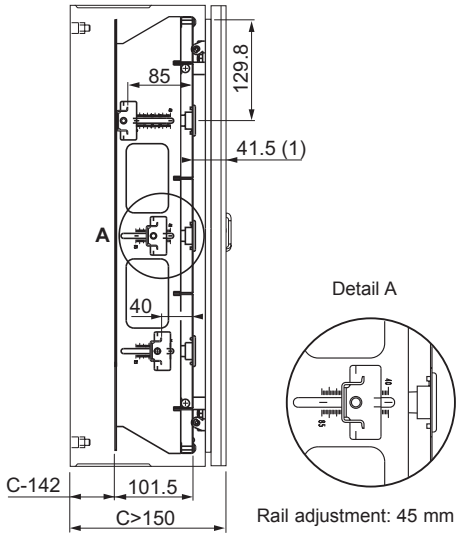
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓							

DLM modular chassis

- The chassis consists of metal cut-out front panels, which can be clipped on without screws, structured finish, epoxy-polyester powder, RAL-7035 grey, on a rigid galvanised-steel structure.
- The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.



Front-panel cut-out
(see page **383**)



Rail adjustment: 45 mm

PB500408

PB500888

PB500889

Dimensions (mm)		Number of modules*	Modular chassis reference	Plain front plate reference	Plain chassis reference
Height	Width				
400	300	24	**NSYDLM24**	**NSYCTL300DLM**	**NSYPMP300DLM**
500	400	48	**NSYDLM48**	**NSYCTL400DLM**	**NSYPMP400DLM**
600	400	48	**NSYDLM48P**	**NSYCTL400DLM**	**NSYPMP400DLM**
600	600	84	**NSYDLM84P**	**NSYCTL600DLM**	**NSYPMP600DLM**
700	500	66	**NSYDLM66**	**NSYCTL500DLM**	**NSYPMP500DLM**
700	500	88	**NSYDLM88**	**NSYCTL500DLM**	**NSYPMP500DLM**
800	600	84	**NSYDLM84**	**NSYCTL600DLM**	**NSYPMP600DLM**
800	600	112	**NSYDLM112**	**NSYCTL600DLM**	**NSYPMP600DLM**
1000	600	168	**NSYDLM168**	**NSYCTL600DLM**	**NSYPMP600DLM**
1000	800	234	**NSYDLM240**	**NSYCTL800DLM**	**NSYPMP800DLM**

* 1 module = 2 steps = 18 mm.

Power distribution
Modular distribution

Number of modules per chassis in steps of 18 mm

DB300360

Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

*For references **NSYDLM48**, **NSYDLM48P** and **NSYDLM84** on Spacial wall-mounting enclosures the central row can only receive modules at the height of the lock when installed at the front of the enclosure. In this case, 1 module is sealed up (check our technical instructions).

PB500888

Plain front panel

- Metal front panels to be clipped on without screws, structured finish, 100% polyester powder, RAL-7035 grey colour.
- Nominal height: 150 mm.

Composition: 2 plain front panel and fixings.

Enclosure width (mm)	No. of modules	Reference
300	12	**NSYCTL300DLM**
400	16	**NSYCTL400DLM**
500	22	**NSYCTL500DLM**
600	28	**NSYCTL600DLM**
800	40	**NSYCTL800DLM**

PB500889

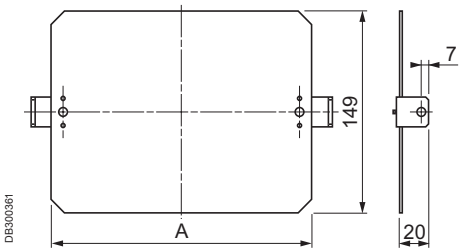
Plain mounting plate

- Mounting plate for fixing non-modular devices.
- Material: galvanised steel, 2 mm thick.
- Nominal height: 150 mm.

Composition: 2 plain chassis and fixings.

Enclosure width (mm)	A (mm)	Reference
300	208	**NSYPMP300DLM**
400	308	**NSYPMP400DLM**
500	408	**NSYPMP500DLM**
600	508	**NSYPMP600DLM**
800	708	**NSYPMP800DLM**

DB300361



Sheet, 2 mm thick

Power distribution
Modular distribution

PB500381

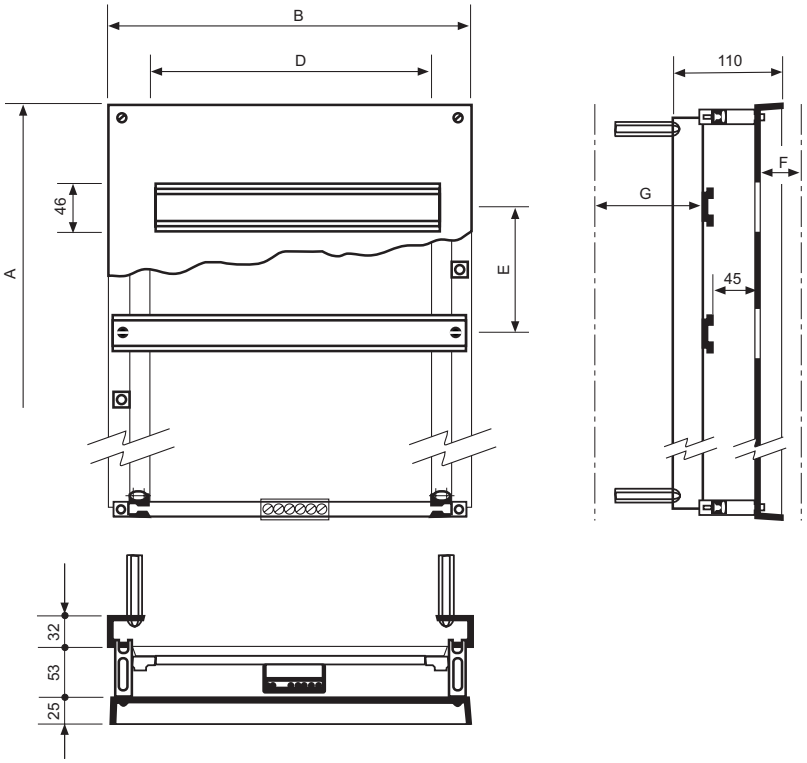
NSYCRN64150P + NSYDLCR64

Range	CRN	S3D*	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

DL modular chassis

Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts. Manufactured from sheet steel. Metal protective cover plate, RAL-7035 colour.

- Distance between device rail and protective cover plate: 45 mm.



*For Spacial S3D please consult us.

Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

Reference	No. of 18-mm modules	No. of rows	Approx. weight (kg)	For coupling to the enclosures with normal or transparent door			Dimensions (mm)					
				Height	Width	Depth	A	B	D	E	F**	G
NSYDLCR18	18	2	1.2	300	250	150*	255	205	162	120	41	51
NSYDLCR24	24	2	1.7	400	300	150*	355	255	216	160	41	51
NSYDLCR36	36	3	1.7	400	300	150*	355	255	216	110	41	51
NSYDLCR48	48	3	2.4	500	400	150*	455	355	288	130	41	51
NSYDLCR64	64	4	3.3	600	400	150/200	555	355	288	130	41	51/101
NSYDLCR88	88	4	4.5	600	500	150/200	555	455	396	130	41	51/101
NSYDLCR110	110	5	5.1	700	500	200	655	455	396	125	41	101
NSYDLCR135	135	5	7.5	800	600	200	755	555	486	140	41	101

* For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. **NSYEX608**) are to be ordered separately (4 per chassis).
** For enclosures with transparent door, the F dimension is reduced by 4 mm.

See also the accessories

PB500888

Plain front plates page **383**

PB500890

Blanking plate page **385**

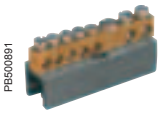
PB500890

Blanking plate

Blanking plate made from fire-proof insulating material, for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.

Length (mm)	N°. of modules	RAL	Reference
72	4	7032	**NSYATP72G**
72	4	7035	**NSYATP72M**
72	4	7035	**NSYATP72MS**
108	6	7035	**NSYATP6DTM**
432	24	7035	**NSYATP24DTM**
1100	-	7035	**NSYATPUND**

See also the accessories


PB500891

Connecting strips page **408**

Power distribution
Modular distribution

PB500524

Modular distribution system

- The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.
- The accessories are installed on a chassis mounted at the front of the enclosure, such as for example:

– Cover plates for enclosures with widths of 600 and 800, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure.
– Material support rails, fixed or with adjustable depth.
– Chassis supports for coupling non-modular equipment.
– Supports for fixing cable-distribution cable ducts.

- Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Modular distribution accessories

- Schneider Electric has developed a broad range of accessories for the construction of modular distribution frames, meeting the needs of the market.
- The new range has a coupling chassis, installed at the front of the enclosure, allowing the installation of:

– Cover plates with lengths of 600 and 800 mm, plain and cut-out, screwed on and hinged, with heights of 150, 200, 300, 400, 450 and 600 mm.
– Material support rails, fixed or with adjustable depth.
– Mounting plate supports, plain or perforated, for installation of non-modular devices.

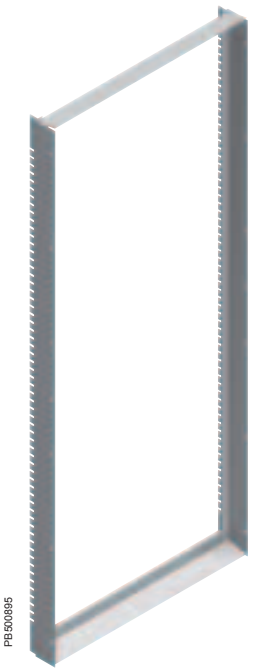
- For the construction of double modular distribution frames or with busbar chamber, specific coupling chassis have been created for these applications.

PB500892

PB500893

PB500894

Power distribution
Modular distribution


PB500895

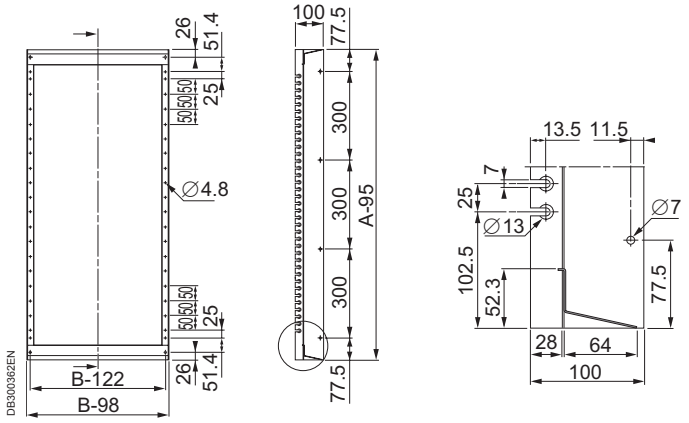
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Single-chassis coupling set

- Chassis made up of vertical uprights and horizontal crossbars:
  – **Spacial SF:** they are screwed to the front frame of the enclosure.
  – **Spacial SM:** they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page **355**.
- Easy access to the inside for component installation.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

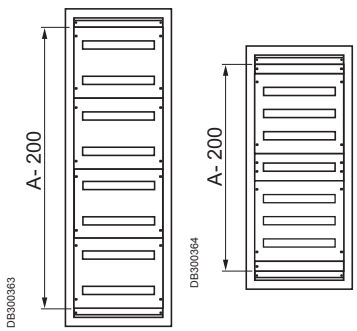
Supply: two vertical uprights, two horizontal crossbars and fixing elements.

Nominal dimensions (mm)		Maximum no.of 18-mm modules	Reference
Height (A)	Width (B)		
1200	600	144	**NSYCSH126**
	800	216	**NSYCSH128**
1400	600	192	**NSYCSH146**
	800	288	**NSYCSH148**
1600	600	216	**NSYCSH166**
	800	324	**NSYCSH168**
1800	600	240	**NSYCSH186**
	800	360	**NSYCSH188**
2000	600	288	**NSYCSH206**
	800	432	**NSYCSH208**

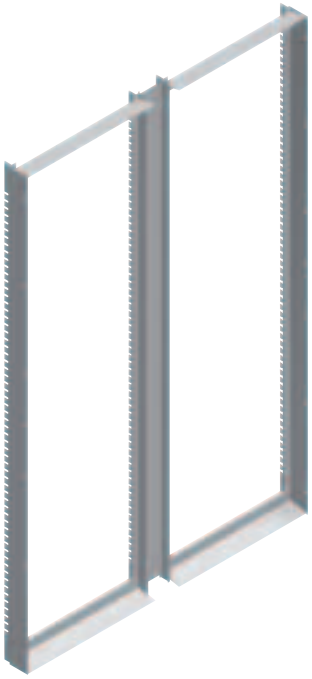


Example of the combination of cut-out, screwed-on cover plates and single-chassis coupling set

Nominal dimensions (mm)		No. of 18-mm modules	Reference		
Height (A)	Width (B)		1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
1800	600	240	1 x **NSYCSH186**	5 x **NSYMUC306**	1 x **NSYADC16**



Power distribution
Modular distribution


PB500896

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Double-chassis coupling set

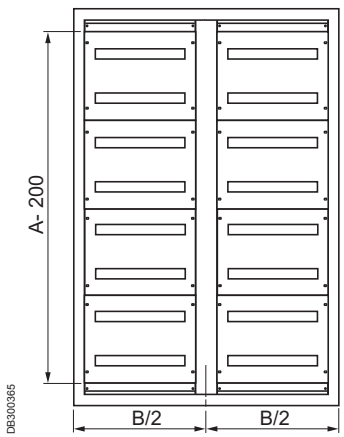
- Mounting on enclosures with widths of 1200 and 1600 mm.
- Installation on **Spacial SM**: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page **355**.
- Set made up of two modular chassis with an intermediate central upright.
- **Spacial SM:** for enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary.
- **Spacial SF:** the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page **342**.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: two single-chassis coupling sets, one intermediate central upright and fixing elements.

Spacial dimensions (mm)		Set made up of columns with a width (mm)	Maximum no. of 18-mm modules	Reference
Height	Width			
1400	1200	600 + 600	384	**NSYDCSH1412**
1600	1200	600 + 600	432	**NSYDCSH1612**
1800	1200	600 + 600	480	**NSYDCSH1812**
	1600	800 + 800	720	**NSYDCSH1816**
2000	1200	600 + 600	576	**NSYDCSH2012**
	1600	800 + 800	864	**NSYDCSH2016**

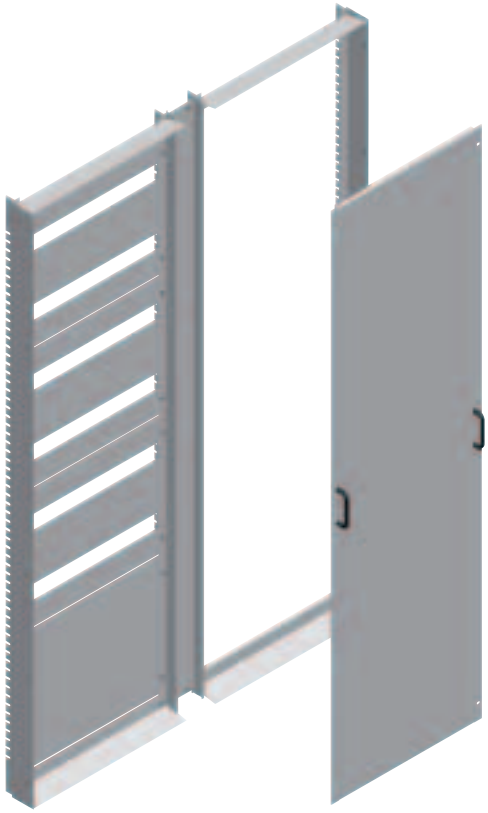
Example of the combination of cut-out, screwed-on cover plates and double-chassis coupling set

Spacial dimensions (mm)			No. of 18-mm modules	Reference		
Height (A)	Width (B)	Depth (C)		1 double-chassis coupling set	12 screwed-on cut-out 300-mm cover plates	Double-door enclosure adaptation kit
2000	1200	500	576	1 x **NSYDCSH2012**	12 x **NSYMUC306**	**NSYSMP2D5**
	1600	500	864	1 x **NSYDCSH2016**	12 x **NSYMUC308**	-



DB300365

Power distribution
Modular distribution


PB500899

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Chassis-coupling set with zone for busbars

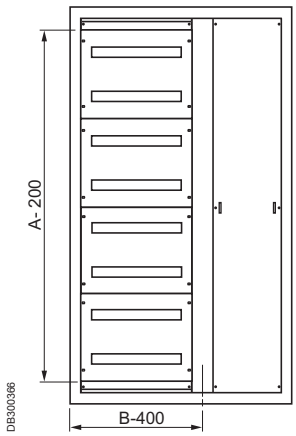
- Set for mounting on enclosures with widths of 1000 and 1200 mm.
- **Spacial SF:** They are screwed to the front frame enclosure.
- **Spacial SM:** They are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page **355**.
- Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply:
– One single-chassis coupling set.
– One intermediate central upright.
– One busbar blanking cover plate.
– Fixing elements.

Nominal dimensions (mm)		Set made up of columns with a width (mm)	Maximum no. of 18-mm modules	Reference
Height	Width			
1400	1000	600 + 400	192	**NSYCSHB1410**
	1200	800 + 400	288	**NSYCSHB1412**
1600	1000	600 + 400	216	**NSYCSHB1610**
	1200	800 + 400	324	**NSYCSHB1612**
1800	1000	600 + 400	240	**NSYCSHB1810**
	1200	800 + 400	360	**NSYCSHB1812**
2000	1000	600 + 400	288	**NSYCSHB2010**
	1200	800 + 400	432	**NSYCSHB2012**

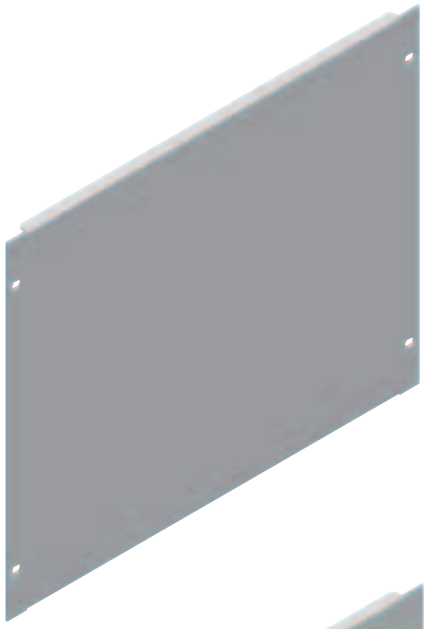
Example of the combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

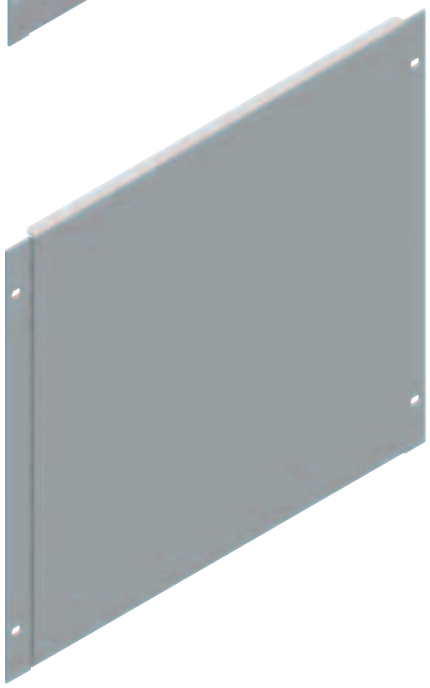
Nominal dimensions (mm)		No. of 18-mm modules	Reference		
Height (A)	Width (B)		1 chassis-coupling set with zone for busbars	5 screwed-on cut-out 300-mm cover plates	2 adjustment cover plates
1800	1000	240	1 x **NSYCSHB1810**	5 x **NSYMUC306**	1 x **NSYADC16**
1800	1200	360	1 x **NSYCSHB1812**	5 x **NSYMUC308**	1 x **NSYADC18**



DB300366

Power distribution
Modular distribution


PB500900


PB500901

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Plain cover plates

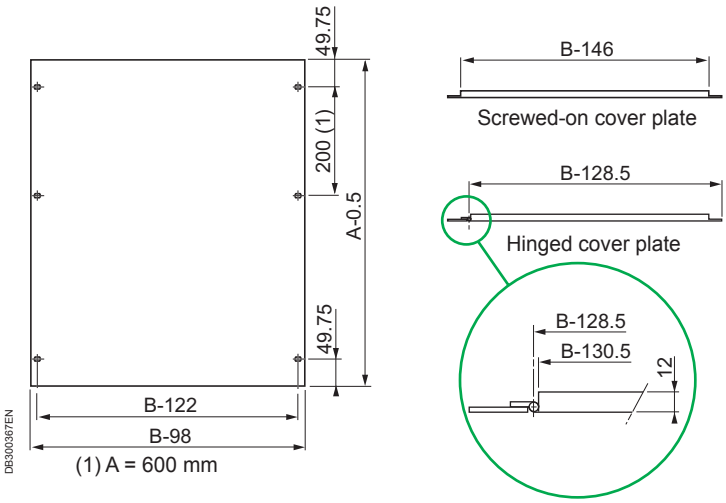
- Metal cover plates for protecting control devices.
- The cut-outs in non-modular control devices is at user's request
- Suitable by modules of 150 or 200 mm.
- Versions:

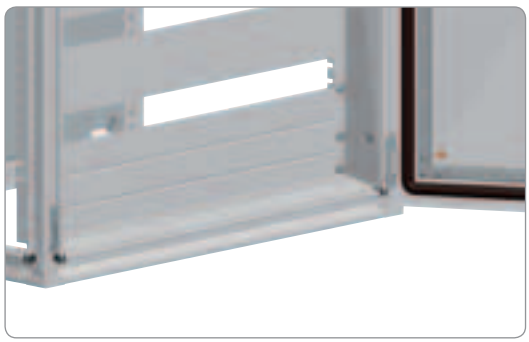
– Screwed-on plain cover plate.
– Hinged plain cover plate. 120° opening with flat hinge.

- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: one plain cover plate and fixing elements.

Nominal dimensions (mm)		Screwed-on plain cover plate reference	Hinged plain cover plate reference
Height (A)	Width (B)		
150	600	**NSYMPC156**	**NSYMPCH156**
	800	**NSYMPC158**	**NSYMPCH158**
200	600	**NSYMPC206**	**NSYMPCH206**
	800	**NSYMPC208**	**NSYMPCH208**
300	600	**NSYMPC306**	**NSYMPCH306**
	800	**NSYMPC308**	**NSYMPCH308**
400	600	**NSYMPC406**	**NSYMPCH406**
	800	**NSYMPC408**	**NSYMPCH408**
450	600	**NSYMPC456**	**NSYMPCH456**
	800	**NSYMPC458**	**NSYMPCH458**
600	600	**NSYMPC606**	**NSYMPCH606**
	800	**NSYMPC608**	**NSYMPCH608**




PB500904

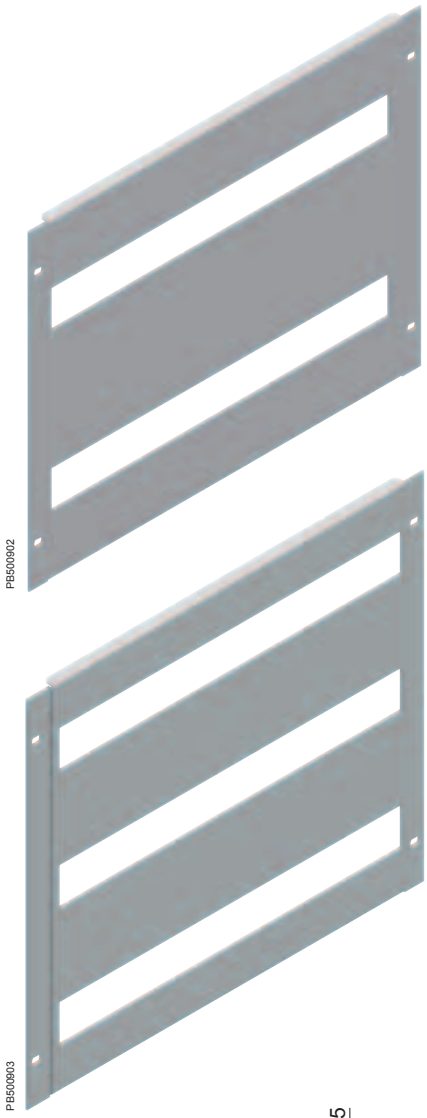
Adjustment cover plates

- Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: two adjustment cover plates and fixing elements.

Cover plate dimensions (mm)	Nominal dimensions (mm)	Reference
Height	Width	
50	600	**NSYADC16**
	800	**NSYADC18**

Power distribution
Modular distribution


PB500902

PB500903

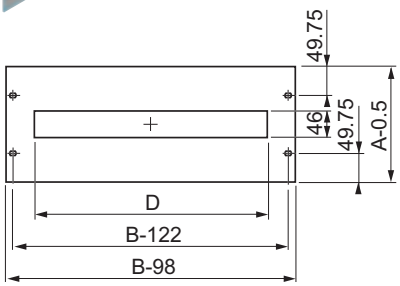
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Cut-out cover plates

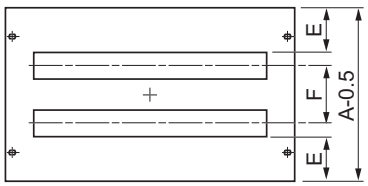
- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
  – Cover plates for 600-mm enclosures: 24 modules per row.
  – Cover plates for 800-mm enclosures: 36 modules per row.
- Versions:
  – Screwed-on cut-out cover plate.
  – Hinged cut-out cover plate. 120° opening with flat hinge.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: one cut-out cover plate and fixing elements.

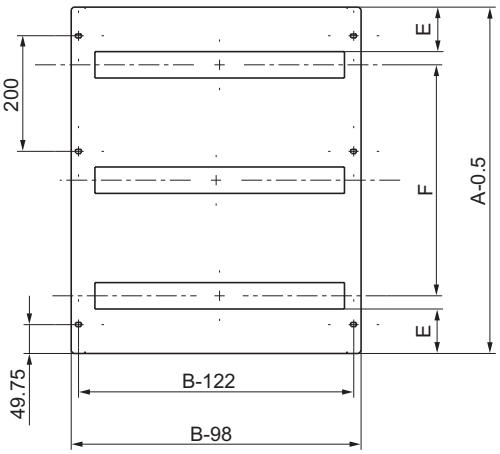
Nominal dimensions (mm)		Dimensions			No. of cut-outs	Maximum no. of 18-mm modules	Screwed-on cut-out cover plate reference	Hinged cut-out cover plate reference
Height (A)	Width (B)	D	E	F				
150	600	432	-	-	1	24	**NSYMUC156**	**NSYMUCH156**
	800	642			1	36	**NSYMUC158**	**NSYMUCH158**
200	600	432	-	-	1	24	**NSYMUC206**	**NSYMUCH206**
	800	642			1	36	**NSYMUC208**	**NSYMUCH208**
300	600	432	51.75	150	2	48	**NSYMUC306**	**NSYMUCH306**
	800	642			2	72	**NSYMUC308**	**NSYMUCH308**
400	600	432	76.75	200	2	48	**NSYMUC406**	**NSYMUCH406**
	800	642			2	72	**NSYMUC408**	**NSYMUCH408**
450	600	432	51.75	150	3	72	**NSYMUC456**	**NSYMUCH456**
	800	642			3	108	**NSYMUC458**	**NSYMUCH458**
600	600	432	76.75	200	3	72	**NSYMUC606**	**NSYMUCH606**
	800	642			3	108	**NSYMUC608**	**NSYMUCH608**



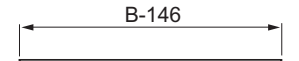
A = 150 and 200 mm



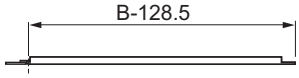
A = 300 and 400 mm



Cut-out at 200 mm when A = 600



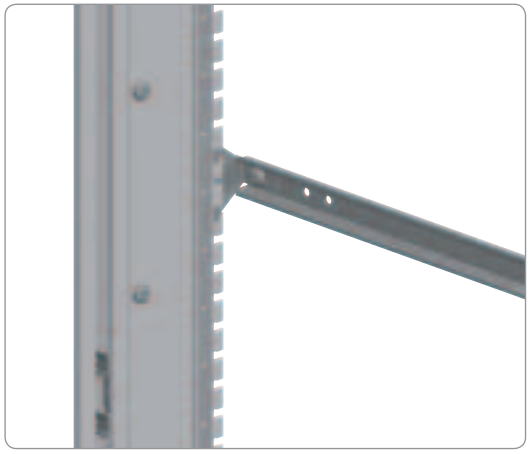
Screwed-on cover plate



DB300368EN

Hinged cover plate

Power distribution
Modular distribution


PB500907

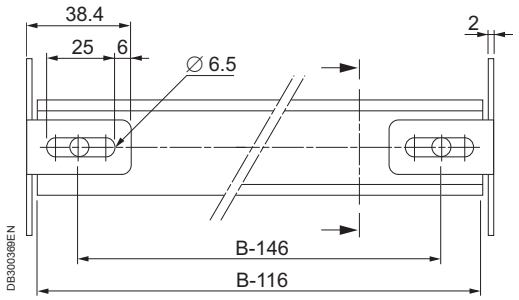
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

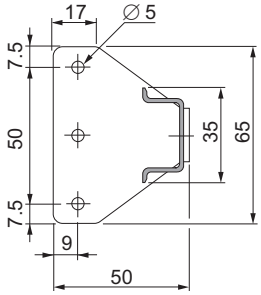
Set of fixed rail with supports

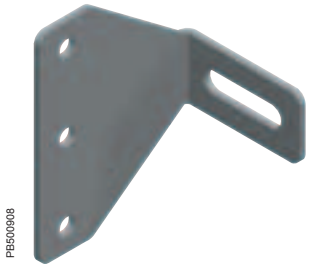
- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not.
- Maximum number of 18-mm modules:
– Enclosure width 600 mm: 24 modules.
– Enclosure width 800 mm: 36 modules.
- Mounting by screws directly on the uprights of the chassis-coupling set.
- Material: zinc-coated steel.

Supply: one DIN rail, two fixed supports and fixing elements.

Nominal dimensions (mm) Width (B)	Reference
600	**NSYMFSC60**
800	**NSYMFSC80**





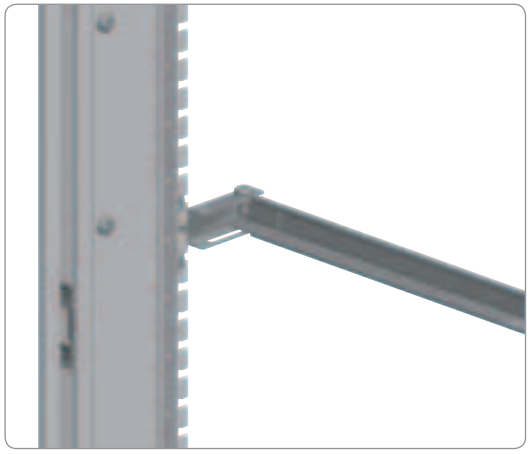

PB500908

Fixed supports with no rail

Supply: two fixed supports and fixing elements.

Reference
NSYMFS1

Power distribution
Modular distribution


PB500909

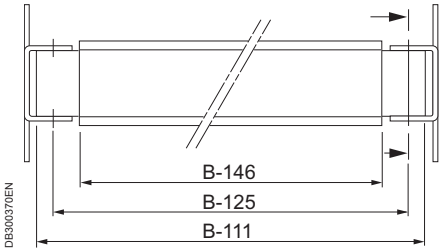
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Set of depth-adjustable rail with supports

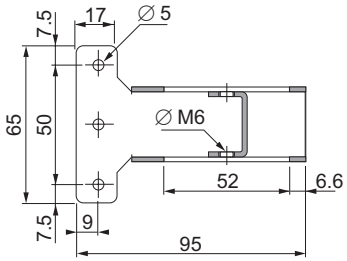
- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depth-adjustable mounting supports, for the installation of modular devices or not.
- Maximum number of 18-mm modules:
– Enclosure width 600 mm: 24 modules.
– Enclosure width 800 mm: 36 modules.
- Mounting by screws directly on the uprights of the modular chassis-coupling set.
- Material: zinc-coated steel.

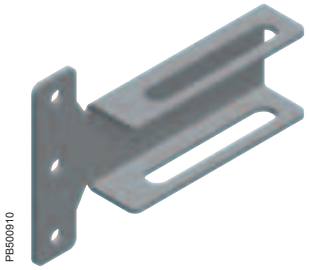
Supply: one DIN rail, two adjustable supports and fixing elements.

Nominal dimensions (mm)	Reference
Width (B)	
600	**NSYMFSC60D**
800	**NSYMFSC80D**



DB300370EN



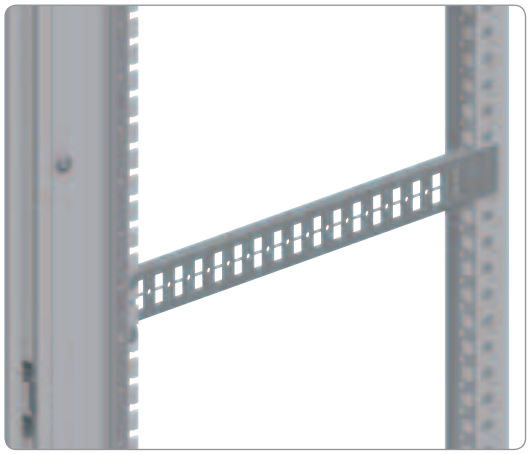

PB500910

Adjustable supports with no rail

Supply: two adjustable supports and fixing elements.

Reference
NSYMFS1D

Power distribution
Modular distribution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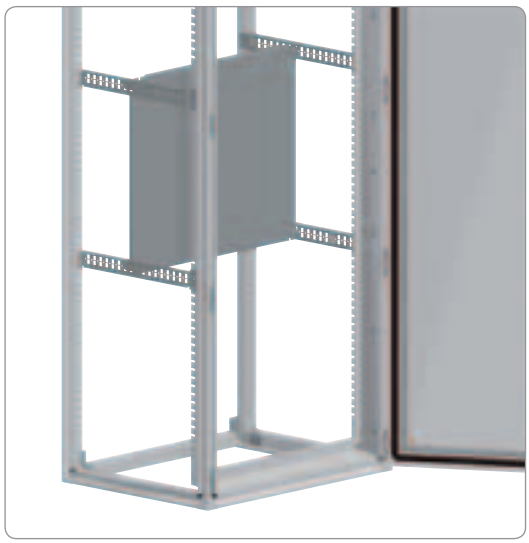

PB500912

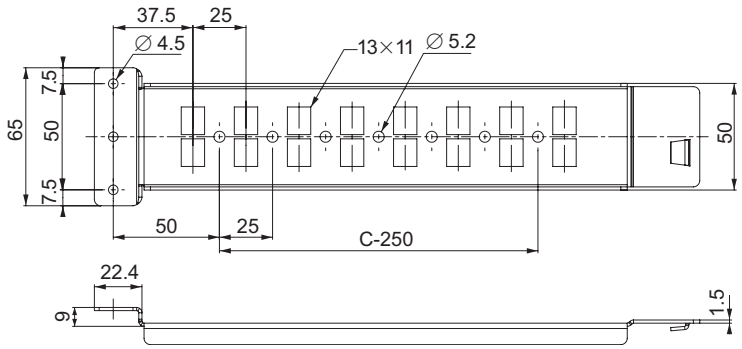
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Reinforced plate supports

- Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page **348**.
- Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure **(Spacial SF)** and on universal or quick-fixing cross rails (see page **357**) installed vertically in the back of the enclosure **(Spacial SM)**.
- Material: zinc-coated steel.

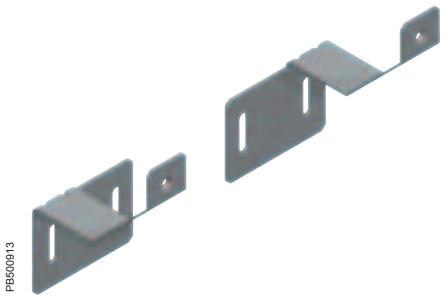
Supply: two supports and fixing elements.

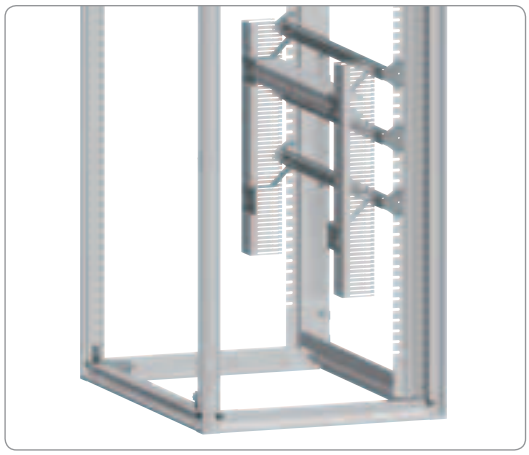
Nominal dimensions (mm) Depth (C)	No. of cut-outs (Ø 5.2 mm)	Reference
300	3	**NSYMPS30**
400	7	**NSYMPS40**
500	11	**NSYMPS50**
600	15	**NSYMPS60**
800	23	**NSYMPS80**



DB300371EN

Power distribution
Modular distribution


PB500913


PB500914

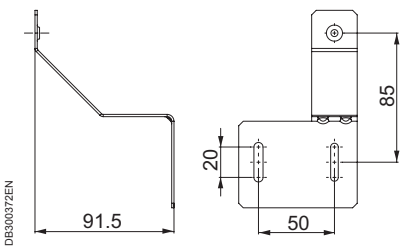
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Cable duct fixing supports

- Supports for fixing cable-distribution gutters in the modular distribution chassis.
- Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.
- Installation by screws directly on the rail supplied with the fixed or adjustable rail, page **392**.
- Material: zinc-coated steel.

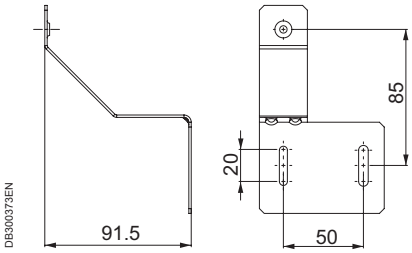
Supply: six supports (three on the right and three on the left) and fixing elements.

Reference
NSYMCDFIX



DB300372EN

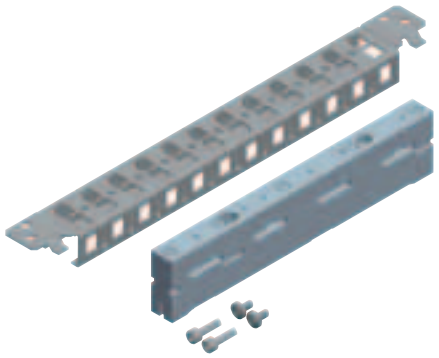
Left support



DB300373EN

Right support

Power distribution
Busbars and blocks


PB500915

PB500916

PB500917

PB500918

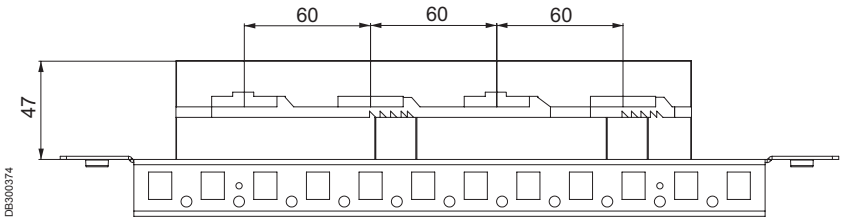
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓				✓					

630 A bar support

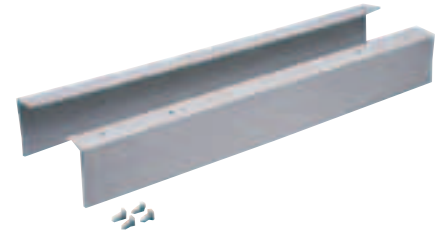
- **Spacial SF:** support prepared for coupling directly to the structure of the enclosure.
- **Spacial SFX:** A universal cross rail is needed, in some cases, to replace the 400 mm quick-fixing cross rail.
- **Spacial SM:** installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row).
- Maximum nominal rating 630 A.
- Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.

Supply: one 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements.

Nominal dimensions (mm) Width/Depth	Reference
400	**NSYBS400**
500	**NSYBS500**
600	**NSYBS600**
800	**NSYBS800**



Nominal rating IP55 NR (A)	No. of bars per phase	Bar cross-section (mm)	Bar cross-section (mm^2)	Maximum distance between bar supports according to the short-circuit current (mm) Icc kA							Neutral (mm)	Earth (mm)
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	12 x 5	75	575	575	575	450	325	-	-	-	-
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6

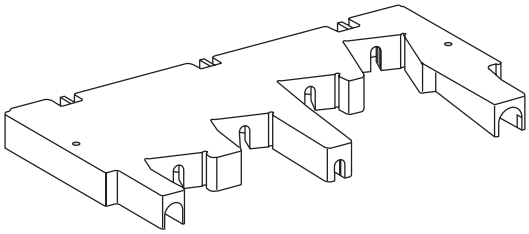

PB500919

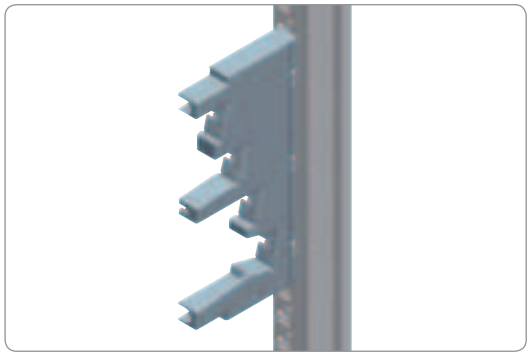
630 A busbar end cover

- Busbar end protection.
- Direct installation on the actual bar support (insulator).

Supply: two 630 A bar support plates and fixing elements.

Reference
NSYBSC630


DB300375


PB500920

630 A multi-stage bar support

- Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8.
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.
- Mounting on mounting plates (see page **333**) or cross-rails (see page **357**).
- Electrical characteristics:

– Rated peak withstand current Ipk (kÂ):
  • 30 kÂ for 160 A busbar.
  • 40 kÂ for 250 A busbar.
  • 55 kÂ for 400 A and 630 A busbar.

– Rated insulation voltage Ui = 750 V.

- Material: insulating plastic.

Supply: 1 multi-stage bar support and fixing elements.

- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included.

Reference
04192

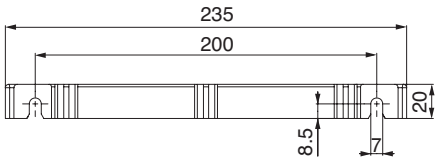
- The following table shows:

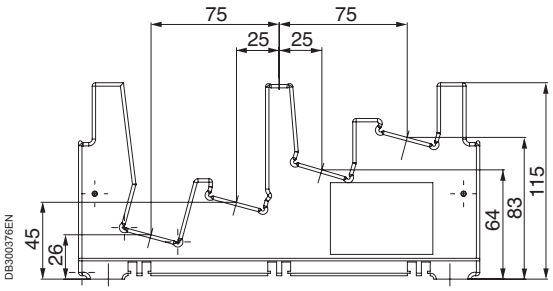
– The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.

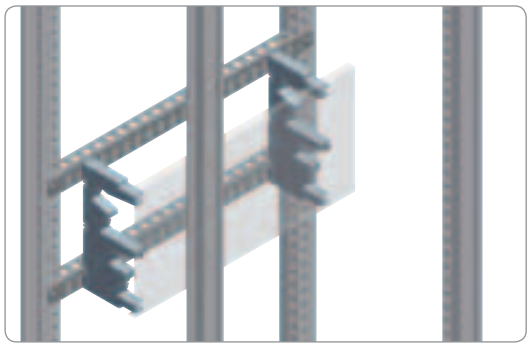
– The distance between the bar supports that will be installed according to the rated short-time withstand current: Icw.

Rating (A)	Bar cross-section (mm)	Centre-to-centre distance of the supports (mm)				
		Icw (kA eff/1 s)				
		10	13	15	20	25
160	15 x 5	450			300	300 (1)
250	20 x 5					
400	32 x 5					
630	32 x 8					

(1) Icw (kA eff/0.6 s).






PB500921

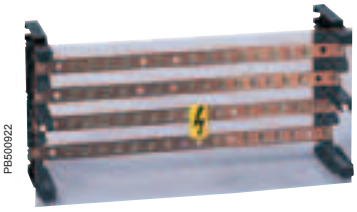
Screen for 630 A multi-stage busbar

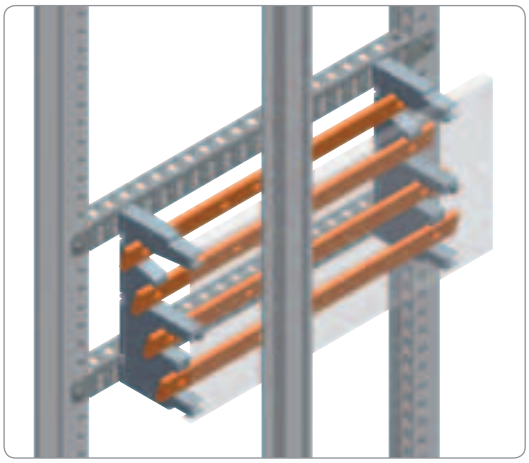
- Protects against direct contact from the front in the connections of the busbar.
- Direct mounting on the actual support.
- Length: 1500 mm.

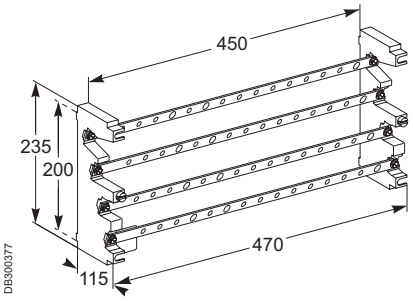
Supply: 1 screen for multi-stage busbar and fixing elements.

Reference
04197

Power distribution
Busbars and blocks


PB500922


PB500923



DB300377

160 A / 630 A four-pole multi-stage distribution block

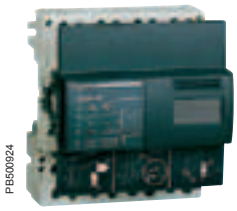
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- The copper bars are supplied with:
– 13 holes for M6, for the outgoer.
– 4 holes with Ø 12.2 for supplying the distribution block.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.
- Installation:
– Mounting plates (see page **333**) or cross-rails (see page **357**).
- Electrical characteristics:
– Rated operating current (40 °C):
  • 160 A.
  • 250 A.
  • 400 A.
  • 630 A.
– Rated insulation voltage Ui = 750 V.
– Rated short-time withstand current = Icw:
  • 10 kA rms/1 s for 160 A distribution block.
  • 13 kA rms/1 s for 250 A distribution block.
  • 20 kA rms/1 s for 400 A distribution block.
  • 25 kA rms/1 s for 630 A distribution block.
– Rated peak withstand current = Ipk:
  • 30 kÂ for 160 A distribution block.
  • 30 kÂ for 250 A distribution block.
  • 40 kÂ for 400 A distribution block.
  • 40 kÂ for 630 A distribution block.
– Rated impulse withstand voltage: Uimp = 8 kV.
- Distribution: 13 outlets for phase with max. 50 mm^2.

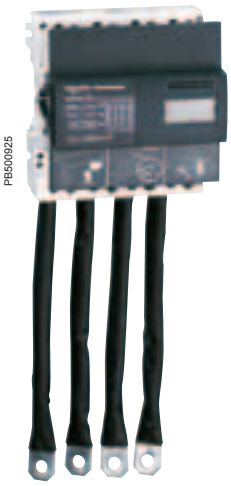
Supply: 2 multi-stage bar supports, 4 cut-out copper bars with a pitch of 25 mm and 1 IPxxB insulating front cover.

- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included.

Description	Bar cross-section (mm)	Reference
160 A (40 °C)	15 x 5	**04052**
250 A (40 °C)	20 x 5	**04053**
400 A (40 °C)	32 x 5	**04054**
630 A (40 °C)	32 x 8	**04055**

Power distribution
Busbars and blocks


PB500924


PB500925

Distribloc distribution block

- 4-pole distribution block.
- The outgoer are connected by the front, on spring terminals. The pressure of this spring is adapted automatically to the cross-section of the conductor. It is independent from the operator.
- Degree of protection: IPxxB (protection against direct contacts).
- Installation:

– Clips onto DIN rails (see page **365**) and/or mounting plates (see page **333**).

- Electrical characteristics:

– Rated operating current (40 °C):
  • 125 A for Distribloc 125.
  • 160 A for Distribloc 160.
– Resistance to short-circuit currents: the interrupting capacity reinforced by filiation is conserved in the case of automatic switch associations.
– According to low-voltage switchgear standards UNE-EN 60947-7-1 and/or UNE-EN 61439-2.
– Rated impulse withstand voltage: Uimp = 8 kV.

- Power supply:

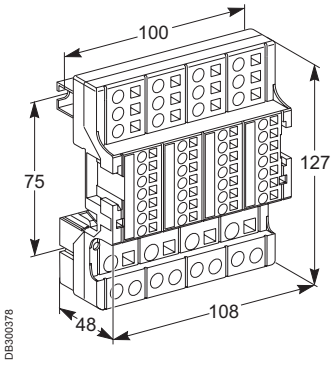
– 125 A Distribloc: tunnel terminal for 35 mm² cables.
– 160 A Distribloc: by prefabricated flexible connection (35 mm²), supplied.

- Distribution (for 125 A and 160 A Distribloc):

– On spring terminals:
  • 2 outlets connected by flexible cables from 4 to 10 mm².
  • 3 outlets connected by flexible cables from 2.5 to 6 mm².
  • 7 outlets connected by flexible cables from 1.5 to 4 mm².
– On tunnel terminals:
  • 1 outlet connected by flexible cables from 4 to 16 mm².

Supply: single-piece distribution block, 1 IPxxB modular insulating screen and self-adhesive labels for identifying the phases. Prefabricated flexible connection in Distribloc 160.

Description	Reference
125 A distribution block	**04045**
4 x 125 A flexible connectors	**04047**
160 A distribution block (with 4 flexible connectors)	**04046**



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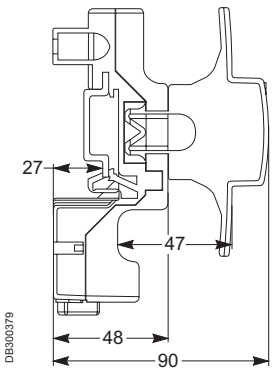
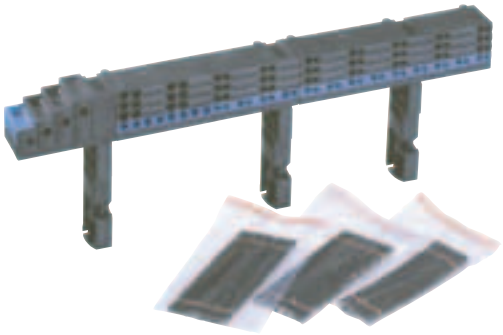


DB300379

Power distribution
Busbars and blocks


PB500926

Multiclip distribution block

- Distribution in a full row (48 modules of 9 mm) of modular switchgear. Generally supplied on a busbar.
- The outgoer are connected by the front, on the spring terminals. The contact pressure of the cable is independent from the operator.
- Power supply: tunnel terminal for 50 mm² cables.
- It adapts automatically to the cross-section of the conductor (min. cross-section 1 mm²).
- Each spring only accepts one flexible cable at a time.
- Degree of protection: IPxxB (protection against direct contacts).
- Installation: clipped onto the rear of a modular rail, for example Ref. 03001, or screwed on mounting plates (see page **333**).
- Electrical characteristics:

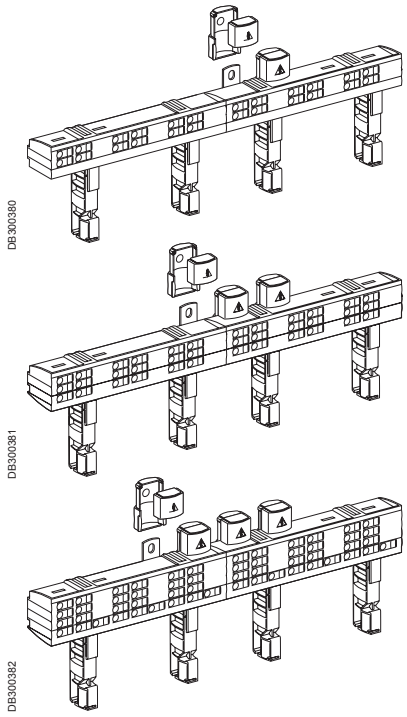
– Rated insulation voltage: Ui = 750 V.
– Rated impulse withstand voltage: Uimp = 8 kV.
– Resistance to short-circuit currents: the interrupting capacity reinforced by filiation is conserved in the case of automatic switch associations.
– 200 A Multiclip:
  • 10 mm² cable outlet: Imax = 50 A.
  • 2 different outgoer with cables of 10 mm²: Imax = 63 A.

- Distribution:

– For 2-pole 200 A Multiclip (04012):
  • 12 phase and neutral connection points.
– For 3-pole and 4-pole 200 A Multiclip (04013 and 04014):
  • 12 connection points for each phase.
  • 18 connection points for the neutral.

Supply: Multiclip distribution block, 10 mm² bared copper connections with a length of 100 mm, 2 bags of 12 connections, terminal covers for the supply poles (IPxxB), screws for the supply poles and fixing elements.

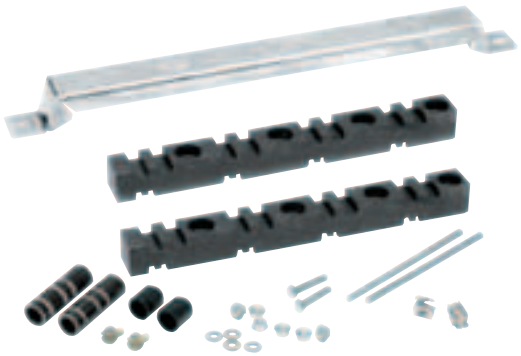
Description	Reference
200 A 2-pole	**04012**
200 A 3-pole	**04013**
200 A 4-pole	**04014**


DB300380

DB300381

DB300382

Power distribution
Busbar support accessories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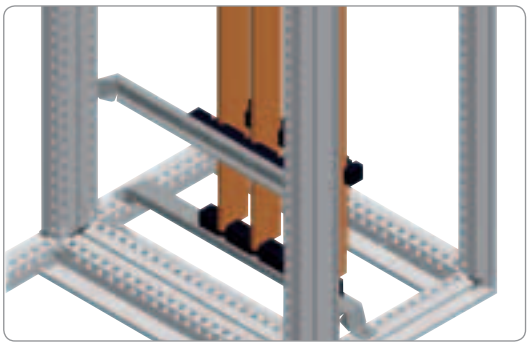

PB500073

PB500928

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
				✓									

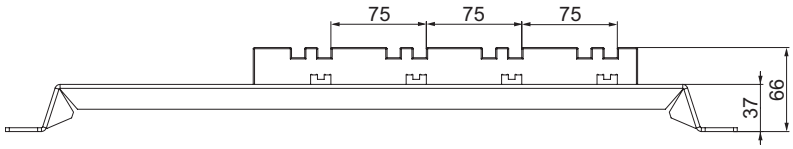
Vertical bar support up to 3200 A

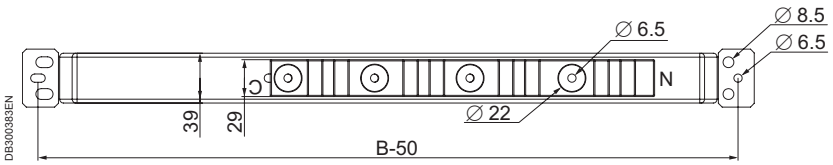
- Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm.
- Maximum nominal rating:
– 1600 A for 5 mm bars.
– 3200 A for 10 mm bars.
- The number and the distance between supports, according to the nominal current and the short-circuit current, are stated in the enclosed table.

Supply: two insulating bar supports, one metal vertical support and fixing elements.

Nominal dimensions (mm) Width/Depth (B)	Reference
400	**NSYBVS400**
500	**NSYBVS500**
600	**NSYBVS600**
800	**NSYBVS800**

- The number and the distance between supports, according to the nominal current and the short-circuit current, are stated in the enclosed table.





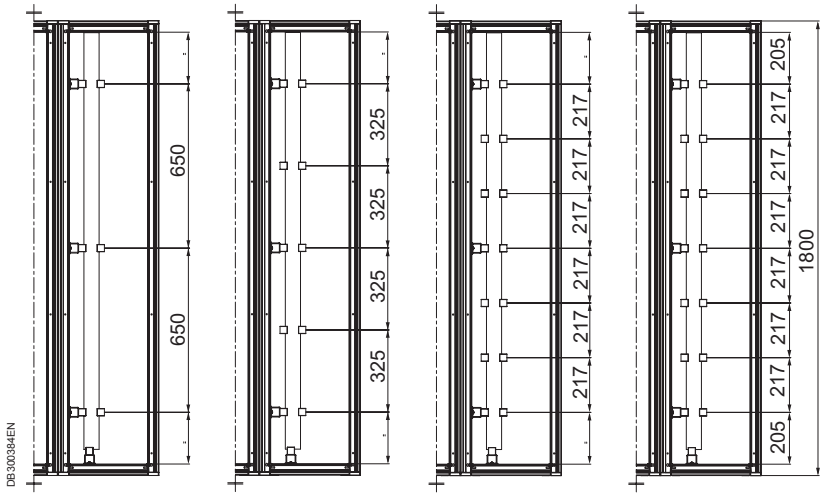
Power distribution
Busbar support accessories

Selection of the number of supports

- The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
- Determine the short-circuit current Icw (kA) and use the table to obtain the maximum distance between supports.
- Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:

– Three vertical supports must necessarily be fixed to the structure (ref. **NSYBVS**...).
– If more than three supports are required, the support arms must be used (ref. **NSYBSA**), in even numbers (2, 4, etc.).

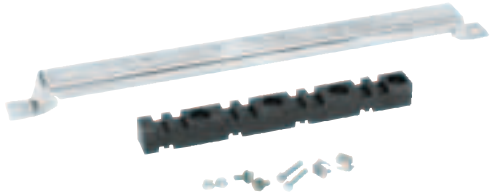
- Example:
  In: 2000 A, two 60 x 10 bars are required per phase.
  Icw: 50 kA.
  According to the table of maximum distance between supports they must be 325 mm.
  Length of the copper bars: 1800 mm.
  1700/325 = 5.23, which means 6 supports, 3 fixed vertical supports and 3 support arms + 1 extra support for the number to be even.



Sets of vertical bars			Maximum distance between bar supports (mm) according to the short-circuit current, Icw (kA)								
Nominal rating In (A)	Cross-section (mm)	No. of bars per phase	Icw (kA)								
			15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	-	-	-	-
1600	80 x 5	2	650	325	325	217	217	-	-	-	-
1080	50 x 10	1	650	650	650	325	217	217	-	-	-
1250	60 x 10	1	650	650	650	325	325	217	-	-	-
1600	80 x 10	1	650	650	650	325	325	217	-	-	-
1850	50 x 10	2	650	650	325	325	325	217	217	217	-
2000	60 x 10	2	650	650	650	325	325	325	217	217	-
2500	80 x 10	2	650	650	650	325	325	325	325	217	-
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35 °C around the busbar.
The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35 °C, varying according to the configuration and position of the busbar.
See enclosed table of current-carrying capacities according to temperature, page **405**.

Power distribution
Busbar support accessories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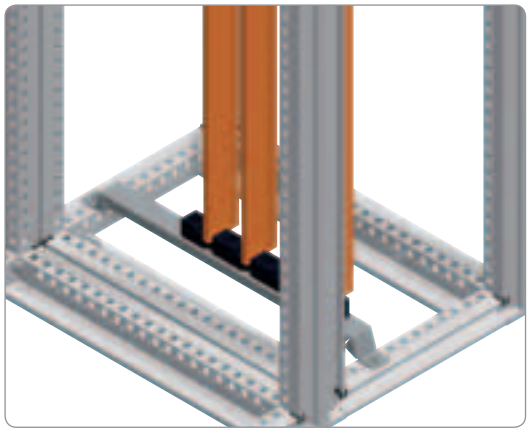

PB500930

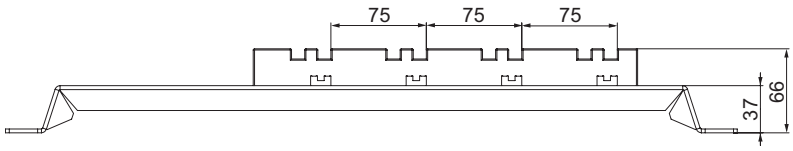
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
				✓									

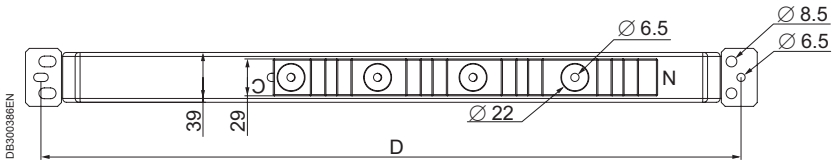
Setting support

- Bottom support for bars in vertical position.
- It is fixed to the bottom frame of the enclosure.
- It is required for supporting the bars.
- It is not considered a bar support when calculating the number of supports.

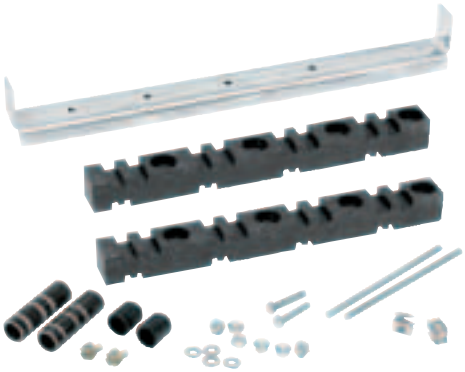
Supply: one insulating bar support, one metal vertical support and fixing elements.

Nominal dimensions (mm) Width/Depth	Reference
400	**NSYAS400**
500	**NSYAS500**
600	**NSYAS600**
800	**NSYAS800**





Power distribution
Busbar support accessories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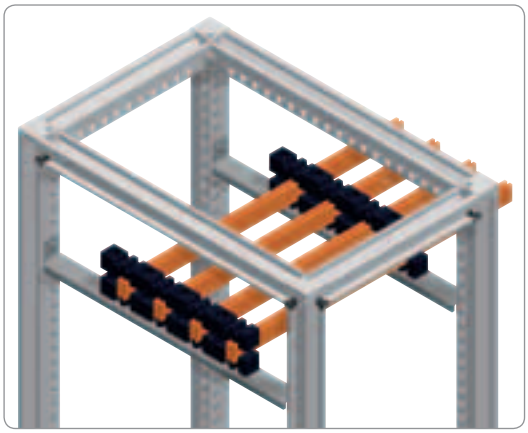

PB500932

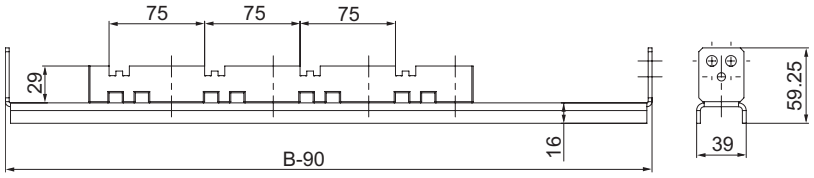
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

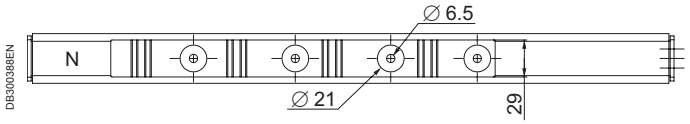
Horizontal bar support up to 3200 A

- Support prepared for fixing bars in horizontal position.
- Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm.
- Maximum nominal rating:
  – 1600 A for 5 mm bars.
  – 3200 A for 10 mm bars.
- The number and the distance between supports, according to the nominal and short-circuit current, are stated in the enclosed table.

Supply: two insulating bar supports, one metal horizontal support and fixing elements.

Nominal dimensions (mm) Width/Depth (B)	Reference
500	**NSYBHS500**
600	**NSYBHS600**
800	**NSYBHS800**





Sets of vertical bars			Maximum distance between bar supports (mm) according to the short-circuit current Icw (kA)								
Nominal rating In (A)	Cross-section (mm)	No. of bars per phase	15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	163	130	108	81
1600	80 x 5	2	650	325	325	217	217	163	130	108	81
1080	50 x 10	1	650	650	650	325	217	217	163	-	-
1250	60 x 10	1	650	650	650	325	325	217	163	130	108
1600	80 x 10	1	650	650	650	325	325	217	163	130	108
1850	50 x 10	2	650	650	325	325	325	217	217	217	163
2000	60 x 10	2	650	650	650	325	325	325	217	217	163
2500	80 x 10	2	650	650	650	325	325	325	325	217	163
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35 °C around the busbar.
The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35 °C, varying according to the configuration and position of the busbar.
See enclosed table of current-carrying capacities according to temperature, page **405**.

Power distribution
Busbar support accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

Selection of the number of supports

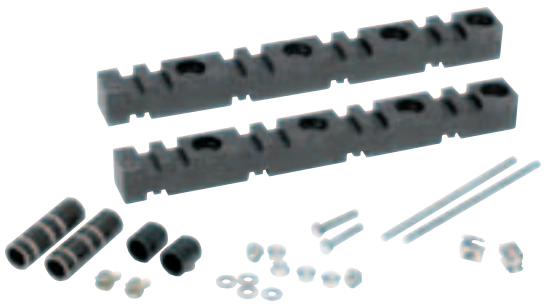
- The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
- Determine the short-circuit current Icw (kA) and use the table to obtain the maximum distance between supports.
- Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:

– Two supports must necessarily be fixed to the structure per enclosure. In the event of enclosure suites, only one support is required, fixed to one of the uprights of the coupling.
– If more than two supports are required per enclosure, the support arms must be used (ref. **NSYBSA**).

Table of current-carrying capacities according to temperature

Type of bars		Current-carrying capacity (A) according to the ambient temperature around the frame				
Cross-section (mm)	No. of bars per phase	25 °C	30 °C	35 °C	40 °C	45 °C
60 x 5	1	840	790	750	700	650
80 x 5	1	1050	990	900	870	810
60 x 5	2	1420	1350	1250	1180	1090
80 x 5	2	1820	1720	1600	1510	1390
50 x 10	1	1220	1160	1080	1010	940
60 x 10	1	1400	1320	1250	1160	1070
80 x 10	1	1800	1700	1600	1500	1390
50 x 10	2	2090	1980	1850	1740	1610
60 x 10	2	2270	2140	2000	1870	1720
80 x 10	2	2820	2660	2500	2330	2160
100 x 10	2	3200	3100	2800	2720	2510

Note: The rating values according to temperature are not exhaustive, since they depend on the configuration and position of the bars inside the enclosure.


PB500933

Bar support arm

- Support without fixing to the enclosure, required to guarantee the distance between the bars.
- It is used on bars in both vertical and horizontal position.
- To choose the number of supports, see the tables of maximum distances between supports, pages **396**, **402** and **404**.

Supply: two insulating bar supports and fixing elements.

Reference
NSYBSA

Power distribution
Distribution blocks

PB500934

Sigma safety terminals

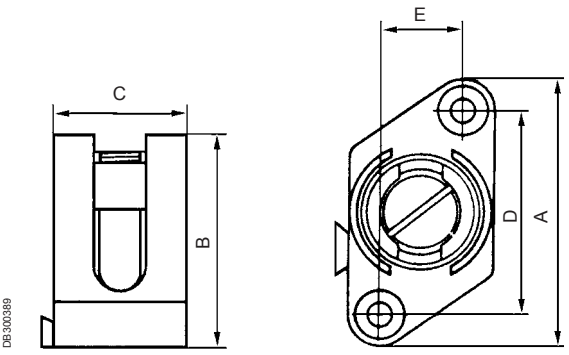
Safety terminals made from self-extinguishing Polyamide-6, with matt black base, **MS-58** brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured self-extinguishing polypropylene.

- Anti-shearing: the connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors.
- Unloosenable: the ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection.
- Full insulation: all the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts.

All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.

Section (mm^2)	A	B	C	D	E	Supply	Reference
1 x 4	30	20	13	21	4	20	**NSYS04**
1 x 6	33	25	16	24	7	20	**NSYS06**
1 x 10	38	28	16	28	6	20	**NSYS10**
1 x 16	42	32	19	32	9	20	**NSYS16**
1 x 35	46	38	23	34	11	20	**NSYS2535**
1 x 50	52	45	27	40	15	20	**NSYS50**
1 x 70	55	50	30	40	15	20	**NSYS70**
1 x 100	58	54	33	40	20	10	**NSYS95100**

Note: Each terminal accepts up to 2 conductors with the specified section.



Power distribution
Distribution blocks

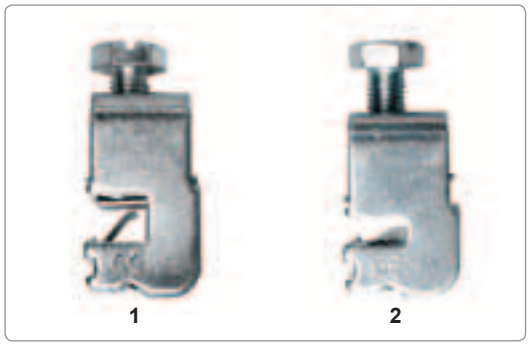
PB500935

Bimetal terminals

Terminals specially designed for the junction of cables on plates, their main application is in busbar connections.
The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).

Supply: 4 bimetal terminals.

Main section (mm^2)	Junction section (mm^2)	Reference
6-50	-	**NSYBBH29**
6-50	-	**NSYBBH29C**
10-95	-	**NSYBBH30**
16-150	-	**NSYBBH31**
50-240	-	**NSYBBH32**
6-50	6-50	**NSYBBH29D**
10-95	10-95	**NSYBBH30D**
25-150	16-150	**NSYBBH31D**
95-240	5-240	**NSYBBH32D**
6-50	-	**NSYBBH29P**
6-50	6-50	**NSYBBH29DPC**



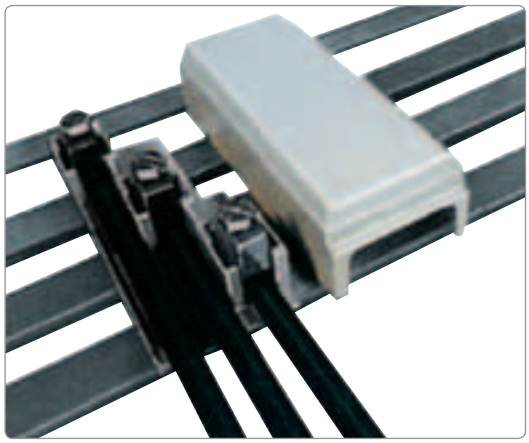
PB500936

Plate/cable terminals

Entry by plate and junction by cable, plate or terminal.

Supply: 1 junction terminal.

Junction cable section (mm^2)	Plate thickness (mm)	Fig.	Reference
1.5 to 16	5	2	**NSYBPCH516**
1.5 to 50	5	2	**NSYBPCH550**
16 to 120	5	2	**NSYBPCH5120**
1.5 to 16	10	1	**NSYBPCH1016**
1.5 to 50	10	1	**NSYBPCH1050**



PB500937

Three-pole junction terminals

Entry by plate and junction by cable (for busbars).

Supply: 1 junction terminal.

Entry plate width (mm)	Entry plate thickness (mm)	Junction cable section (mm^2)	Reference
12/15/20/25/30	5 to 10	35 to 120	**NSYBTE630TBT**

Power distribution
Distribution blocks

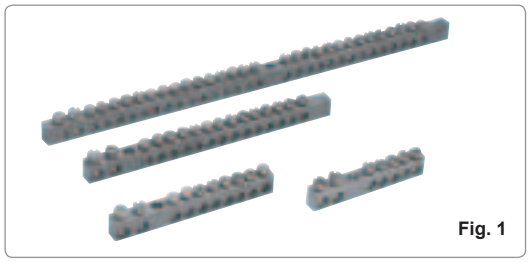

PB500938

Fig. 1

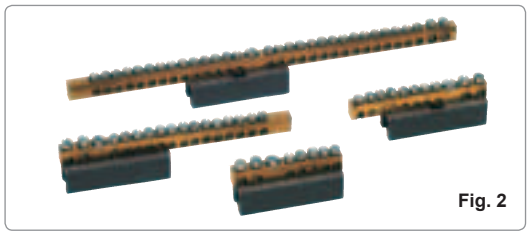

PB500939

Fig. 2

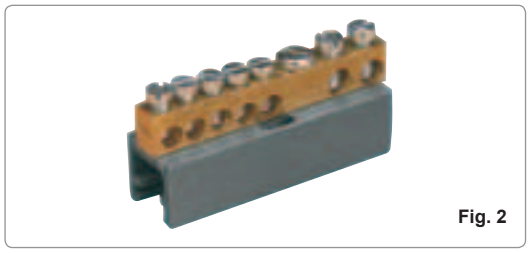

PB500891

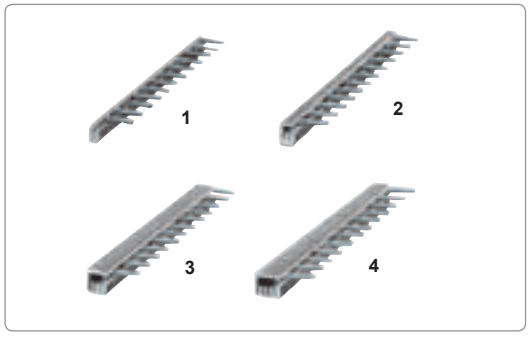
Fig. 2

Earthing strips

For the junction of neutral and earth cables.
- Models **NSYRBL** (Fig. 1) for installation in boxes with insulating rear or by means of insulators, not supplied.
- Models **NSYRBLZ** (Fig. 2) with insulating plinth for fitting under pressure on 12 x 2-mm rail.

Supply: 10 earthing strips

Number of terminals x section mm²	Fig.	Reference
2 x 16 mm² + 5 x 6 mm²	1	**NSYRBL21656M**
2 x 16 mm² + 8 x 6 mm²	1	**NSYRBL21686M**
2 x 16 mm² + 14 x 6 mm²	1	**NSYRBL216146M**
2 x 16 mm² + 29 x 6 mm²	1	**NSYRBL216296M**
2 x 16 mm² + 5 x 6 mm²	2	**NSYRBLZ21656**
2 x 16 mm² + 8 x 6 mm²	2	**NSYRBLZ21686**
2 x 16 mm² + 14 x 6 mm²	2	**NSYRBLZ216146**
2 x 16 mm² + 29 x 6 mm²	2	**NSYRBLZ216296**



PB500940

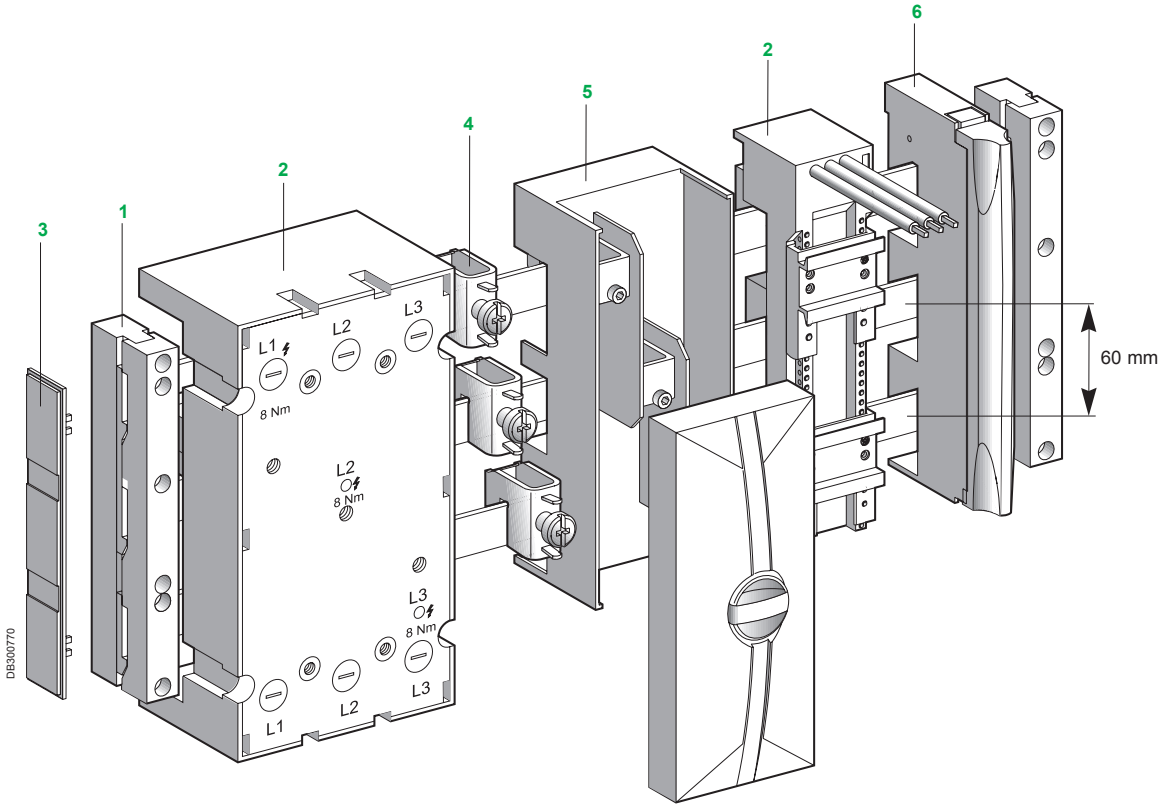
Distribution boards

For distribution in a single row of circuit breakers with a total of 12 modules.

Supply: 10 distribution boards.

N.° of bars	N.° of poles per bar	Fig. n.°	Reference
1	12	1	**NSYBDS112**
2	6	2	**NSYBDS26**
3	4	3	**NSYBDS34**
4	3	4	**NSYBDS43**

Power distribution
Plates for mounting on 60 mm busbar



Description

The mounting plates are fitted directly on this busbar, by snap-on mounting, thus implementing electrical connection.

This system offers numerous benefits:
- Space saving in cabinets.
- Fast, safe and reliable electrical and mechanical connection.
- Easy connection.
- Protection for users against electric shocks by direct contacts (IP 20) by using covers.
- Equipment flexibility and modularity.
- Increased equipment availability: easier maintenance.
- Power supply without drilling (connectors) from 1.5 to 120 mm^2.

Support for 3P and 4P busbar 1

The mounting plates 2

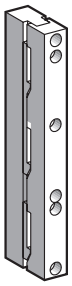
These allow mounting of the power feeder components consisting of:
- A GV2 motor circuit breaker, mounted alone or in conjunction with a TeSys K or TeSys D contactor.
- A GV3 motor circuit breaker, mounted alone or in conjunction with a TeSys D contactor.
- A TeSys U starter-controller.
- A TeSys GV7 motor circuit breaker.
- An LD63 integral contactor-circuit breaker.
- A NSX100-250 or NSX400-630 A circuit breaker.

Accessories

Accessories complete the offer:
- End covers 3.
- 1P connectors 4.
- 3P connectors on mounting plate 5.
- A spring terminal 3P connection module 6.

Power distribution
Busbar support and terminals

LA9ZX01573

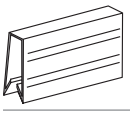


LA9ZX01495

IEC busbar supports and accessories

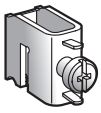
		Sale in ind.Q.	Reference
3-pole	For 12, 15, 20, 25, 30 x 5/10 mm² busbars	10	**LA9ZX01495**
	End covers for 3-pole busbar support	10	**LA9ZX01573**
4-pole	For 12, 15, 20, 25, 30 x 5/10 mm² busbars	10	**LA9ZX01485**
	End covers for 4-pole busbar support (5 left, 5 right)	10	**LA9ZX01131**

Other accessories

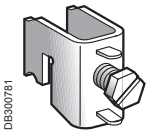
		Sale in ind.Q.	Reference
Covers, length 1 m			
	For 12-30 x 5 mm² busbars	10	**LA9ZX01244**
	For 12-30 x 10 mm² busbars	10	**LA9ZX01245**

General characteristics

		LA9ZX01495 and LA9ZX01485 (IEC)							
Bar dimensions compatibility	mm	12 x 5	15 x 5	20 x 5	25 x 5	30 x 5	12 x 10	20 x 10	30 x 10
Max. rated operating current	A	200	250	320	400	450	360	520	630
Min. peak permissible rated current	kA	30	30	30	30	45	35	35	53
Distance max. between 2 busbars supports	mm	570	570	570	570	570	570	570	570
Degree of protection	IP	20 (with cover LA9ZX01244 or LA9ZX01245)							
Thermal resistance	°C	125							
Rated current frequency	Hz	50/60							
Rated insulation voltage	V	690							
Rated operating voltage	V	690							



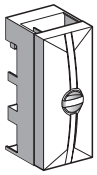
LA9ZX01285



LA9ZX01287

Terminals

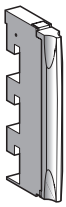
	I max.		Sale in ind.Q.	Reference
One-pole for flat bars, 5 mm	270 A	Capacity 4-35 mm²	50	**LA9ZX01285**
	400 A	Capacity 16-70 mm²	25	**LA9ZX01287**
3P cover, width 84 mm			10	**LA9ZX01413**



LA9ZX01243

Terminals on mounting plate

	I max.		Sale in ind.Q.	Reference
3P, on mounting plate + cover, for 12 x 5 to 30 x 10 busbars	440 A	Capacity 35-120 mm²	1	**LA9ZX01243**

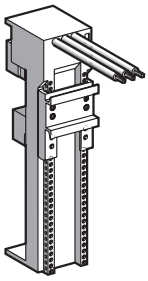


LA9ZX01563

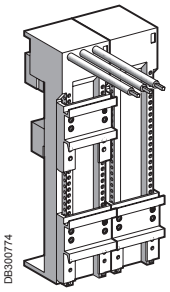
Connection module

	I max.		Sale in ind.Q.	Reference
3P, spring terminal connection + cover, for busbars of 12 x 5 to 30 x 10	80 A	Capacity 1.5-16 mm²	8	**LA9ZX01563**

Power distribution
TeSys mounting plates



LA9ZA32443, LA9ZA32621

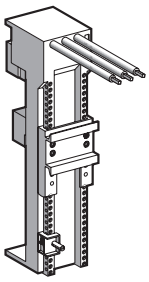


LA9ZA32622, LA9ZA32623

For TeSys GV2 motor circuit breakers

Operating current AC-3 440 V	Protection by motor circuit breaker	For contactor	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way					
25 A	GV2 ME GV2 P GV2 LE	LC1 D LC1 K LP4 K06-K12	45 x 200 x 63	4	**LA9ZA32621**
32 A	GV2 ME	LC1 D	45 x 200 x 63	4	**LA9ZA32434**
	GV2 P		54 x 200 x 63	4	**LA9ZA32442**
	GV2 LE		63 x 200 x 63	4	**LA9ZA32443**
Mounting plate, 2-way(1)					
25 A	GV2 ME GV2 P GV2 LE	LC1 D LC1 K LP4 K06-K12	90 x 200 x 63	2	**LA9ZA32622**
32 A	GV2 ME GV2 P GV2 LE	LC1 D	90 x 200 x 63	2	**LA9ZA32623**

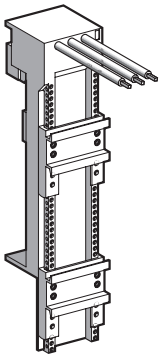
(1) Use the LAD 9R1 or LAD 9R1V kit for the execution of changeover contactors.



LA9ZA32427

TeSys U starter-controllers

Operating current AC-3 440 V	Protection by power base	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
32 A	LUB12, LUB32	45 x 200 x 63	4	**LA9ZA32427**
Mounting plate, 2-way				
32 A	LUB12, LUB32	45 x 260 x 63	4	**LA9ZA32428**



LA9ZA32625

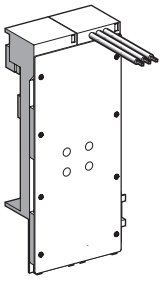
For TeSys GV3 motor circuit breakers

Operating current AC-3 440 V	Protection by power base	For contactor	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way(2)					
63 A	GV3 P	–	54 x 200 x 63	4	**LA9ZA32624**
	GV3 P	LC1 D40A…65 A	54 x 260 x 63	4	**LA9ZA32625**
Mounting plate, 2-way(2) (3)					
63 A	GV3 P	LC1 D40A…65 A	117 x 260 x 63	4	**LA9ZA32626**

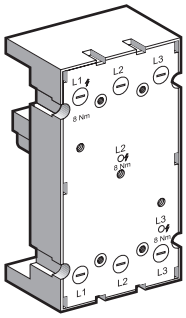
(2) Contactor-circuit breaker combination without additional part.
(3) Use the LAD 9R3 kit for the execution of changeover contactors.

Note: The mounting plate rails can be shifted vertically in 1.25 mm increments.

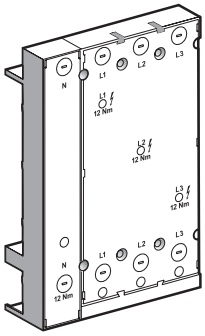
Power distribution
TeSys mounting plates



LA9ZA32627



LV432623, LA9ZA32600



LV432624

For TeSys integral contactor-circuit breakers

Operating current AC-3 440 V	Protection by contactor-circuit breaker	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
63 A	LD1, LD4 LD	108 x 260 x 63	1	**LA9ZA32627**

For TeSys GV7 motor circuit breakers

Operating current AC-3 440 V	Protection by contactor-circuit breaker	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
80 A	GV7	104 x 190 x 63	1	**LV429372**

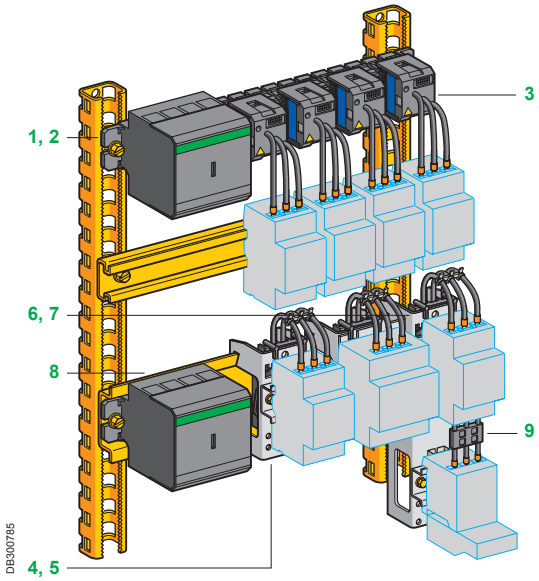
For Compact NSX circuit breakers

Ratings		Mounting plate l x h x d	Sale in ind.Q.	Reference
100-250 A	Mounting plate for 3P circuit breakers	104 x 190 x 63	1	**LV429372**
	Mounting plate for 4P circuit breakers	139 x 251 x 63	1	**LV429373**
400-630 A	Mounting plate for 3P circuit breakers	139 x 270 x 63	1	**LV432623**
	Mounting plate for 4P circuit breakers	184 x 284 x 63	1	**LV432624**

For PowerPact 3P circuit breakers

Ratings		Mounting plate l x h x d	Sale in ind.Q.	Reference
60-100-150 A	Mounting plate for H frame circuit breakers	104 x 190 x 63	1	**LA9ZA32600**
250 A	Mounting plate for J frame circuit breakers	104 x 190 x 63	1	**LV429372**
250-400-600 A	Mounting plate for L frame circuit breakers	139 x 270 x 63	1	**LV432623**

Power distribution
Pre-assembled panel busbar system AK5



Carrying of electric current

By the pre-assembled 4-pole busbar system **1**, 160 A at 35 °C.

4-pole busbar systems can be used for 3-phase + Neutral or 3-phase + Common.

An incoming supply terminal block **2** is located at the extreme left of the busbar system.

Current distribution

Tap-off units **3** (factory assembled) are available in 4 versions:
- 2-pole.
- 3-pole.
- 4-pole (3-phase + Neutral).
- 4-pole (3-phase + Common).

The tap-offs clip onto the busbar system with instantaneous mechanical and electrical connection to the busbars.
2 ratings are available: 16 and 32 A.
The tap-off units ensure not only rapid mounting, but also a neat appearance for the power distribution system and complete safety when accessing under live circuit conditions.

Component mounting

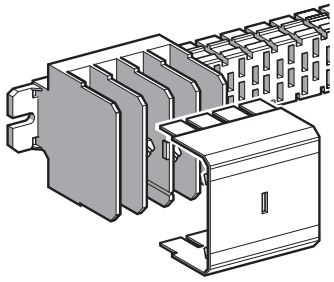
Component mounting plates with incorporated tap-off allow mounting of and supply of power to components.
They are available in 25 A or 50 A ratings.

These mounting plates clip onto the mounting rail **8**, which also supports the busbar system, and at the same time make electrical connection via the incorporated tap-off.

2 types of mounting plate are available:
- Single plates **4** (height 105 mm), with bolt-on 35 mm wide ⎍ rail **5**, which may be bolted on in one of two positions, allowing height adjustment of 10 mm.
- Double plates **6** (height 190 mm), with two bolt-on, 35 mm wide ⎍ rails **7** mounted on 100 mm fixing centres; each rail may be bolted on in one of 4 positions, allowing height adjustment in 10 mm steps. These plates are supplied with connectors **9** to allow wiring between control and protection devices.

Single mounting plates enable the following types of distribution:
- 2-pole (Ph + N) and (Ph + Ph).
- 3-pole.
- 4-pole (3 Ph + N or 3 Ph + Common).

Power distribution
Pre-assembled panel busbar system AK5

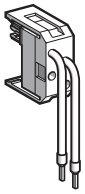

DB300786

AK5JB1●●

Busbar systems

The busbar system can be screw-mounted onto any type of support. However. if it is to be used in conjunction with component mounting plates incorporating a tap-off, it is essential that it is mounted on the AM1DL201 rail.
When mounting tap-offs, the rated operational current of the busbar system should be taken into account: 160 A at 35 °C.

Number of conductors	Number of tap-offs at 18 mm intervals	Length (mm)	Suitable for mounting in enclosure width (mm)	Weight (kg)	Reference
4(1)	12	344	600	0.700	**AK5JB143**
	18	452	800	0.900	**AK5JB144**
	24	560	800	1.100	**AK5JB145**
	30	668	800	1.300	**AK5JB146**
	48	992	1200	1.900	**AK5JB149**
	54	1100	1200	2.100	**AK5JB1410**


DB300787

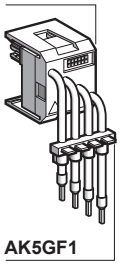
AK5PC12

Omega rail, width 75 mm

This rail is designed to accommodate the busbar system when it is used with AK5 PA mounting plates incorporating tap-offs. It supportsthe busbar system. The plates simply clip onto the rail.

Material and surface treatment	Depth (mm)	Length (mm)	Sold in lots of	Weight (kg)	Reference
2 mm sheet steel	15	2000(4)	6	3.000	**AM1DL201**

AK5PC14


DB300788

AK5GF1

Removable power sockets

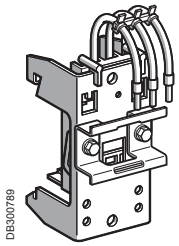
Use	Number of points used on the busbar system	Thermal current A	Cable lengths (mm)	Sold in lots of	Weight (kg)	Reference
Single-phase + Neutral	1	16	200	6(2)	0.035	**AK5PC12**
		32	1000	6(2)	0.040	**AK5PC32L**
2-phase	1	16	200	6(3)	0.035	**AK5PC12PH**
		32	1000	6(3)	0.040	**AK5PC32LPH**
3-phase	2	16	200	6	0.040	**AK5PC13**
		32	250	6	0.045	**AK5PC33**
			1000	6	0.060	**AK5PC33L**
3-phase + Neutral	2	16	200	6	0.045	**AK5PC14**
		32	250	6	0.050	**AK5PC34**
			1000	6	0.065	**AK5PC34L**
3-phase + Common	2	16 10 (Common)	200	6	0.045	**AK5PC131**
		32 10 (Common)	250	6	0.050	**AK5PC331**

Accessories

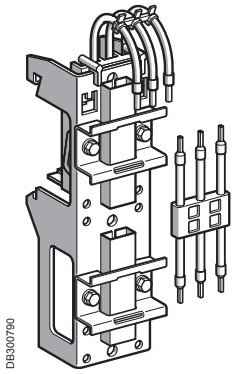
Description	Maximum no. of connections	C.s.a. mm²	Sold in lots of	Weight (kg)	Reference
Cable guide	4	2.5 or 4	20	0.300	**AK5GF1**

(1) 4-pole: 3-phase + Neutral or 3-phase + Common.
(2) Total of 6 sockets supplied: 2 sockets (N + L1), 2 sockets (N + L2). 2 sockets (N + L3).
(3) Total of 6 sockets supplied: 2 sockets (L1 + L2), 2 sockets (L1 + L3). 2 sockets (L2 + L3).
(4) Cut and drill to suit use.

Power distribution
Pre-assembled panel busbar system AK5



AK5PA231



AK5PA232

Component mounting plates incorporating tap-off

Single plate (height 105 mm)

Use	No. of 18 mm points used on the busbar system	Phase	Thermal current A	Number of ⊔ rails for component support	Weight (kg)	Reference
Single-phase + Neutral	3	Ph1+N	25	1	0.135	**AK5PA211N1**
		Ph2+N	25	1	0.135	**AK5PA211N2**
		Ph3+N	25	1	0.135	**AK5PA211N3**
2-phase	3	Ph1+Ph2	25	1	0.135	**AK5PA211PH12**
		Ph1+Ph3	25	1	0.135	**AK5PA211PH13**
		Ph2+Ph3	25	1	0.135	**AK5PA211PH23**
3-phase	3	–	25	1	0.140	**AK5PA231**
3-phase + Common	3	–	25	1	0.145	**AK5PA2311**
3-phase + Neutral	3	–	25	1	0.145	**AK5PA241**

Double plate (height 190 mm)

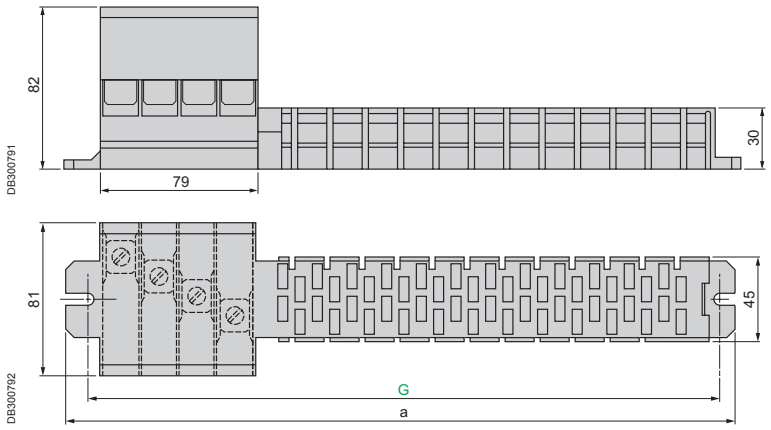
Prefabricated 25 A connectors are supplied for connecting the 2 protection and control devices.

Single-phase + Neutral	3	Ph1+N	25	2	0.135	**AK5PA212N1**
		Ph2+N	25	2	0.135	**AK5PA212N2**
		Ph3+N	25	2	0.135	**AK5PA212N3**
2-phase	3	Ph1+Ph2	25	2	0.135	**AK5PA212PH12**
		Ph1+Ph3	25	2	0.135	**AK5PA212PH13**
		Ph2+Ph3	25	2	0.135	**AK5PA212PH23**
3-phase	3	–	25	2	0.230	**AK5PA232**
	6	–	25	2	0.600	**AK5PA232S**
			50	1	0.700	**AK5PA532**
3-phase + Neutral	3	–	25	2	0.230	**AK5PA242**
3-phase + Common	3	–	25 (10 Common)	2	0.235	**AK5PA2312**
	6	–	25 (10 Common)	2	0.610	**AK5PA2312S**
			50 (10 Common)	1	0.710	**AK5PA5312**
3-phase + Neutral	6	–	50	1	0.715	**AK5PA542**

Power distribution
Pre-assembled panel busbar system AK5

Busbar systems

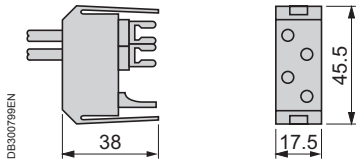
AK5JB●●●



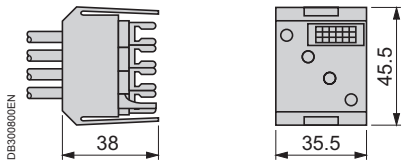
AK5	a	G	No. of 18 mm points
JB143	344	330	12
JB144	452	438	18
JB145	560	546	24
JB146	668	654	30
JB149	992	978	48
JB1410	1100	1086	54

Removable power sockets 16 and 32 A

AK5PC12●. AK5PC32L●

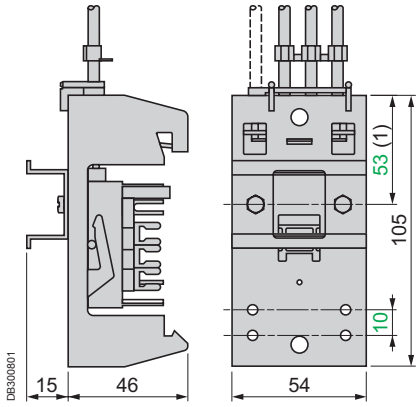


AK5PC●3. AK5PC33L
AK5PC●4. AK5PC34L
AK5PC●31



Mounting plates incorporating tap-offs, 25 A

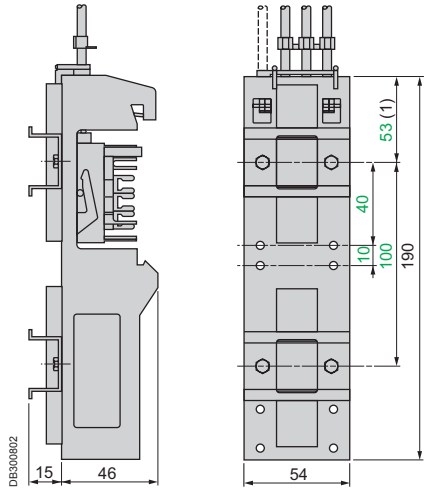
AK5PA2●1. AK5PA2311. AK5PA211●●●●



Note: It is recommended that the power sockets or the removable plates are connected as close as possible to the busbar feed unit.
(1) Can be fixed at 43 mm.

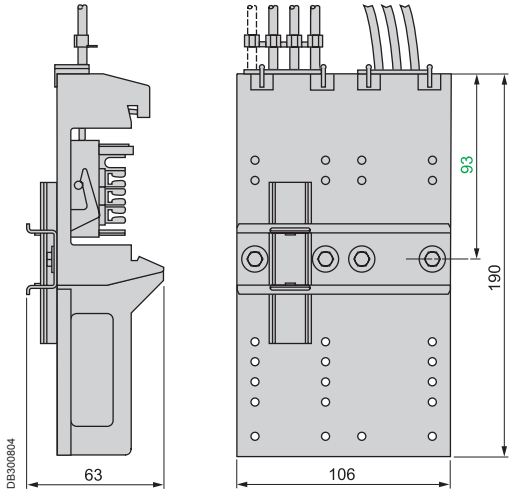
Component mounting plates incorporating tap-off

AK5PA232. AK5PA2312. AK5PA242



Component mounting plates incorporating tap-off

AK5PA532. AK5PA5312. AK5PA542



Cable management accessories

PB500943

Cable management accessories
Contents

Single cable entries overview 422

Multiple cable entries overview 423

Cable entries 424

Cable holding 438

Cintura Cable Ties 441

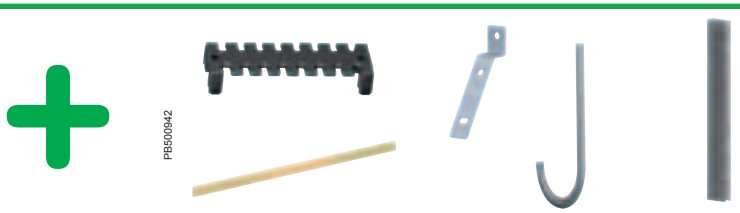
Cable Management Solutions 444

Cable management

1 **Direct installation on enclosures**
- Single entry (page **440**)
- Multiple entries (pages **426** to **430**)

2 **Installation on cable-gland plate**
- Cable-gland plate with FL system for S3D enclosures and for CRN enclosures (page **85**)
- FL membranes for direct entry (page **426**)
- FL gland plate with knock-out system (pages **424** and **425**)

3 **Services**
- Cut-outs on cable-gland plate or directly on body
- See our customisation service



Completed by our cable management accessories
see pages **437 to 449**

Cable management

PB500358

Minimum size and a high assembly:

Choice

Multiple solutions that can be combined on a single cable-entry plate (machining possible at the plant) or directly on the enclosure. See our customised offer.

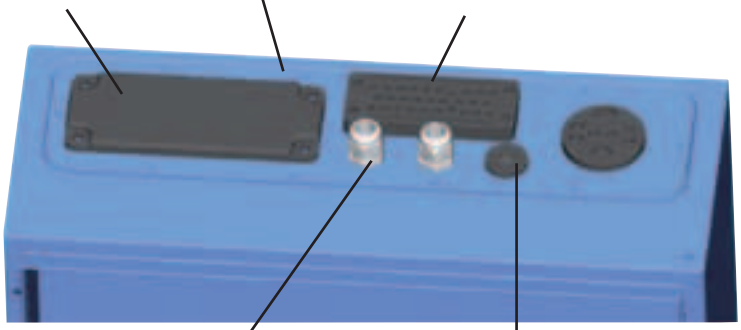
- IP 67 ISO cable-glands: for quick installation without tools.
- IP 67 cable-glands.
- IP 65 membranes for quick cable entries with FL21-type cut-out.
- IP 65 plate for quick cable entries with the following types of cut-outs: Harting or circular M50 and M63.
- IP 65 plate for cable entries equipped with Harting-type cut-outs and connectors.

Saves time:
IP 65 membranes for quick cable entries with FL21-type cut-out.

Service:
Direct machining of the cut-out on the body of the enclosure.

Development of the installation:
IP 65 plate for quick cable entries with the following types of cut-outs: Harting or circular M50 and M63.

Smart:
IP 54 plate for cable entries equipped with Harting-type cut-out connectors.


PB500943

Practical:
IP 67 cable-glands.

Simple:
IP 67 ISO cable-glands: for quick installation without tools.

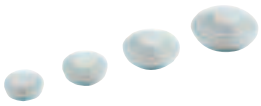
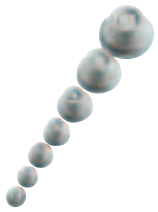
Example of installation on cable-entry plate.

PB500359

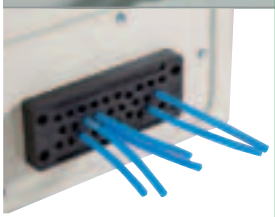
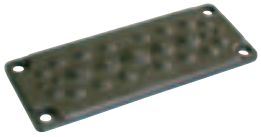
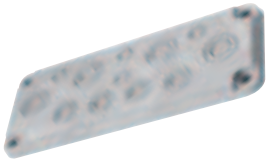
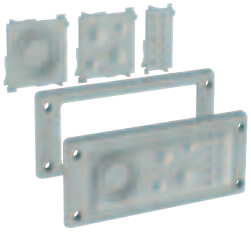
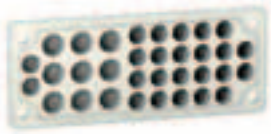
Specific

Machining of your plate before painting, with our specific service.

Cable management
Single cable entries overview

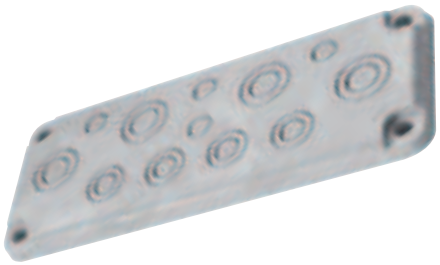
	Description	Cable dimensions (mm)	Details
PB500266 	IP 55 Stepped cable entries Enclosure thickness 2 - 3.2 mm	20 25 32 40	Page **435**
PB500267 	IP 67 quick cable entries Enclosure thickness 1 - 4 mm	12 16 20 25 32 40 50	Page **435**
PB500975	PVC adjustable cone-shaped entries Enclosure thickness 3 - 3.2 mm	18 26 36 60 87	Page **437**
PB500976	PVC adjustable cone-shaped entries Enclosure thickness 1.2 - 1.5 mm	16 18 20 26 35 44	Page **437**
PB500099	IP 68 ISO cable-gland	12 16 20 25 32 40	Page **436**

Cable management
Multiple cable entries overview

	Description	Cable dimensions (mm)	Details
PB500024	IP 65 cable entries without connectors	From 3 to 15.9	Page **430**
PB500023 	IP 65 cable entries without connectors	From 4.3 to 15.9	Page **430**
PB500952	IP 54 cable entries for cables equipped with connectors (matrix + split seals)	From 3 to 31	Page **433**
PB500605 	IP 65 membranes (FL21)	From 6 to 60	Page **426**
PB500944 	IP 65 knock out plate (FL21)	4 x 12 4 x 12/20 4 x 16/25	Page **424**
PB500945 	IP 65 knock out and membrane plate (FL13 and FL21)	16 20 25 32 40 50	Page **425**
PB501700 	IP 65 membrane plate (FL13 and FL21)	From 13 to 30	Page **427**

Cable management
Cable entries

PB500944



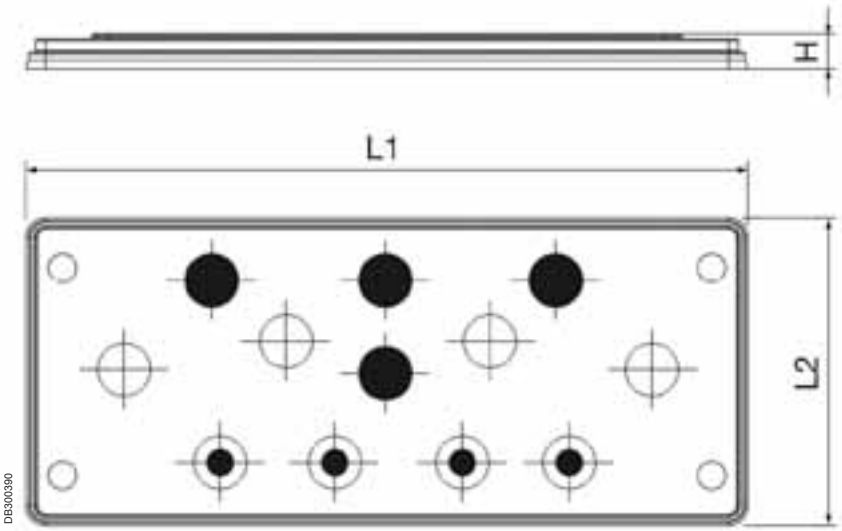
FL21 insulated flange with ISO knock-outs (for cable gland with nut)

1 model (4 x 12 + 4 x 12/20 + 4 x 16/25) colour RAL 7035.

Installation on cable-gland plates (FL21 models) or direct installations on the enclosures with our specific offer. Please consult us.

- Material: polycarbonate, glass-fiber reinforced.
- Flame resistance: UL94 – V1.
- Temperature range for normal operation: –40 ... +80 °C.
- Temperature range for a short time: –40 ... +120 °C.
- Degree of protection: IP65.

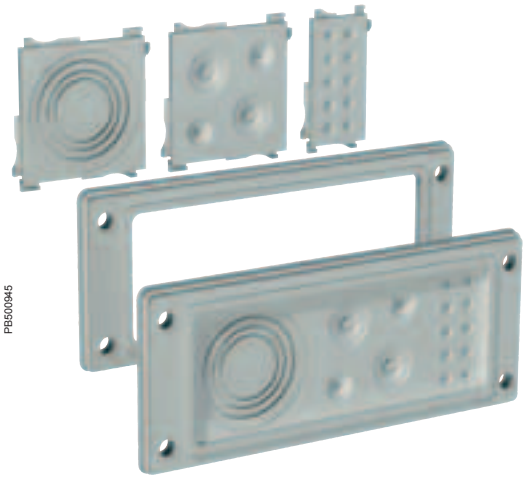
DB300390



Size	L1 (mm)	L2 (mm)	H (mm)	H2 (mm)	Reference
FL21	215	85	10	~ 35	**NSYTSAKFL**

	M12
	M12 or M20
	M16 or M25

Cable management
Cable entries


PB500945

FL13 or 21 pre-configured flanges

4 models: one FL13 and three FL21, RAL 7035 colour.

Installation on cut-out cable-gland plates or direct installation on the enclosures with our specific offer. Please consult us.

- Material: Fibreglass-reinforced polypropylene and TPE - Halogen Free.
- Certificates: UL-approved materials.
- Fire resistance: UL94 HB.
- Degree of protection: IP 65.
- Temperature range: –20 °C to +125 °C(1).

Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998
EMKO-TUI(03-SEC)FI001/84.
Semko report 816003.

FL	4-10 mm(1)	M20 (6-13 mm)(2)	Ref.
13	10	1	**NSYAECPKFL11**

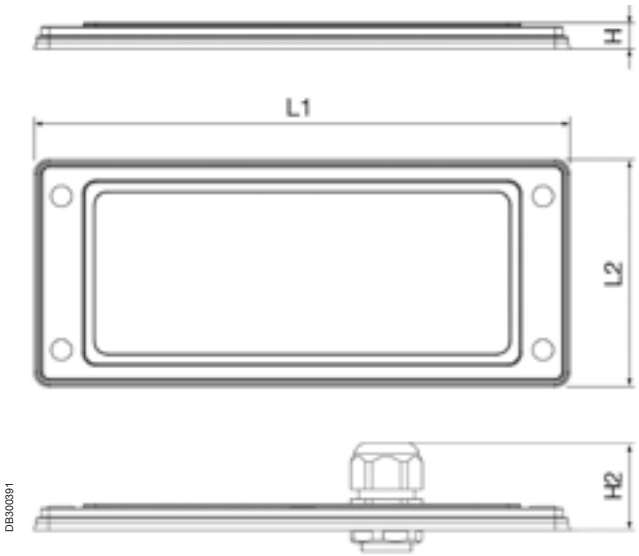
(1) "Pop-out" membranes only.
(2) "Pop-out" membranes or cable gland installation.

PB500946

Example of mounting with direct cable entry (through pop-out membranes) or mounting of cable gland.

FL	M16 (5-10 mm)(3)	M20 (6-13 mm)(3)	M25 (8-17 mm)(3)	M32 or M40 or M50(4)	Ref.
21	2	2	2	1	**NSYAECPKFL7A**
21		6		1	**NSYAECPKFL7B**
21	4	2	4		**NSYAECPKFL10**

(3) "Pop-out" membranes or cable gland installation.
(4) Knock out system.

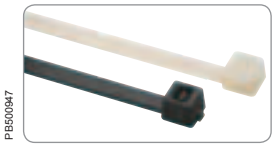


DB300391

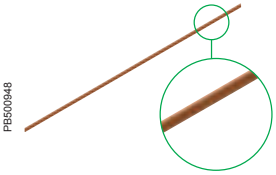
Cable gland

Size	L1 (mm)	L2 (mm)	H (mm)	H2 (mm)
FL13	134	52	6.5	~ 35
FL21	214	90	9	~ 35

See also the accessories


PB500947

Adjustable cable tie page **441**


PB500948

Earthing strip page **479**

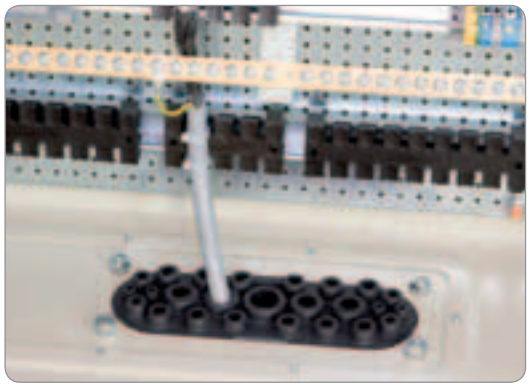
Cable management
Cable entries

FL21-type membranes “T” range

Number of cable entries	Diameter of the cable entry (Ø mm)										Reference
	5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60	
0												**NSYAECPFLBP***
7				4						2	1	**NSYAECPFLT7**
25	4		4		12		4		1			**NSYAECPFLT25**
35		2	14		16	2		1				**NSYAECPFLT35**

* Metallic plate.

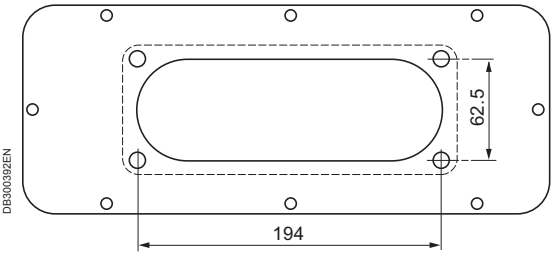
PB500605



PB500606

Sealed cable entries made from insulating material (fire resistance: V0 according to UL 94).

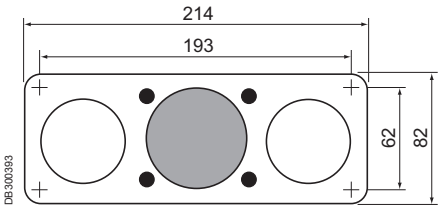
- Guarantees a degree of protection of IP 65.
- Dark grey colour.
- Installation on pre-cut plates (page **85)** or direct installation on the enclosures with our specific offer. Please consult us.
- 3 models: 7 to 35 cable entries.
- Cover for cut-out ref. **NSYAECPFLBP**.



DB300392EN

Features of the membranes

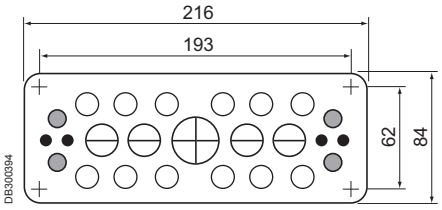
NSYAECPFLT7



DB300393

Symbol	For cable Ø	No. of entries
●	8-16	4
○	24-54	2
◉	30-60	1

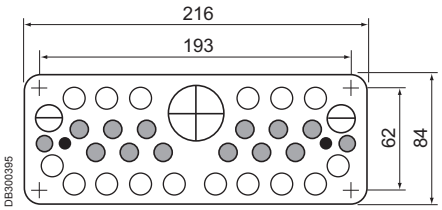
NSYAECPFLT25



DB300394

Symbol	For cable Ø	No. of entries
●	5-7	4
◉	8-12	4
○	10-14	12
⊖	14-20	4
⊕	20-26	1

NSYAECPFLT35



DB300395

Symbol	For cable Ø	No. of entries
●	6-10	2
◉	8-12	14
○	10-14	16
⊖	12-18	2
⊕	17-32	1

Cable management
Cable entries

FL 13

FL 21

FL 13 or FL 21 membranes type “A” for cable entrance

- 4 models: 2 models FL 13 and 2 models FL 21, RAL 7035.
- Installation on cut-out cable-entry plates with FL 13 or FL 21 cut-outs or direct installation on enclosures with our specific offer. Please consult us.
- **Material:** TPE, SBS, SEBS and PP co-polymer – halogen free.
- **Certificates:**
  Cable anchorage pull test: EN 50262.
  Long term UV-resistance: ASTM G 154-06.
- **Degree of protection:** IP 65.
- **Temperature range:** –40 to +85 °C.
- **Resistance/Cable retention (daN):** > 20 daN.

Type	Nb of entrances	13	14	15	16	18	21	30	Ref.
FL 13	7			4			3		**NSYAECPFLA7**
FL 13	10	6			4				**NSYAECPFLA10**
FL 21	25		16			6		3	**NSYAECPFLA25**
FL 21	33		24			9			**NSYAECPFLA33**

NSYAECPFLA7

3 x 21 + 4 x 15 mm

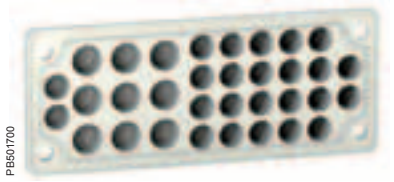
NSYAECPFLA10

4 x 16 + 6 x 13 mm

NSYAECPFLA25

3 x 30 + 6 x 18 + 16 x 14 mm

NSYAECPFLA33



9 x 18 + 24 x 14 mm

Dimensions

Type	Dimensions (mm)			Ref.
	Height	Width	Depth	
FL 13	20	135	47	**NSYAECPFLA7**
FL 13	20	135	47	**NSYAECPFLA10**
FL 21	25	215	86	**NSYAECPFLA25**
FL 21	25	215	86	**NSYAECPFLA33**

Cable management
Cable entries

PB501701

Cable clamp for improved cable retention

Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.

Material: PA6 – halogen free.
Temperature range: –40 to +85 °C.

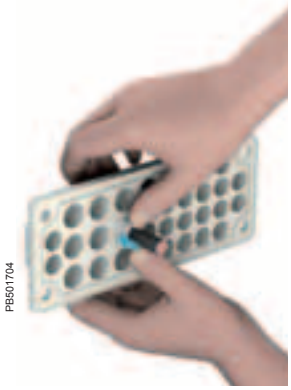
Installation process

1. Push the cable through the membrane entrance to the desired position.
2. Put the cable clamp around the cable and slide it into the cable entry.
3. Push the cable clamp fully into the membrane entrance and the cable will be fixed.

Secure your installation with an easy solution for cable anchorage

PB501702

PB501703


PB501704

Cable clamp outer diameter (mm)	Membrane entrance diameter (mm)	Cable diameter range (mm)	Supply	Ref.
15	14	7-9	Set of 8	**NSYAECPFLACA14**
18	18	9-11	Set of 6	**NSYAECPFLACA18**
20	18	10-12	Set of 6	**NSYAECPFLACA20**
30	30	20-23	Set of 3	**NSYAECPFLACA30**

PB501705

2 x 30 + 3 x 18 + 5 x 14 mm

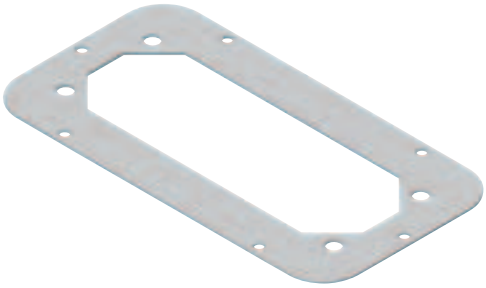
Blanking plugs

Installation on FL 21 membrane type "A" for cable entrance to fill the opening used.

Material: LDPE – halogen free.
Temperature range: –30 to +50 °C.

Description (mm)	Ref.
Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm	**NSYAECPFLAP**

Cable management
Cable entries



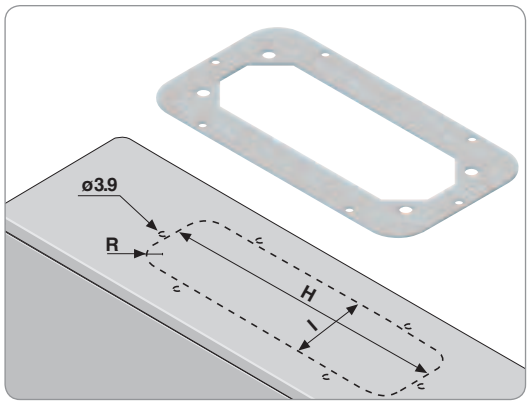
PB500604

Steel adapter plate for FL 13 and FL 21 membranes

- Allows the mounting of FL 13 and FL 21 membranes on every type of enclosure.
- Water tightness: IP 55.
- Delivered with fixing screws and gasket.

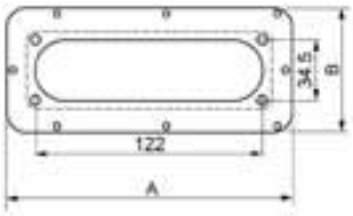
Dimensions

Type	Plate dimensions		Cut-out dimensions	
	A	B	H	I
B	245	80	212	47
C	245	130	212	97
D	345	130	312	97
E	445	130	412	97
F	545	130	512	97
G	495	220	462	187

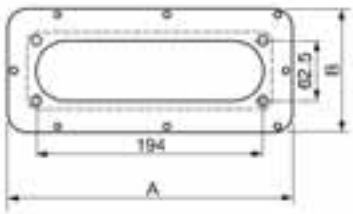


DB300720EN

Adapter dimensions

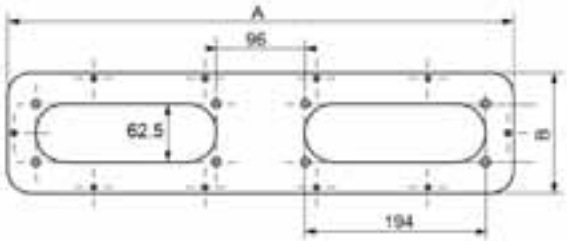


DB300719EN

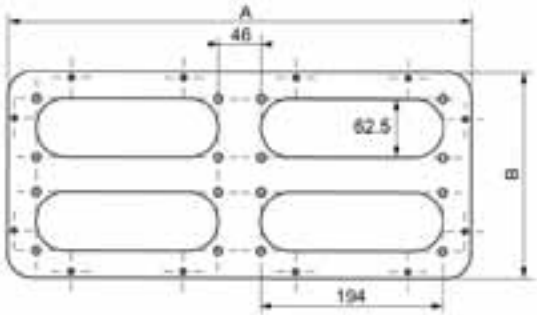


Reference
NSYTLBFL*
NSYTLCFL
NSYTLDFL
NSYTLEFL
NSYTLFFL
NSYTLGFL

* FL 13 cut-out.



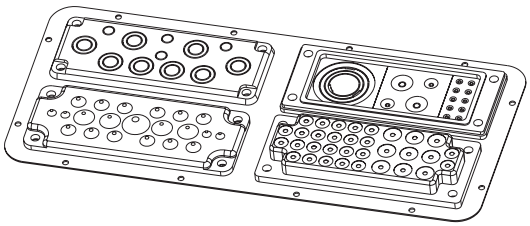
Reference
NSYTLF2FL
NSYTLG2FL



DB300094EN

Reference
NSYTLG4FL

Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate

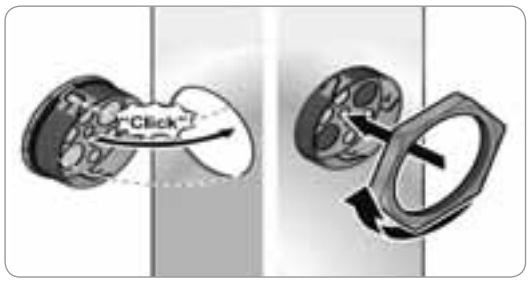


DB300718

Application example

Cable management
Cable entries

PB500024



DB300396

IP 65 connector-free cable entries: Two solutions to suit your application

Circular

Compact, flexible system for inserting cables in electrical enclosures or connection boxes, for example:

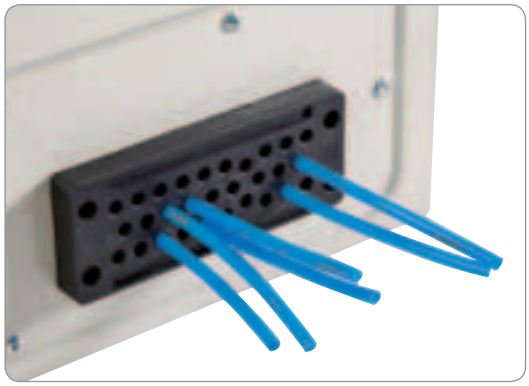
Specifications
- IP 65 tightness.
- Fire resistance: V0.
- Cut-outs Ø 50 and 63 mm.
- Installation by nut, up to Spacial wall-mounting steel enclosure size 700 x 500 x 250 mm.
- 2 installation methods are possible for sizes larger than 700 x 500 x 250 mm: clipping or screwing (installation by screwing recommended).

Composition: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

DB300397

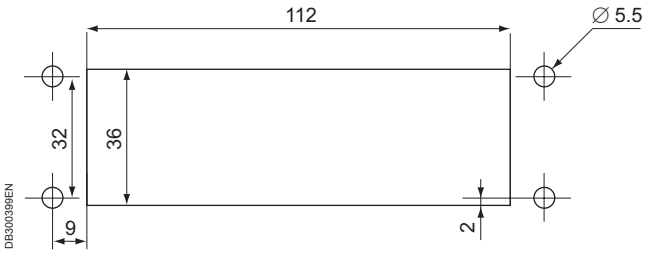
DB300398


PB500023

Rectangular

Compact, flexible system for inserting cables in electrical enclosures or connection boxes, for example:
- External dimensions: 146 x 14 x 58 mm.
- Drill-hole diameter: 112 x 36 mm.

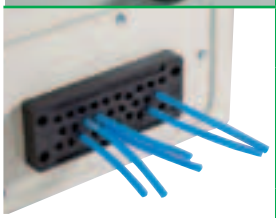
Specifications
- IP 65 tightness.
- Fire resistance: V0.
- Identical cut-outs to the 24-point connectors.
- Installation by screwing, up to Spacial wall-mounting steel enclosure size 700 x 500 x 250 mm.
- 2 installation methods are possible for sizes larger than 700 x 500 x 250 mm: clipping or screwing (installation by screwing recommended).



DB300399EN

Cable management
Cable entries

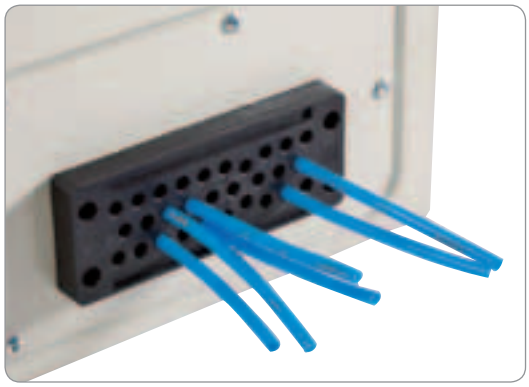
Selection guide

Type	No. of openings	Dimensions/ cut-out Ø	Diameter of the cable entry (Ø mm)								Packaging	Reference
			3-5.5	4.3-8.1	3-6.5	3.6-6.5	5-9.2	6-10	8-12.5	9.6-15.9		
PB500024	4	50.5						3		1	10	NSYTSAM504SE
	8	50.5				7		1			10	NSYTSAM508SE
	8	63.5			2		4			2	10	NSYTSAM638SE
	13	63.5	6			6		1			10	NSYTSAM6313SE
 PB500023	14	112x36			6		4				1	NSYTSA2414SE
	17	112x36					17			4	1	NSYTSA2417SE
	22	112x36			16		4		2		1	NSYTSA2422SE
	23	112x36		23							1	NSYTSA2423SE
	29	112x36			29						1	NSYTSA2429SE

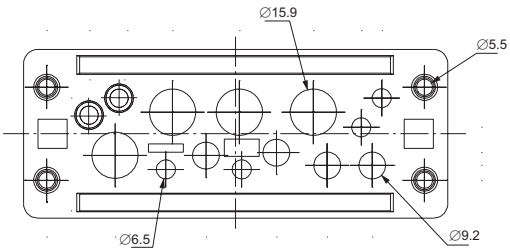
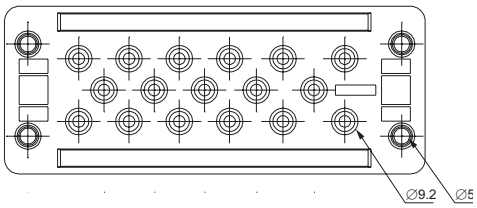
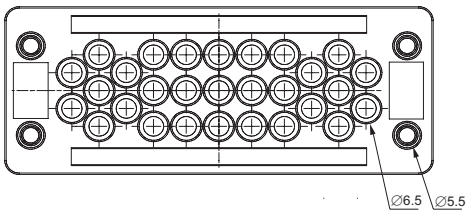
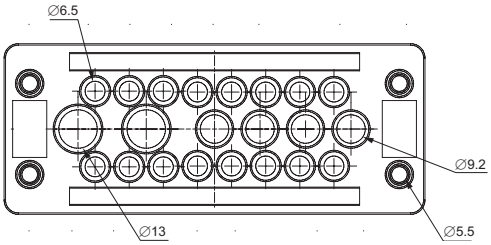
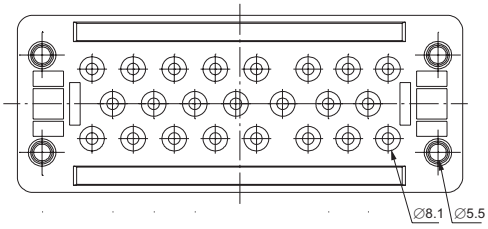
Position of the holes on the circular cable entries with diameters 50 and 63 mm

Type	Hole diameter	Reference
DB300400	1 x Ø 9.6 to 15.9 mm 3 x Ø 6 to 10 mm	NSYTSAM504SE
DB300401	7 x Ø 6 to 10 mm 1 x Ø 6 to 10 mm	NSYTSAM508SE
DB300402	2 x Ø 3 to 6.5 mm 4 x Ø 5 to 9.2 mm 2 x Ø 9.6 to 15.9 mm	NSYTSAM638SE
DB300403	6 x Ø 3 to 5.5 mm 6 x Ø 3.6 to 6.5 mm 1 x Ø 6.0 to 10.0 mm	NSYTSAM6313SE

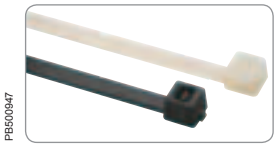
Cable management
Cable entries


PB500023

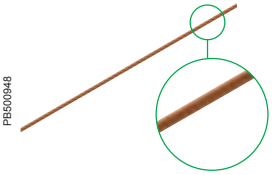
Diagrams of dimensions and positions of the holes on a rectangular cable entry

Cable entries (mm)	Type	Reference
6 x 3 to 6.5 4 x 5 to 9.2 4 x 9.6 to 15.9	 DB300404EN	NSYTSA2414SE
17 x 9.2	 DB300405EN	NSYTSA2417SE
29 x 3 to 6.5	 DB300406EN	NSYTSA2429SE
16 x 3 to 6.5 4 x 5 to 9.2 2 x 8 to 12.5	 DB300407EN	NSYTSA2422SE
23 x 4.3 to 8.1	 DB300408EN	NSYTSA2423SE

See also the accessories


PB500947

Adjustable cable tie
page **441**

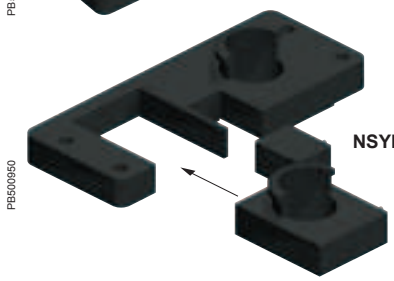

PB500948

Earthing strip
page **479**

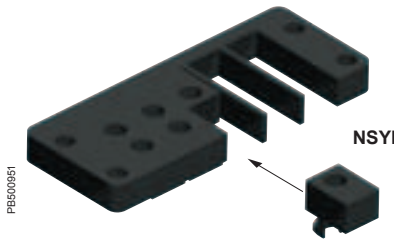
Cable management
Cable entries

PB500949

NSYDCE240


PB500950

NSYDCE244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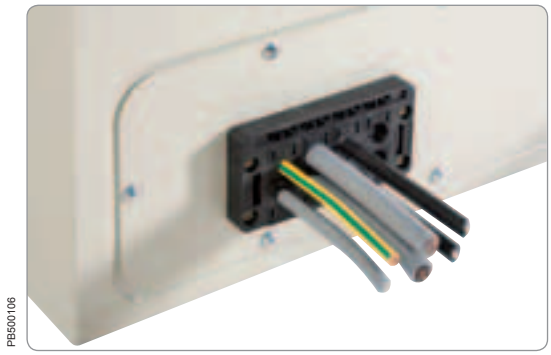
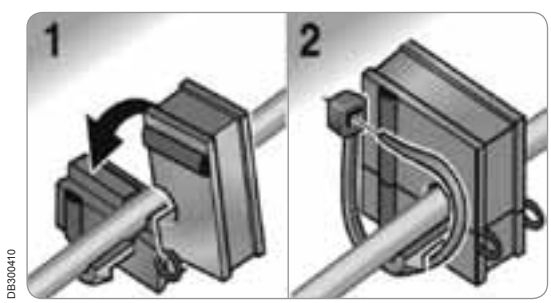
NSYDCE2410


PB500106

Example of installation on cable-entry plate.

PB500952



DB300410

Adjustable cable tie see on page **441**.

Die for entry of cables equipped with connectors

System in two parts for inserting cables and hoses in the boxes.
- Various split seals suited to the cable diameter.

Specifications

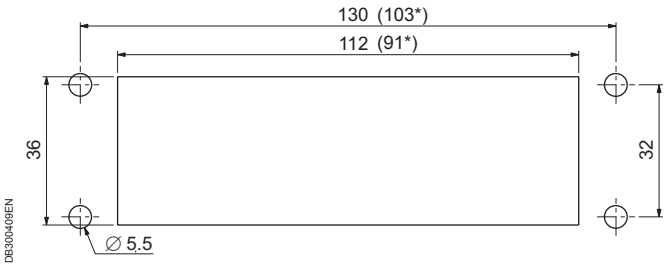
- IP 54 tightness.
- Identical cut-outs to the 16-point or 24-point connectors.
- Installation by screwing, up to Spacial steel enclosure size 700 x 500 x 250 mm.

Composition: 1 die and fixing elements.

Connector cut-out type	Number of cable entries	Reference
16	8	**NSYDCE168**
24	0	**NSYDCE240**
24	4	**NSYDCE244***
24	10	**NSYDCE2410**

* NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

Cut-out for reference NSYDCE24•••



DB300409EN

*Cut-out for reference **NSYDCE16•••**.

Split seals for cable entries equipped with connectors

Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. **NSYDCE•••**.

Composition: 10 units.
Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

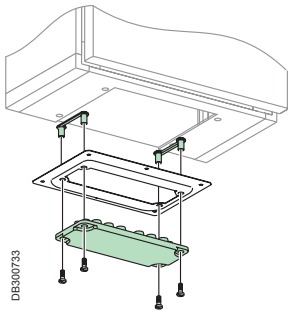
For cables Ø (mm)*	Reference
0	**NSYCEJD**
3-4	**NSYCEJD3**
5-6	**NSYCEJD5**
7-8	**NSYCEJD7**
9-10	**NSYCEJD9**
11-12	**NSYCEJD11**
13-14	**NSYCEJD13**
16-17	**NSYCEJD16***
18-19	**NSYCEJD18***
20-21	**NSYCEJD20***
22-23	**NSYCEJD22***
24-25	**NSYCEJD24***
26-27	**NSYCEJD26***
28-29	**NSYCEJD28***
30-31	**NSYCEJD30***

* Large seal, 24/4 die only.

Cable management
Other cable-gland solutions

Cable-gland plate made of insulating material (pre-drilled or with membrane) in FL21 or rectangular version

They can be used for entering cables with different cross-sections through the bottom of the enclosure while maintaining the IP 55 degree of protection.



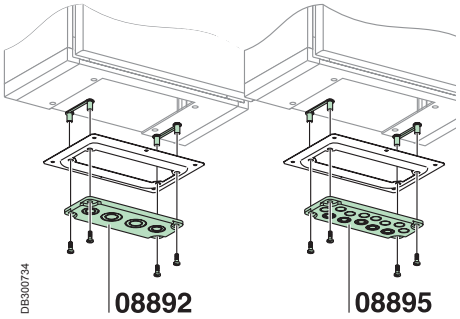
Plain cable-gland plates FL21

Description	Reference
Solid cable-gland plates	**08881**

Pre-drilled cable-gland plates FL21

Suitable for receiving cable glands with metric pitch.

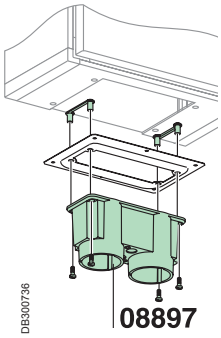
Description	Reference
Pre-drilled cable-gland plates 2 x M20 or M32 + 2 x M25 or M40	**08892**
Pre-drilled cable-gland plates 5 x M16 or M25 + 8 x M20	**08895**



Membrane cable-gland plates FL21

Membrane to be drilled according to the required diameter.

No. entries	Amount of entries per diameter	Cable diameter comprised between		Reference
		Min.	Max.	
2	2	28	60	**08897**



Other membrane cable-gland plates

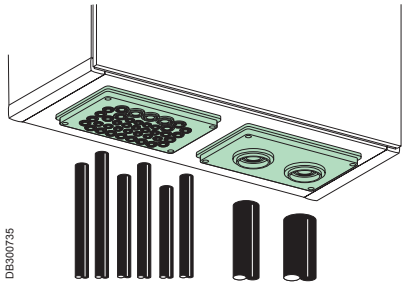
IP 55 membrane to be drilled with the required diameter.

Pre-drilled cable-gland plates for opening of 225 x 137

Suitable for receiving cable glands with metric pitch.

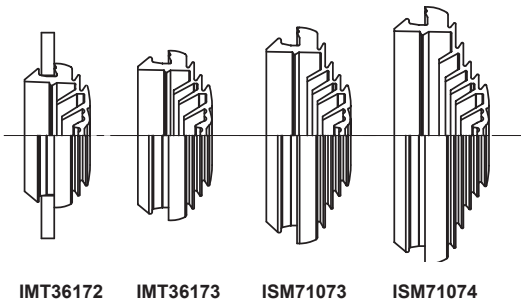
Description	Reference
Cable-gland plate with 39 entries from 7 to 26	**08898***
Cable-gland plate with 2 entries from 33 to 72	**08899**

* Reference 08898 is made up of:
3 cables with diameters from 14 to 26.
4 cables with diameters from 10 to 20.
32 cables with diameters from 7 to 16.

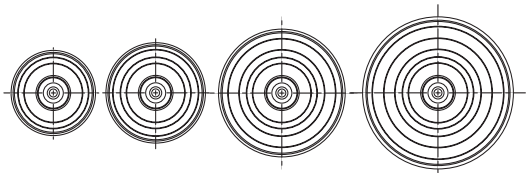


Cable management
Cable entries

PB500266



DB300411


DB300412

Mixed membrane entries for IP 55 direct cable entries

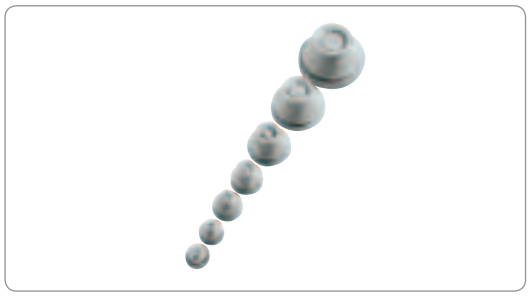
Common accessories for the Thalassa and Spacial offers

- Membrane entries with multiple membranes.
- IP 55.
- RAL 7035.
- Patented concentric cutting. A simple screwdriver is enough. Enables ultra-quick connection with the choice of several cable diameters for the same membrane entry.
- Material: SBS.
- Minor packaging of 10 pieces.
- Warning: The IP becomes 55.
- Suitable for walls from 2 to 3.2 mm.

Ø (mm)		Minor pack.	References and colours	
Drill hole	Cable / conduit		RAL 9010 white	RAL 7035 light grey
23	4 - 20	10	**IMT36172**	**ISM71071**
29	4 - 25	10	**IMT36173**	**ISM71072**
36	4 - 32	10	-	**ISM71073**
44	4 - 40	10	-	**ISM71074**

Installation of IP 55 entries

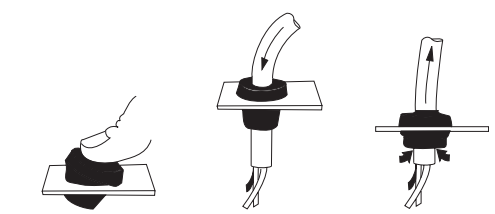
- Insertion of rigid cables:
– Strip at least 100 mm.
– Push the wires through the membrane.
- Insertion of flexible cables:
- Pierce partially and soften the membrane with a 4 to 5.5 mm screwdriver.
– Pass the cable through the membrane.
- Insertion of conduits:
– Peel the necessary step: 16, 20, 25, 32 or 40 mm.
– Push the conduit.


PB500267

IP 67 quick cable entries

- IP 67.
- Material: EPDM plastic.
- Suitable for walls from 1 to 4 mm (0.5 to 2 mm for ref. **IMT36179**).
- Quick installation with no tools.
- Installation direction: the conical part is inside the box.

ISO	Ø of drill hole	Cable Ø (mm)	Minor pack.	Reference
M12	12.5	3 - 5	50	**IMT36179**
M16	16	5 - 7	50	**IMT36180**
M20	20.3	7 - 10	50	**IMT36181**
M25	25.3	10 - 14	50	**IMT36182**
M32	32.4	14 - 20	50	**IMT36183**
M40	40.7	20 - 26	25	**IMT36184**
M50	50.7	26 - 35	25	**IMT36185**


DB300413

Application

- Push the cable entry into the hole. The conical part must be inserted into the box.
- Prepare and loosen the cable entry with a screwdriver. Pass the cable through the cable entry.
- Pull the cable back slightly to fix it in place. The installation is complete.

Cable management
Cable entries

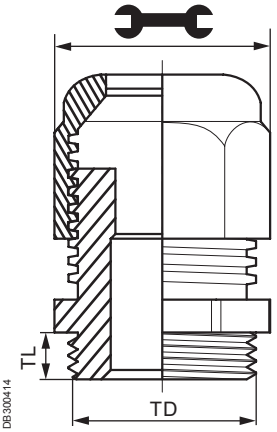
Cable-gland, disc and plug selection table

Ø	1-cable cable gland			Multi-cable disc		Gasket	Blanking plug	Transport plug
	Ref.	Ø min / max (mm)	drill \ (2)	Ref.	Number / Ø (mm)			
M12	**ISM71501**	3 / 6.5	12.2 (0 + 0.2)	-	-	**IMT36151**	**IMT36161**	-
M16	**ISM71502**	4 / 8	16.2 (0 + 0.2)	**IMT36157**	2 x Ø 4	**IMT36152**	**IMT36162**	**IMT36167**
M20	**ISM71503**	6 / 12	20.2 (0 + 0.2)	**IMT36158**	3 x Ø 4	**IMT36153**	**IMT36163**	**IMT36168**
M20 (1)	**IMT36150**	6 / 12	20.2 (0 + 0.2)	**IMT36158**	3 x Ø 4	**IMT36153**	**IMT36163**	**IMT36168**
M25	**ISM71504**	11 / 17	25.2 (0 + 0.2)	**IMT36159**	4 x Ø 5	**IMT36154**	**IMT36164**	**IMT36169**
M32	**ISM71505**	15 / 21	32.2 (0 + 0.3)	**IMT36160**	6 x Ø 5	**IMT36155**	**IMT36165**	**IMT36170**
M40	**ISM71506**	19 / 28	40.5 (0 + 0.3)	-	-	**IMT36156**	**IMT36166**	**IMT36171**

(1) Cable-gland with high resistance to fire.
(2) In brackets: tolerance.

ISO cable-gland

Ø	Reference	TD	TL		Thread
M12	**ISM71501**	12	6	15	1.5
M16	**ISM71502**	16	8	19	1.5
M20	**ISM71503 - IMT36150**	20	10	24	1.5
M25	**ISM71504**	25	8	29	1.5
M32	**ISM71505**	32	10	36	1.5
M40	**ISM71506**	40	10	46	1.5



- IP 68, 5 bars.
- According to standard IEC 62208.
- RAL 7035 grey.
- Material: PA6, neoprene gasket.
- Usage temperature: – 30 ... + 80 °C up to + 150 °C intermittently.
- The cable-glands are supplied with nuts.
- The IP is guaranteed with no gasket between the cable-gland and the thermoplastic box. A gasket available as an accessory guarantees the seal in the event of installation on a steel enclosure.
- The cable-gland (ref. **IMT36150**) is especially recommended for security circuits (glow wire resistance: 960 °C).
- Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40).

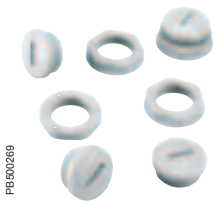
Multi-cable disc

Cable-gland gasket

- Batch of 100 (M12 to M25), 50 (M32), 25 (M40).

Multi-cable disc

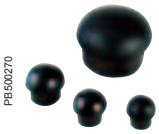
- It is possible to pass several cables through a single cable-gland using the multi-cable bushing.



Blanking plug

Blanking plug

- It is screwed into the cable-gland's place.
- Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40).



Transport plug

Transport plug

- It is installed to block the cable-gland during transport or during maintenance operations.
- Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40).

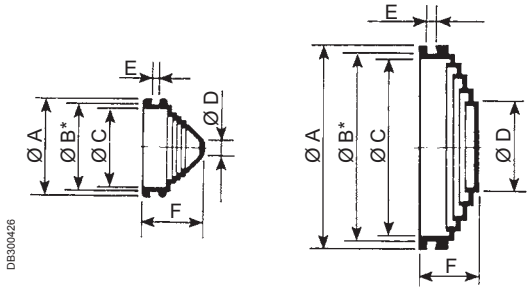
Cable management
Cable entries

PVC adjustable cone-shaped entries

PVC insulating cone-shaped entries which can be cut according to the volume of cables. Installation on insulating distribution boxes and protection boxes; generally suitable for thicknesses matching the dimension E.

Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Composition	Reference
							Cable Ø	Tube		
1	25	21.5	18	5	3.2	13	5 to 18	Pg. 9 to 11	50	**NSYECPC3**
1	33	29.5	26	5	3.2	20	5 to 26	Pg. 9 to 16	25	**NSYECPC5**
1	43	38.5	36	5	3.2	22	5 to 36	Pg. 9 to 21	25	**NSYECPC6**
2	70	63	60	28	3	20	28 to 60	Pg. 21 to 48	10	**NSYECPC9**
2	98	90	87	28	3	23	28 to 87	Pg. 21 to 48	10	**NSYECPC15**

*Drill-hole for mounting.

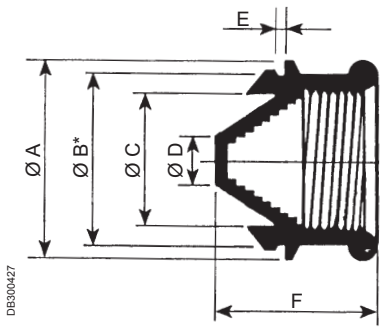


PVC adjustable cone-shaped entries

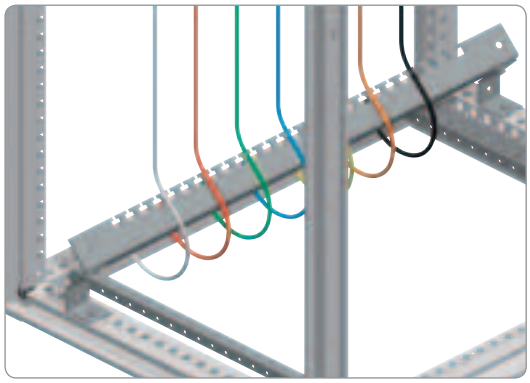
PVC insulating cone-shaped entries, threaded for the entry of Pg tubes and detachable rear for cable entry. They allow the entry of all types of normal and flexible cables and tubes, with diameters comprised between the dimension B and the thread root (maximum Ø).

Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Composition	Reference
						Cable Ø	Tube		
25	19.5	16	3	1.2	21	3 to 16	Pg. 9	50	**NSYEC1**
25	19.5	16	6	1.2	21	6 to 16	Pg. 11	50	**NSYEC2**
27	21.5	18	7	1.2	23	7 to 18	Pg. 13.5	50	**NSYEC3**
29.5	23.5	20	8	1.2	26	8 to 20	Pg. 16	25	**NSYEC4**
35	29.5	26	10	1.2	27	10 to 26	Pg. 21	25	**NSYEC5**
42	38.5	35	12	1.5	30	12 to 35	Pg. 29	25	**NSYEC6**
52	48.5	44	13	1.5	30	13 to 44	Pg. 36	25	**NSYEC7**

*Drill-hole for mounting.



Cable management
Cable holding


PB500968

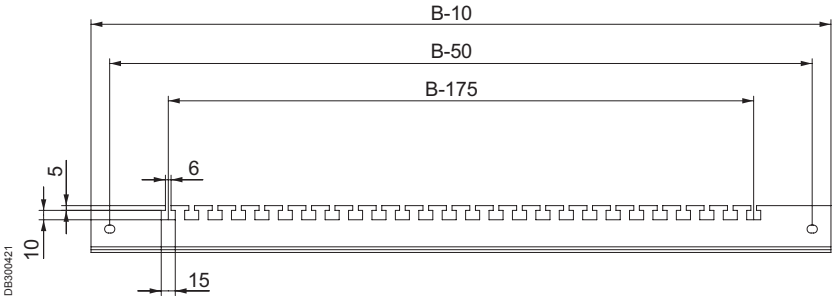
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

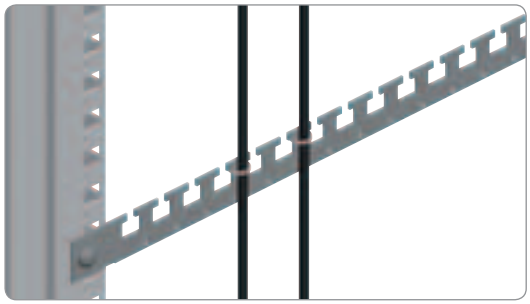
Lower cable-guide cross-rail

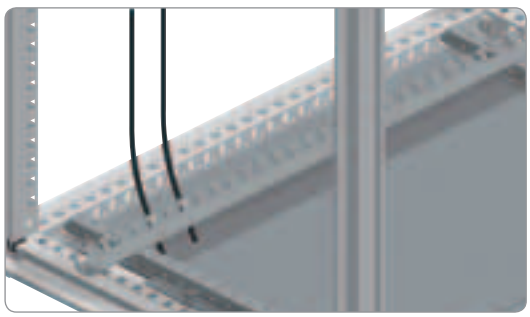
- It allows quick fixing of cables entering and exiting the enclosure.
- Depth adjustable every 25 mm.
- Spacial SF: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page **342**.
- Spacial SM: for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required.
- Spacial SFX: no adaptation piece is required for the 1200 mm suitable enclosures.
- Spacial SMX: no adaptation piece is required for the 1600 mm floor-standing enclosures.
- Material: galvanised steel.

Composition: 1 cable-guide cross-rail and fixing elements.

Spacial dimensions (mm) Width (B)	Reference
600	**NSYCFP60**
800	**NSYCFP80**
1000	**NSYCFP100**
1200	2 x **NSYCFP60**
1600	2 x **NSYCFP80**




PB500969


PB500970

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Cable-guide cross-rails for framework

- Spacial SF and SFX: support for direct mounting on the framework, cross-rails or rails.
- Spacial SM: fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position.
- Spacial SMX: fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position.
- Support types:

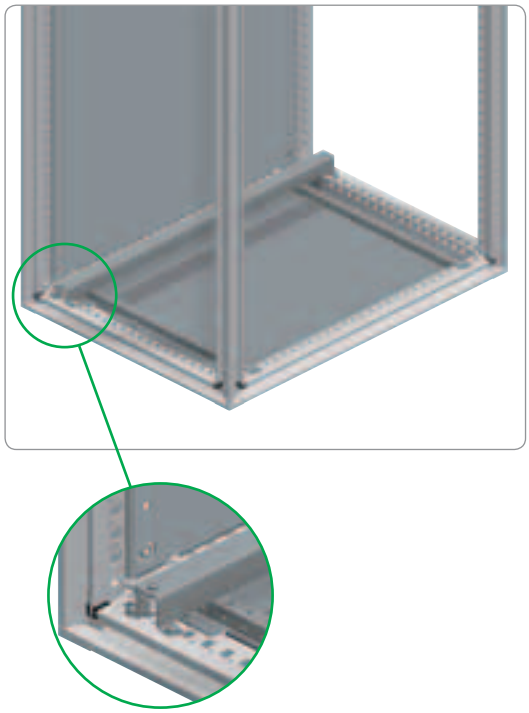
– Angle support at 90°: for vertical cable fixing.
– Angle support at 120°: for fixing cables near the cable entry.

- Material: zinc-coated steel.

Composition: 2 supports and fixing elements.

Nominal dimensions (mm) Width / Depth (B / C)	Support angle	Reference
600	90°	**NSYCFS96**
	120°	**NSYCFS126**
800	90°	**NSYCFS98**
	120°	**NSYCFS128**

Cable management
Cable holding


PB500971

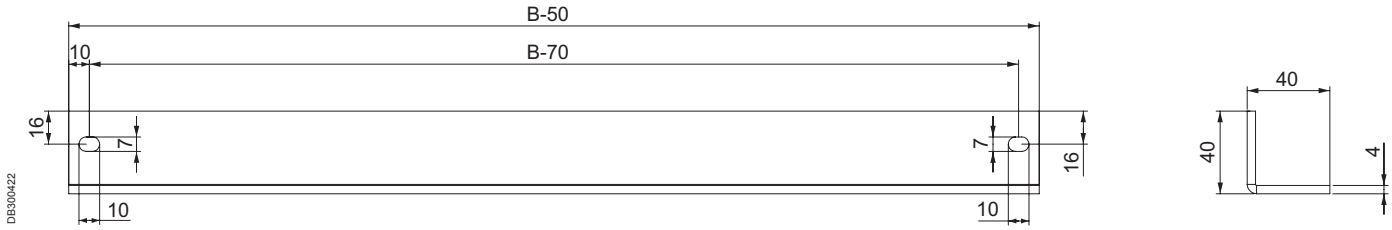
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

L-rail for fixing cables

- Rail for fixing cables entering from the bottom.
- **Spacial SF and SFX:** fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page **141**.
- **Spacial SM and SMX:** fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page **141**.
- Adjustable depth with a pitch of 25 mm.
- The cables are fixed to the rail by means of metal clamps.
- Material: zinc-coated steel.
- It is not possible to mount it on a plinth cross rail.

Supply: one rail, two mounting supports and fixing elements.

Nominal dimensions (mm)	Reference
Width	
600	**NSYFCG60**
800	**NSYFCG80**
1000	**NSYFCG100**
1200	**NSYFCG120**
1600	**NSYFCG160**



DB300422

PB500967

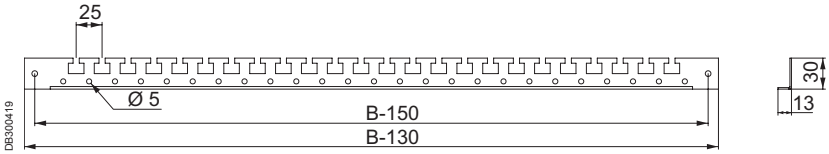
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Door cable-guide cross-rail

- Recommended for fixing cables in the internal equipment of the door.
- Direct fixing on the reinforcement frame.
- Height adjustable every 25 mm.
- Material: zinc-coated steel.

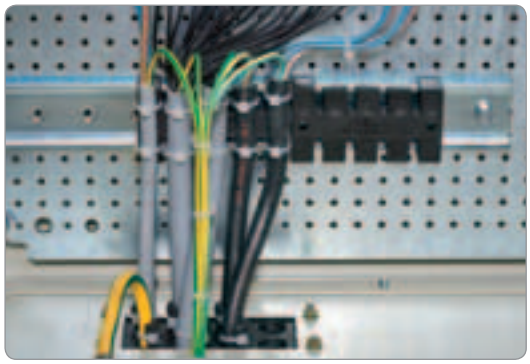
Composition: 2 cable-guide cross-rails and fixing elements.

Spacial dimensions (mm)	Reference
Width (B)	
500	**NSYSDGCR5**
600	**NSYSDGCR6**
800	**NSYSDGCR8**
1000	**NSYSDGCR10**



DB300419

Cable management
Cable holding


PB500966

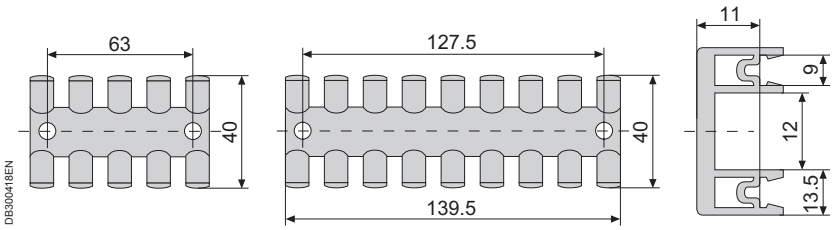
Plastic cable support

- It clips or screws onto 35 mm symmetric rails or a C-shaped rail.
- Quick and easy fixing of cables using cable ties.

Composition: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Width (mm)	Maximum no. of cables	Reference
75	5	**NSYSCCDINLG75**
140	9	**NSYSCCDINLG140**



DB300418EN

PB500333

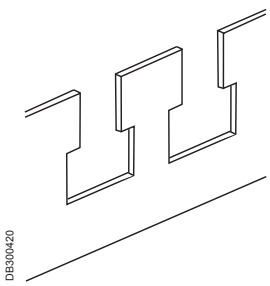
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

Door cable-guide cross-rails for wall-mounting enclosures

- They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D/CRN and 500 mm for Spacial S3X.
- They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door.
- They make it easy to equip the inside of the door.
- Installation cable ties, page **441**.

Composition: 2 cable-guide cross-rails and fixing elements.

Door width (mm)	Reference
400	**NSYTFPCRN4**
500	**NSYTFPCRN5**
600	**NSYTFPCRN6**
800	**NSYTFPCRN8**
1000	**NSYTFPCRN10**


DB300420

Thorsman
Cintura Cable Ties

Description
Cable ties are used to bundle up and fix cables, conduits and tubing.

There are two types of Thorsman Cintura cable ties available;
- Made of clear polyamide, only for indoor use.
- Made of UV-stabilized black polyamide, for outdoor use.

The cable ties are self-locking. They cannot be opened and re-sealed.
The cable ties have smooth rounded edges for easier handling and safer installation.
The bent rounded tip allows easier insertion through the head of the cable tie.

Material & operative data
PA (Polyamide) 6.6, halogen-free
- Colour
- Clear

PA (Polyamide) 6.6 UV-stabilized, halogen-free
- Colour
- Black

Melting point
- 250 °C

Hot wire test (NF C 20-455)
- 650 °C / 30 s

Flammability properties
- Self-extinguishing acc. to UL 94 class V-2

Temperature range
- - 40 °C – + 85 °C

Resistance to chemical agents
- Totally resistant to:
- motor oils,
- greases,
- oil products.
- Good resistance to:
- organic bases/acids,
- chlorinated solvents.
- Limited resistance to:
- acids.
- No resistance to:
- phenol.

Resistance to tearing

Tie width (mm)	Minimal resistance to tearing (kg)
2.5	8
3.6	13.6
4.8	22
7.6	54.5
8	80

Product Environmental Facts
Product Environmental Fact files are available on www.schneider-electric.com

Thorsman
Cintura Cable Ties

Cable ties

110150

110151

Max. clamping	Colour	Length (mm)	Qty per package	Ref. No.
Cable ties				
Cable tie for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions. Material: PA 6.6.				
Cable tie width 2.5				
Ø 18 mm	Clear Black	100	1000	**ENN46902** **ENN46952**
Ø 30 mm	Clear Black	120	1000	**ENN46904** **ENN46954**
Ø 50 mm	Clear Black	200	1000	**ENN46906** **ENN46956**
Cable tie width 3.6				
Ø 33 mm	Clear Black	140	1000	**ENN46908** **ENN46958**
Ø 50 mm	Clear	200	1000	**ENN46939**
Ø 76 mm	Clear Black	295	100	**ENN46910** **ENN46960**
Ø 102 mm	Clear	370	100	**ENN46942**
Cable tie width 4.8				
Ø 43 mm	Clear Black	188	1000	**ENN46914** **ENN46964**
Ø 50 mm	Clear Black	200	1000	**ENN46916** **ENN46966**
Ø 60 mm	Clear Black	250	100	**ENN46918** **ENN46968**
Ø 76 mm	Clear Black	300	100	**ENN46919** **ENN46969**
Ø 102 mm	Clear Black	368	100	**ENN46920** **ENN46970**
Cable tie width 7.6				
Ø 76 mm	Black	297	100	**ENN46974**
Ø 102 mm	Clear Black	368	100	**ENN46925** **ENN46975**
Cable tie width 9.0				
Ø 120 mm	Black	430	100	**ENN46976**
Ø 140 mm	Clear Black	530	100	**ENN46927** **ENN46977**
Ø 228 mm	Black	775	100	**ENN46978**

Identification ties

P121326

P121329

P121328

Identification ties				
Identification tie with marker for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions. Material: PA 6.6.				
Marker size 20 x 9 mm, width 2.5 mm				
Ø 18 mm	Clear	110	100	**ENN46220**
Marker size 25 x 8 mm, width 2.5 mm				
Ø 18 mm	Clear	100	100	**ENN46222**
Marker size 23 x 13 mm, width 4.8 mm				
Ø 43 mm	Clear	220	100	**ENN46225**

Thorsman
Cintura Cable Ties

Accessories

	For max. tie width	Colour	Dimensions H x W x D (mm)	Qty per package	Ref. No.
	Self-adhesive bases				
	Self-adhesive base for the fixing of cable ties. The base for max. tie width 4.8 mm is both self-adhesive and has an additional screw-fix option. Material: PA 6.6.				
P121327	3.6 mm	Clear	19 x 19 x 6	100	**ENN46104**
P121325	4.8 mm	Clear	26.5 x 26.5 x 8	100	**ENN46105**
	Cradle				
P121330	Cradle for the fixing of cable ties. Fixed with screw or rivet. Material: PA 6.6.				
	7.8 mm	Clear	22.2 x 15.9 x 9.7	100	**ENN46109**
	Cable tie pincers				
	Pincers intended to facilitate tightening and cutting of 6 and 9 mm installation ties. Material: Steel.				
	6 to 9 mm	-	-	1	**ENN46150**

Cable management

PB500962

Corrugated cable tube

- Corrugated tube allowing cable entry between the structure and the door.
- Free from halogens and heavy metals.
- UV protection.
- Material: low-density polyethylene (LDPE), black.

Composition: one 25 m reel.

Nominal diameter (mm)	Inner Ø (mm)	Outer Ø (mm)	Reference
17	16.6	21.2	**NSYCPT17**
29	29	34.5	**NSYCPT29**
37	36	42.4	**NSYCPT37**
50	47.7	54.5	**NSYCPT50**

PB500963

Fixing support for corrugated tube

- Fixing support for corrugated tube; it offers the following mounting options:
– Directly on the enclosure.
– On a 19" swing rack and/or on cross-rails, by means of a fixing point.
- The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
- The support is supplied with its cover.
- It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.
- Material: polyamide (PA), black.

Composition: 10 units and fixing elements.

PB500964

Model (n. Ø)	Reference
17	**NSYCPTS17**
29	**NSYCPTS29**
37	**NSYCPTS37**
50	**NSYCPTS50**

n. Ø = nominal diameter

Cable management

PB500965

Spiral cable duct

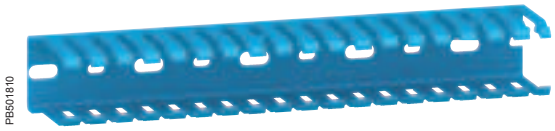
- Spiral strip for bundling cables.
- Allows cables to enter between the body and the door.

Supply: one 50 m reel.

Colour	Tightening range (mm)	Inner Ø (mm)	Outer Ø (mm)	Reference
Colourless	12 to 100	9	12	**NSYTC12100**

Cable management

PB501863


PB501810

Cable-duct

- Rigid PVC material; with lateral through slots and rear perforations. Supplied in lengths of 2 m. RAL-7030 grey colour or RAL-5000 blue.
- Compliance with standards VDE 0660/506 and DIN 43659.
- Temperature resistance: –5 ... +60 °C.
- Behaviour in fire: material V0 according to UL 94.
- Fire resistance: 960 °C according to IEC 60695-2-1/1.
- Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6).

Dimensions (mm)		Color	Supply (un)	Body Reference
Width	Height			
25	25	Grey	8	**AK2GD2525**
25	50	Grey	8	**AK2GD2550**
37.5	2	Grey	8	**AK2GD3750**
37.5	75	Grey	8	**AK2GD3775**
50	50	Grey	8	**AK2GD5050**
50	75	Grey	8	**AK2GD5075**
75	50	Grey	8	**AK2GD7550**
75	75	Grey	8	**AK2GD7575**
100	75	Grey	8	**AK2GD10075**
125	75	Grey	8	**AK2GD12575**
30	35	Blue	8	**AK2GA33**
30	55	Blue	8	**AK2GA35**
30	90	Blue	8	**AKEGA39**
30	144	Blue	8	**AK2GA315**
60	55	Blue	8	**AK2GA65**
60	90	Blue	8	**AK2GA69**
60	144	Blue	8	**AK2GA615**

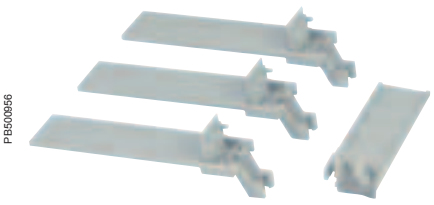
PB501811

PB501812

Covers for cable-duct

- Replacement covers.
- Supplied in lengths of 2 m.

For cable duct width (mm)	Colour	Supply (un)	Cover Reference
25	Grey	8	**AK2CD25**
37.5	Grey	8	**AK2CD37**
50	Grey	8	**AK2CD50**
75	Grey	8	**AK2CD75**
100	Grey	8	**AK2CD100**
125	Grey	8	**AK2CD125**
30	Blue	8	**AK2CA3**
60	Blue	8	**AK2CA6**


PB500956

Retention bars

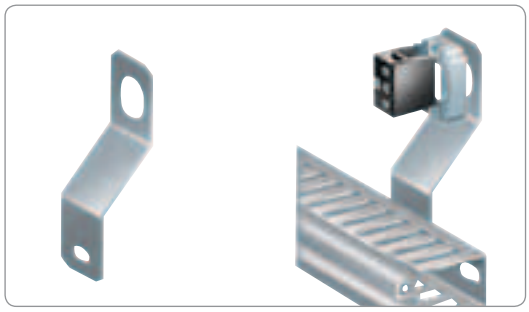
- Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout.
- They can be cut to length to adapt to the width of the ducting.
- Material: flameproof high-impact polystyrene.

Supply: 50 units.

Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference
NSYCDRB

Cable management



PB500218

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓		✓		✓	✓			✓	

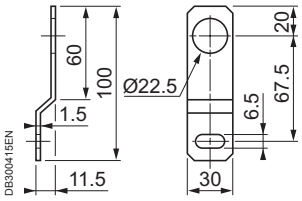
Ø 22 mm cable-duct support

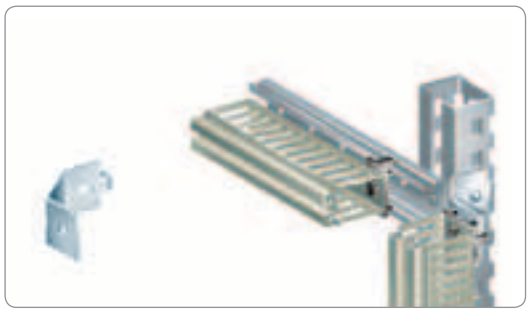
- Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.
- Material: treated steel.

Supply: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSPCP





PB500957

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓			✓	

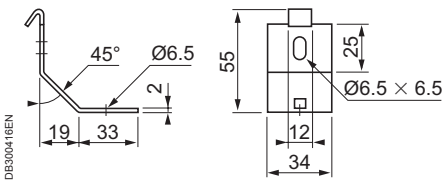
Cable-duct support on technical upright

- Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20% according to the width of the cable duct).
- Material: galvanised steel.

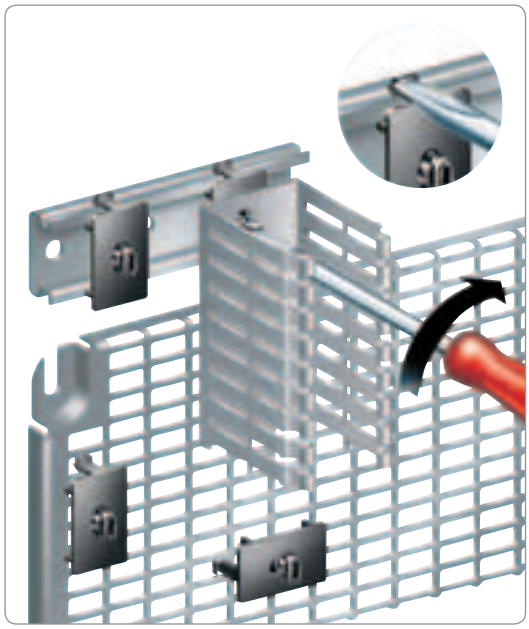
Supply: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYCDS



Cable management


PB500958

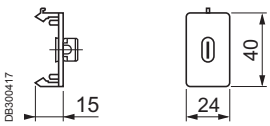
Plastic cable-duct support

- Clips onto the Telequick mounting plate or the 35 mm DIN rail.
- Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back.
- The 2 functions, clipping and bolting, provide considerable time savings.
- Material: black polyamide. Behaviour in fire: V0 according to UL 94.
- Respects electrical insulation.

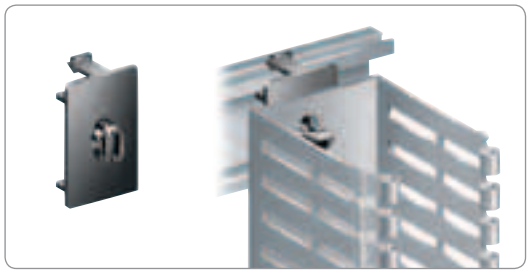
Supply: 20 units.

Reference by unit. Order by multiples of 20 (20, 40, 60...).

Reference
NSYSPC



DB300417


PB500775

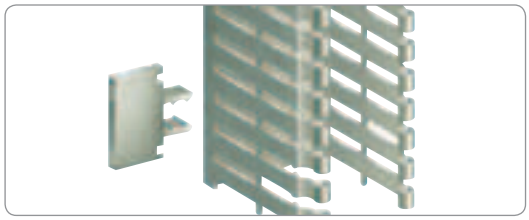
Label frame

- In transparent plastic, clipping onto the slats of the cable ducts. Paper labels supplied.
- Material: polycarbonate.

Supply: 50 units.

Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference
NSYCDL


PB500959

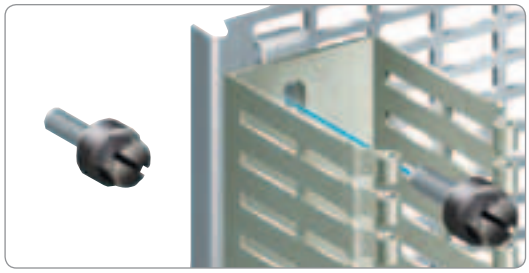
Insulated-head screw

- M5 x 10 mm slotted hexagonal head.
- Respects electrical insulation.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).

Reference
NSYSM10M5HP


PB500960

Cable management

PB500774

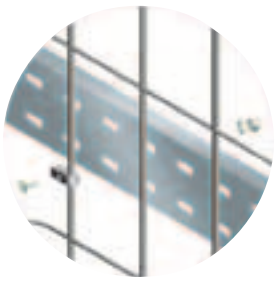
Lyre-shaped clamps

- Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.

Supply: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Use	Reference
For Telequick mounting plates and 19" racks	**AK2LA39**
For symmetric DIN rail 90 x 2.5 mm cables	**AK2LD01**
For symmetric DIN rail 75 x 2.5 mm cables	**AK2LD02**



PB500961

Steel wired cable tray

- Mounting on the cable supports.
- Made from zinc-coated steel wire.
- Dimensions (2 types):

– 1845 x 200 x 35 mm.
– 1845 x 200 x 54 mm.

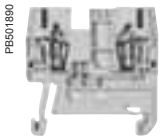
Supply: 1 vertical steel wired cable tray and fixing elements.

Necessary depth (mm)	Reference
35	**NSYBPC3**
70	**NSYBPC5**

Terminal blocks accessories

PB501799

Terminal blocks accessories
Contents



Spring technology 454

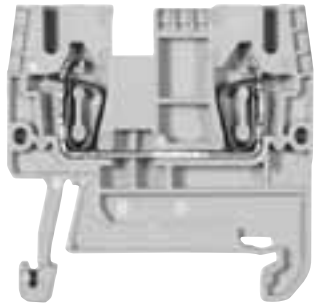
Screw technology 456

Terminal blocks

General

Depending on the application, all electrical equipment or installations require the connection of cables or wires in order to ensure the flow of very low or very high currents.

There are several types of connection:
- spring terminal connection,
- screw terminal connection,
- push-in connection.


PB501890
Terminal block type AB1 RRN

Spring technology terminal blocks

Presentation of terminal blocks AB1 RRN

AB1 RRN spring technology terminal blocks use the most cost effective connection technique in the market. This technique significantly reduces wiring time compared with screw technology. It also eliminates the need for regular re-tightening.

Spring technology is a type of connection that requires no maintenance and ensures the separation of mechanical and electrical functions.

This technology allows the connection not only of flexible conductors and of "flexible conductors with cable ends", but also of solid conductors with nominal c.s.a. of 0.13 mm² to 35 mm².

The material used (polyamide 6.6) provides better resistance at high temperatures. The inflammability class of these products is V0 according to UL 94.

PB501891
Simplified installation

PB501892
Principle of spring technology

Advantages of this technology

Spring technology offers the following advantages:
- Resistance to vibration and jolts.
- Wide range of cabling c.s.a.
- Possibility of distributing the potential with use of commoning links.
- Several surfaces available for marking.
- Possibility of testing all the terminal blocks.
- Numerous certifications.

Screw technology terminal blocks

Presentation

AB1 VV screw technology terminal blocks are components which are well-known and widely used throughout the world and are suitable for the vast majority of connection applications, due to their wide range of functions and connection possibilities.

AB1 VV terminal blocks ensure quality, safety and the operational availability of equipment. In addition to these advantages, they optimise the setting up and operation of installations, due to their simplicity and integrated functions.

The material used (polyamide 6.6) provides better resistance at high temperatures. The inflammability class of these products is V0 according to UL 94.

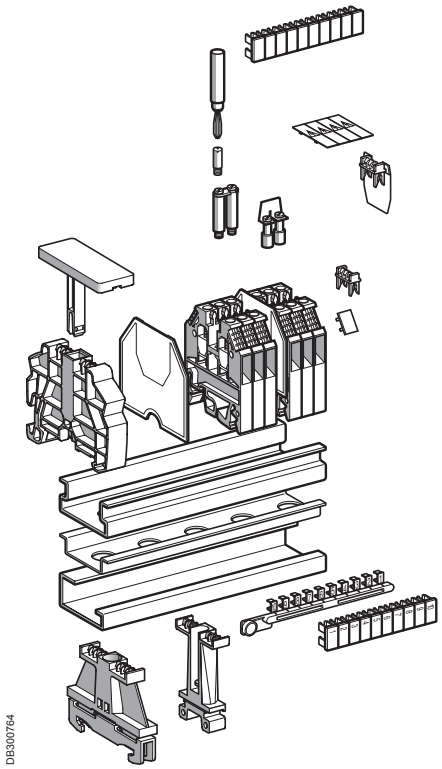
PB501893
Terminal block type AB1 VV

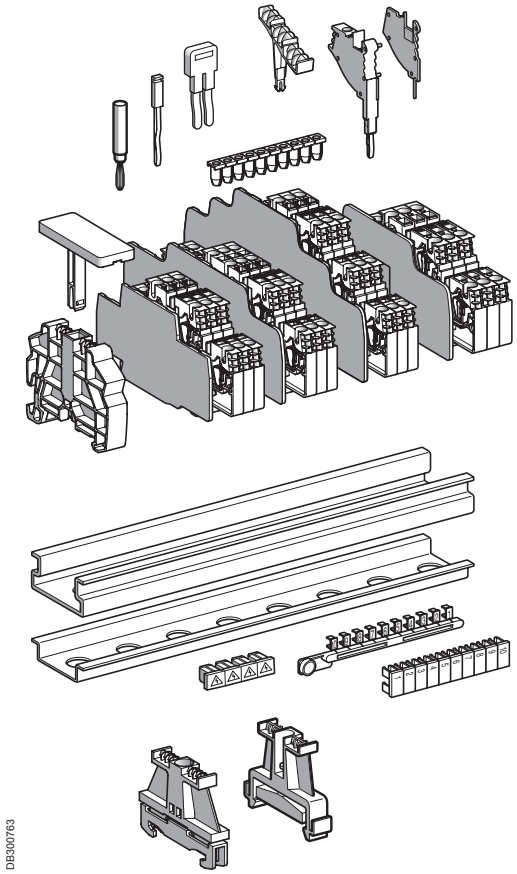
Advantages of this technology

Screw technology offers the following advantages:
- Numerous connection functions.
- Wide range of cabling c.s.a.
- Several surfaces available for marking.
- Test facility.
- Numerous certifications.

PB501894
Principle of screw technology

Terminal blocks





General characteristics

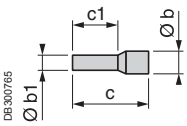
Terminal blocks	Technology		Spring	Insulation displacement	Screw
	Type		AB1 RRN•••	AB1 AA•••	AB1 VV••• / B•• / D•• / E•• / F•• / NEN / S• / T•
Component materials	Insulating case		Polyamide 6.6		
	Connector and screw		Zinc chromated steel		
	Commoning link		Copper or brass		
Electrical and thermal characteristics of insulating case (polyamide 6.6)					
Dielectric strength	Conforming to VDE 0303-T21 and IEC 60243-1	kV/mm	80/65		
Dielectric loss Tan coefficient at 1 MHz	Conforming to VDE 0303-T4 and IEC 60250		0.01		
Dielectric constant at 1 MHz			3.7		
Resistivity	Conforming to VDE 0303-T30 and IEC 60093	Ω.cm	10^{12}		
Surface resistance	Conforming to VDE 0303-T30 and IEC 60093	Ω	10^{10}		
Creep resistance	Conforming to VDE 0303-T30 and IEC 60093	CTI (kB)	500 (> 400)		
Ambient air temperature around the device	Conforming to VDE 0304-T21 and IEC 60216-1	°C	Operation: –40…+130		
Inflammability class	Conforming to UL 94	Class/mm thickness	V-0 / 0.8		

Terminal blocks
Spring technology

Nominal c.s.a (mm²)		2.5	4	6 to 16	35	2.5	4	6 to 16	35
Number of poles	**1 - 1 x 1**	AB1RRN235U2GR	AB1RRN435U2GR	AB1RRN635U2GR AB1RRN1035U2GR AB1RRN1635U2GR	AB1RRN3535U2GR	AB1RRNTP235U2	AB1RRNTP435U2	AB1RRNTP635U2 AB1RRNTP1035U2 AB1RRNTP1635U2	AB1RRNTP3535U2
	1 - 1 x 2	AB1RRN235U3GR	AB1RRN435U3GR	AB1RRN635U3GR AB1RRN1035U3GR AB1RRN1635U3GR	–	AB1RRNTP235U3	AB1RRNTP435U3	AB1RRNTP635U3 AB1RRNTP1035U3 AB1RRNTP1635U3	–
	1 - 2 x 2	AB1RRN235U4GR	AB1RRN435U4GR	–	–	AB1RRNTP235U4	AB1RRNTP435U4	–	–
	1 - 2 x 4	–	–	–	–	–	–	–	–
	1 - 3 x 3	–	–	–	–	–	–	–	–
	2 - 1 x 1	AB1RRNP235UNO	–	–	–	–	–	–	–
	2 - 1 x 2	–	–	–	–	–	–	–	–
	3 - 1 x 1	–	–	–	–	–	–	–	–
Colours	**grey (*GR)**	•	•	•	•	–	–	–	–
	blue (*BL)	•	•	•	•	–	–	–	–
	green/yellow	–	–	–	–	•	•	•	•
	black (*NO)	•	–	–	–	–	–	–	–
Mounting on	**35 mm ⊓**	•	•	•	•	•	•	•	•
	35 mm ⊐	•	•	•	•	•	•	•	•

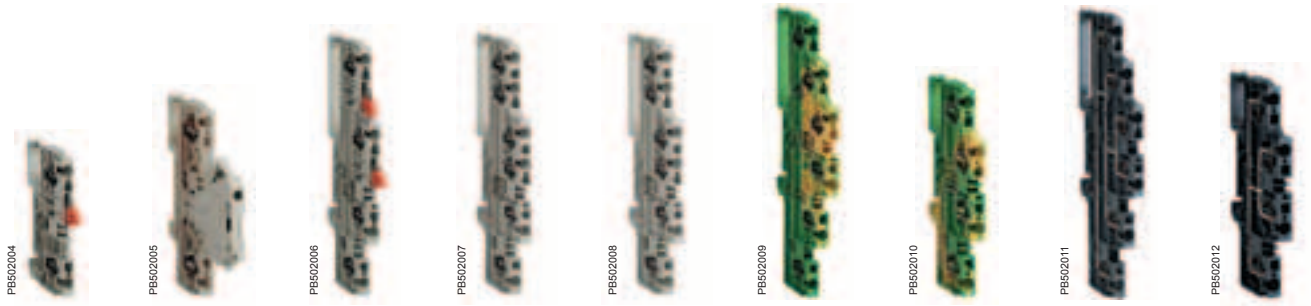
Single cable ends

mm²	Øb	Øb1	c
0.5	3	1.4	13
0.75	3.1	1.6	13
1	3.4	1.8	13.5
1.5	4	2.1	13.5
2.5	4.6	2.7	14.5



Type			Single cable ends Sold in lots of 10 x 100		
Packaging			**Individual or "strings" of bags**	**Dispenser pack**	**Strips of 50 in bag**
Conductor c.s.a. in mm²	0.5	White	**DZ5CE005D**	**AZ5CE005D**	**DZ5CEB005D**
	0.75	Grey	**DZ5CE007D**	**AZ5CE007D**	**DZ5CEB007D**
	1	Red	**DZ5CE010D**	**AZ5CE010D**	**DZ5CEB010D**
	1.5	Black	**DZ5CE015D**	**AZ5CE015D**	**DZ5CEB015D**
	2.5	Blue	**DZ5CE025D**	**AZ5CE025D**	**DZ5CEB025D**

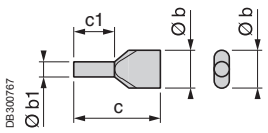
Terminal blocks
Spring technology

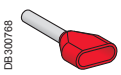


	2.5	4	2.5	2.5	4	2.5	4	2.5	4
	AB1RRNSC235U2	AB1RRNSF435UGR	–	–	–	–	–	–	–
	AB1RRNSC235U3	–	–	–	–	–	–	–	–
	AB1RRNSC235U4	–	–	–	–	AB1RRNETP235U4	AB1RRNETP435U4	AB1RRNETV235U4	AB1RRNETV435U4
	–	–	–	–	–	AB1RRNETP235U6	–	AB1RRNETV235U6	–
	–	–	–	–	–	AB1RRNETP235T6	–	AB1RRNETV235T6	–
	–	–	AB1RRNSCE235U4	AB1RRNET235U4	AB1RRNET435U4	–	–	–	–
	–	–	AB1RRNSCE235U5	AB1RRNET235U6	–	–	–	–	–
	–	–	–	AB1RRNET235T6	–	–	–	–	–
	•	•	•	•	•	–	–	–	–
	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	•	•	–	–
	–	–	–	–	–	–	–	•	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•

Double cable ends

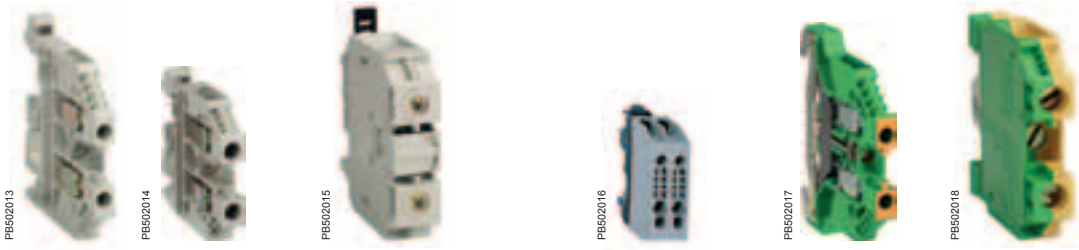
mm²	Øb	Øb1	c	c
0.75	2.8 x 5	1.8	15	8
1	3.4 x 5.4	2.05	15	8
1.5	3.6 x 3.6	2.3	15	8
2.5	4.2 x 7.8	2.9	18.5	10





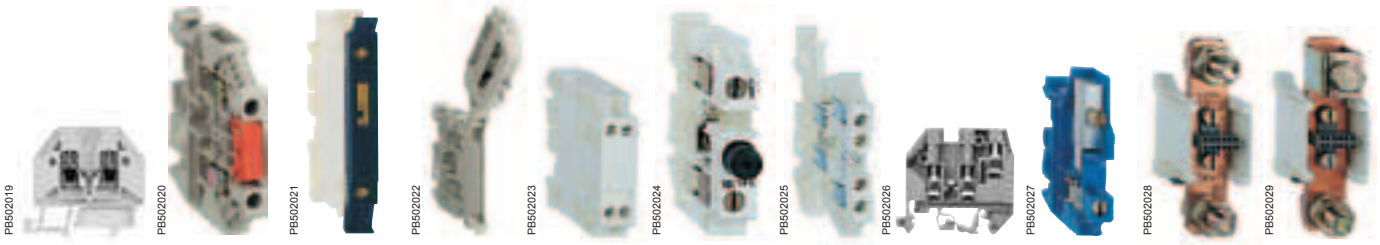
Type			Double cable ends Sold in lots of 5 x 100
Packaging			Dispenser pack
Conductor c.s.a. in mm²	2 x 0.75	Grey	AZ5DE007D
	2 x 1	Red	AZ5DE010D
	2 x 1.5	Black	AZ5DE015D
	2 x 2.5	Blue	AZ5DE025D

Terminal blocks
Screw technology



Nominal c.s.a (mm²)		2.5	4	6	10 & 16	35 to 150	4	6	16 & 35	2.5	4	6 to 35
Number of poles	1 - 1 x 1	AB1VV235U	AB1VV435U	AB1VV635U	AB1VVN1035U AB1VVN1635U	AB1VVN3535U AB1VVN7035U AB1VVN15035U	–	–	DB6ED01 DB6FD01	AB1TP235U	AB1TP435U AB1TP215	AB1TP635U AB1TP1035U AB1TP1635U
	2 - 1 x 1	–	–	–	–	–	DB6CD102	DB6DD102	–	–	–	–
	3 - 1 x 1	–	–	–	–	–	–	DB6DD103	–	–	–	–
	5 - 1 x 1	–	–	–	–	–	DB6CD105	–	–	–	–	–
	10 - 1 x 1	–	–	–	–	–	DB6CD110	–	–	–	–	–
	1 - 1 x 2	–	–	–	–	–	–	–	–	–	–	–
	1 - 2 x 2	–	–	–	–	–	–	–	–	–	AB1ETNTP435U AB1ET435UTP	–
	3 - 1 x 1	–	–	–	–	–	–	–	–	–	●	–
Colours	grey	●	●	●	●	●	●	●	●	–	–	–
	blue (*BL)	●	●	●	●	●	–	–	–	–	–	–
	grenn/yellow	–	–	–	–	–	–	–	–	●	●	●
	orange (*GE)	●	●	●	–	–	–	–	–	–	–	–
	red (*RO)	–	●	–	–	–	–	–	–	–	–	–
	green (*VE)	–	●	–	–	–	–	–	–	–	–	–
	white (*BLA)	–	●	–	–	–	–	–	–	–	–	–
	black (*NO)	–	●	–	–	–	–	–	–	–	–	–
Mounting on	35 mm ⊓	●	●	●	●	●	●	●	●	●	●	●
	35 mm ⊐	●	●	●	●	●	●	●	●	●	●	●
	35 mm ⊏	●	●	●	●	●	●	●	●	●	●	●
	tele-quick	–	–	–	–	–	●	●	●	–	–	–
	15 mm ⊓	–	–	–	–	–	–	–	–	–	●	–

Terminal blocks
Screw technology



	2.5 & 4	4	4	4	2.5	10	4	4	4 to 16	95 to 240	95 to 240
	AB1VV215 AB1VV415	AB1SC435U	AB1FUSE435U5X AB1FUSE435U6X	AB1SF435U	–	AB1FU10135U AB1FU10335U AB1FU10435U	–	–	AB1NEN435U AB1NEN1035U AB1NEN1635U	AB1BB9535 AB1BB18535 AB1BB24035	AB1BC9535 AB1BC15035 AB1BC24036
	–	–	–	–	AB1D11435U	–	AB1ET435U	AB1ETN235U	–	–	–
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	–	–	–	–	–	–	AB1ET435U2	AB1ETN435U	–	–	–
	–	–	–	–	–	–	AB1ET3235U	–	–	–	–
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Lighting and power socket accessories

DB404866

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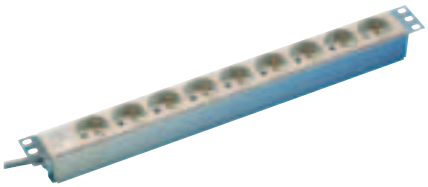
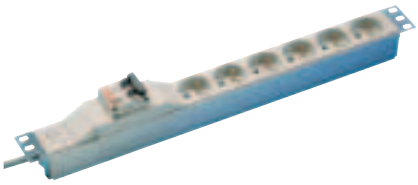
Lighting and power socket
Current distribution accessories

PB500980



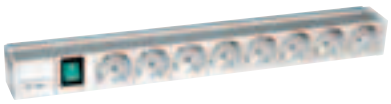
NSYAPU19F9

PB500981



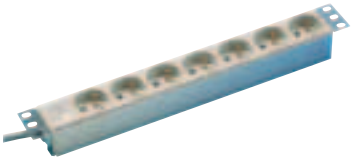
NSYAPU19F6CB

PB500982



NSYAPU19F8S

PB500983



NSYAPU19F7FA

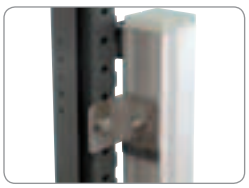
Electrical power distribution rails

- Sockets positioned at 35°, 2P + E, AC 250 V 16 A/3680 W with child protection.
- UTE version according to NFC61314, IEC60884 and NBNC61112-1 standards.
- VDE version according to DIN49 440, VDE0620-1, IEC60884 and UNE20315 standards.
- Anodised-aluminium rail with a height of 1 U.
- Direct fixing to the 19" rack or framework uprights by stainless-steel brackets, supplied.
- Material: fibreglass polyamide plastic with fire resistance to 850 °C.
- 3-m power cord (3 x 1.5 mm^2) type H05 VVF, equipped with an overmoulded 2P + E, 250 V, 10/16 A plug according to VDE0620-1, IEC60884, UNE20315 and NBNC61-112-1 standards.

Number of sockets	Width (mm)	Depth (mm)	Type	UTE	VDE
3	10"	44	A	**NSYAPU10F3**	**NSYAPU10S3**
3	10"	44	B	**NSYAPU10F3S**	**NSYAPU10S3S**
9	19"	44	A	**NSYAPU19F9**	**NSYAPU19S9**
8	19"	44	B	**NSYAPU19F8S**	**NSYAPU19S8S**
6	19"	76	C	**NSYAPU19F6CB**	**NSYAPU19S6CB**
7	19"	44	D	**NSYAPU19F7FA**	**NSYAPU19S7FA**
6	19"	44	E	**NSYAPU19F6FT**	**NSYAPU19S6FT**
6	19"	76	F	**NSYAPU19F6F**	**NSYAPU19S6F**
7	704	44	B	**NSYAPUF7S**	**NSYAPUS7S**
10	968	44	B	**NSYAPUF10S**	**NSYAPUS10S**
12	1232	76	C	**NSYAPUF12CB**	**NSYAPUS12CB**

- A: Rail of sockets without protection.
- B: Rail of sockets with recessed green LED switch.
- C: Rail of sockets with bi-polar magnetothermal circuit-breaker C16 type C60N 16 A curve C.
- D: Suppression filter for interferences of up to 30 MHz, nominal frequency 400 Hz, attenuation 20 dB per decade.
- E: Interference suppression filter and surge arrester, 6.5 kA short-circuit protection, protection level Up 1.5 kV, voltage test Uoc 5 kV Uc 255 V, 50 Hz. Operating LED, interferences of 30 MHz, nominal frequency 400 Hz, attenuation 20 dB per decade.
- F: Differential protection 30 mA, 2 poles 25 A NC type.

PB500984



NSYAPUB

PB500985

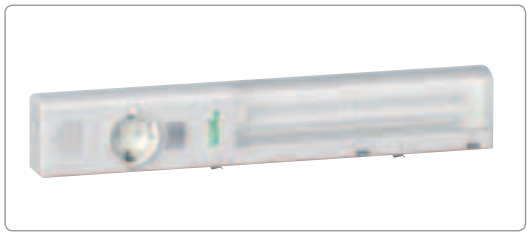
NSYAPUBV

Fixing brackets

- For vertical assembly of distribution rails.
- Batch of 2 brackets, adaptable to all rails, delivered with fixings.
- Material: treated steel, thickness 10/10 mm.
- Fixing to the ends of the rail: reference **NSYAPUBV**.
- Fixing with an orientation of 90°: reference **NSYAPUB**.

Fixing	Reference
Orientation of 90°	**NSYAPUB**
Ends of the rail	**NSYAPUBV**

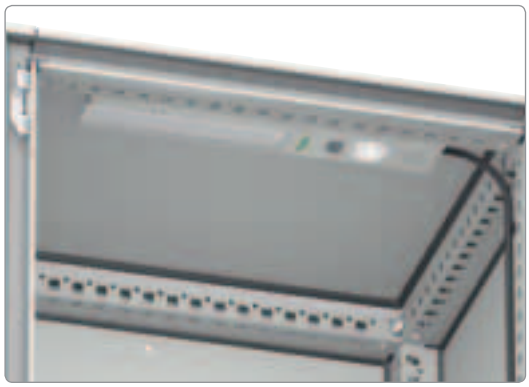
Lighting and power socket



PB501706

PB501707

Direct fixing to the vertical rail.



PB501708

Direct fixing to the horizontal rail.

PB501709

Fixing to 19" and 1 U rack.

Multi-fixing lamp

This lamp is designed to optimise the space and accessibility of the enclosure, as well as having four fixing options as standard in each model.

Four fixing options as standard

Four fixing modes allow it to be installed in practically any enclosure on the market. Quick fixing saves installation time and makes it easier to select the best location within the enclosure.

Fixing modes:

- Fixing by sliding brackets, with a pitch of 25 mm, directly on the structure profiles of the Spacial SF, SFX, SM, SMX, SD and SDX enclosures and on all uprights or cross-rails with the same cut-outs.
- Direct fixing on DIN rails by means of two easy-mounting clips.
- Magnetic fixing which takes less than 3 seconds to assemble, providing the most versatile fixing in any metal enclosure*.
- Direct fixing by screws, allowing it to be installed practically anywhere.

* Does not apply to stainless-steel enclosures.

Socket independent from the door switch

The lamp has five connection terminals which support the use of a door switch to control the light, without the socket of the lamp being disconnected when the door is closed. This means that the socket can be used with its nominal current indefinitely without overloading the door switch.

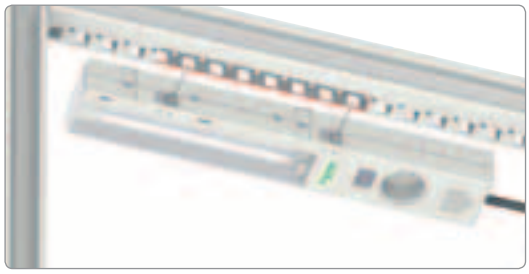
Protected switch

The switch is semi-recessed to avoid being damaged during enclosure assembly or maintenance. The use of a door switch is optional.
No door switch is required for the version with presence detector, which results in savings on the cost of the switch, cable and installation.

ENVIRONMENTALLY FRIENDLY

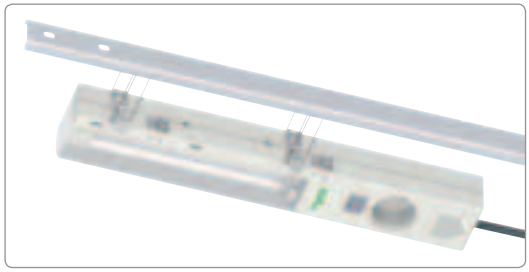
TIME SAVING

Lighting and power socket



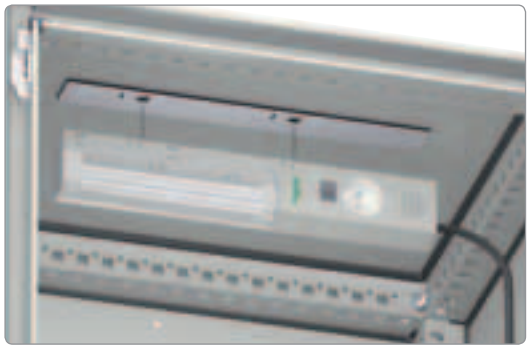
PB501710

Fixing by sliding brackets.



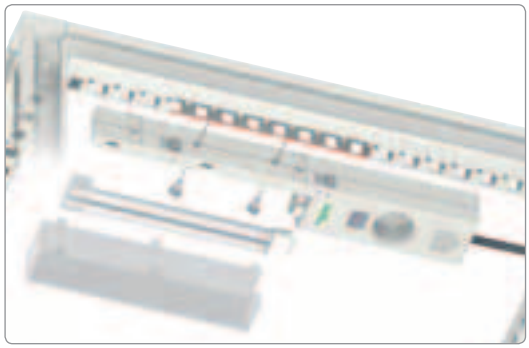
PB501711

Fixing to DIN rail.



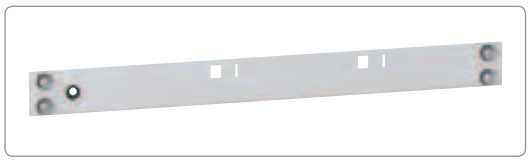
PB501712

Magnetic fixing.



PB501713

Fixing by screws.



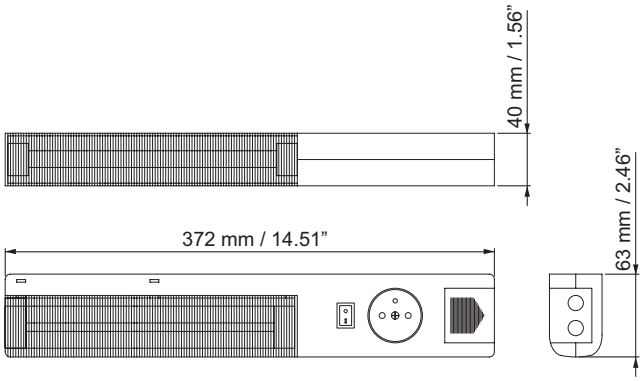
PB501714

Technical data

- Fluorescent base: 2 G11.
- Built-in switch.
- Power consumption: 11 W.
- Frequency: 50/60 Hz.
- Luminosity: 900 Lm.
- Colour: RAL 7035.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Connection: max. 2.5-mm^2 terminals, with cable tie.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class I - lamps with socket.
  class II - lamps without socket.
- Compliant with RoHS and Reach.
- Operating/storage temperature: –16 °C to +65 °C (–3 °F to +149 °F).
  –40 °C to +70 °C (–40 °F to +158 °F).

Standards:
- IEC 61000-6-4.
- UL508A: for installation in enclosures that comply with standard UL508A.
- UL94: for plastic components.

Supply: 1 lamp and fixing elements.



DB300721

Description	Voltage	Socket		Reference
Multi-fixing with socket	230 V	Schuko		**NSYLAMCS**
Multi-fixing with socket	230 V	UTE		**NSYLAMCF**
Multi-fixing with socket	230 V	British		**NSYLAMCB**
Multi-fixing with socket	120 V	UL-CSA		**NSYLAMCU**
Multi-fixing without socket	230 V	-	-	**NSYLAMC**
Multi-fixing with presence detection	230 V	-	-	**NSYLAMCD**

Rack for VDI

1 U, 19" rack. For lamp installation in VDI enclosures.
Supplied with fixing elements.

Description	Reference
1 U 19" rack for lamp	**NSYLAM1U**

Lighting

PB501715

PB501716

PB501717

Figure 1.

PB501718

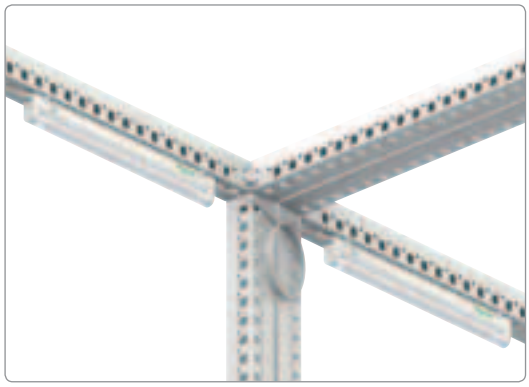


Figure 2.

Cost-effective lamp

These lamps offer excellent value for money and can adapt to any installation.

Small size

Designed for installation in the smallest wall-mounting enclosures or the largest assemblies of suitable enclosures.
Its compact size allows it to be fixed to the frame of the enclosure door without impeding access to the equipment or enclosure maintenance (Fig. 1).

Interconnection

The lamps can be interconnected easily using a 1-m cable supplied as standard, and they can be installed in different locations of the same enclosure or of different enclosures, up to a maximum of 10 lamps (Fig. 2).
This reduces installation time and makes it possible to control several lamps with a single door switch.

Two fixing options as standard

The two fixing modes allow it to be installed in practically any enclosure on the market.
Quick fixing saves installation time and makes it easier to select the best location within the enclosure.

Fixing modes:

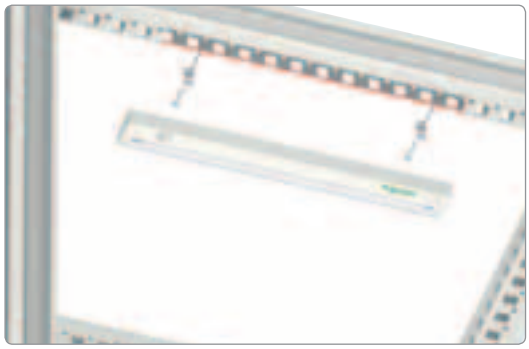
- Fixing by adapter brackets: designed to enable fixing on any structural rail of the Spacial SF, SFX, SM, SMX, SD and SDX enclosures and on all uprights or cross-rails with the same cut-outs. Also suitable for fixing in polyester enclosures and other surfaces in which the brackets can be screwed.
- Magnetic fixing: provides the most versatile fixing in any metal enclosure*.

* Does not apply to stainless-steel enclosures.

ENVIRONMENTALLY FRIENDLY

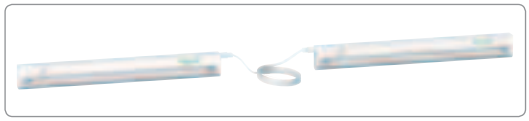
TIME SAVING

Lighting

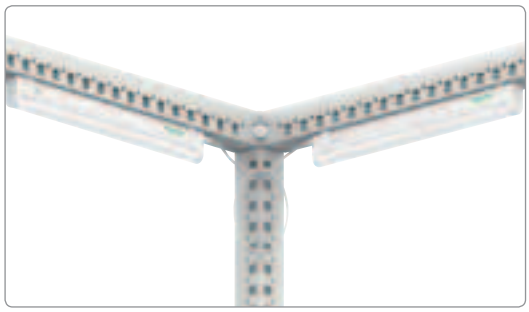


PB501719

PB501720



PB501721

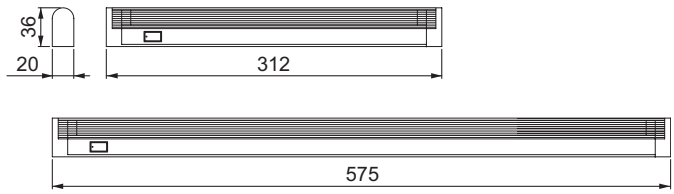


PB501722

Technical data

- Fluorescent: T5.
- Built-in switch.
- Colour: RAL 9002.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Power cable: 3 m with connector and no plug at the end.
- Interconnection cable: 1 m with connectors.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class I.
- Compliant with RoHS and Reach.
- Operating/storage temperature: –16 °C to +65 °C (–3 °F to +149 °F).
  –40 °C to +70 °C (–40 °F to +158 °F).

Standards:
- IEC 61000-6-4.
- UL94.



DB300722

Interconnection

The lamps can be interconnected and use a single power source:
- 8 W lamps: max. 10 lamps interconnected.
- 14 W lamps: max. 5 lamps interconnected.

Supply: 1 lamp and fixing elements.

Power	Voltage	Frequency	Lumens*	Dimensions		Reference
				(mm)	(in)	
8 W	220 V	50-60 Hz	400 lm	213 x 20 x 36	12.17 x 0.78 x 1.40	**NSYLAM8T5**
14 W	220 V	50-60 Hz	650 lm	575 x 20 x 36	22.43 x 0.78 x 1.40	**NSYLAM14T5**

* Approximate values.

Lighting

PB501723

Portable lamp

Double function:
- As an internal enclosure lamp.
- As a maintenance lamp.

Two fixing options as standard

Fixing by screws or adhesive. Provides the most versatile fixing in any enclosure.

Winding cable

The 3-m cable can be wound onto the base of the lamp, avoiding accidents and inconvenience while not in use.

Switch

Easy-access switch in the handle of the lamp, recessed to avoid accidentally switching the lamp off.

PB501724

Fluorescent

Compact 4-pin fluorescent lamp. Easy to find replacements on the market.

Technical data

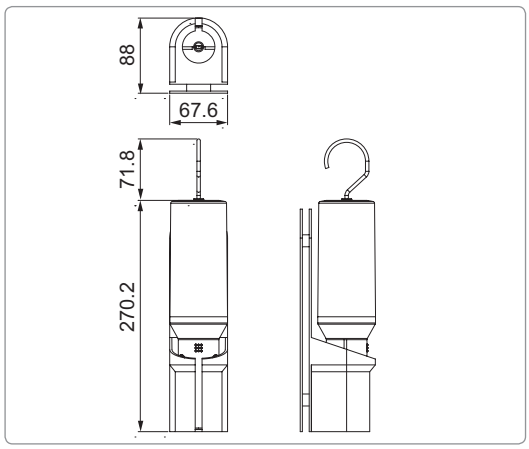
- Compact fluorescent base: G24d.
- Built-in recessed switch.
- Colour: RAL 7035.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Power cable: 3 m with connector and male plug at the end.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class II.
- Compliant with RoHS and Reach.
- Operating/storage temperature: –20 °C to +50 °C (–4 °F to +122 °F).
  –45 °C to +70 °C (–40 °F to +158 °F).

Standards:
- IEC 61000-6-4.
- UL94.

PB501725

Supply: 1 lamp and fixing elements.

Description	Voltage	Reference
Portable lamp with ON/OFF switch	230 V	**NSYLAMPORT**



DB300722

Door accessories

DB404860

Door accessories
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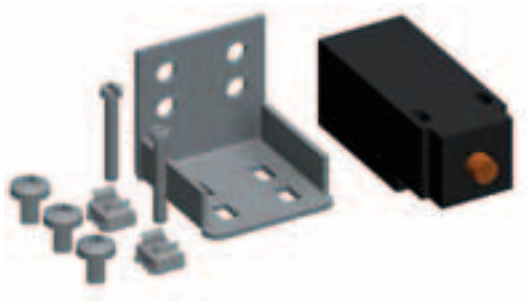
Door retainer 471

Lighting accessories



Door switch for floor-standing enclosures

- The switch is fixed to the structure of the enclosure.
- Drilled M20 cable entry for cable gland.
- NC + NO contact, 10 A/500 V.

Supply: 1 door switch and fixing elements.

Reference	For ranges
NSYDCM20	SF & SFX
NSYMDCM20	SM

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓							

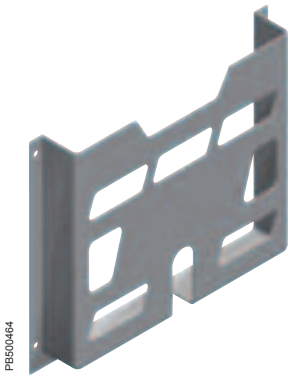
Door switch for wall-mounting enclosures

- Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure.
- Can be used to control lighting, air-conditioning units, etc.
- It is not compatible with installing the 19" swing rack and the internal door.
- NC + NO contact, 10 A/500 V.

Supply: 1 door switch and fixing elements.

Reference
NSYINLCRN

Door accessories


PB500464

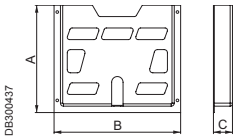
Plastic document pocket

- Fixing by adhesive tape.
- Formats: A5 and A4.
- Material: polystyrene (PS), RAL-7035 grey.

Supply: 1 plastic document pocket.

Document format (mm)	A	B	C	Reference
A5	174	188	22	**NSYDPA5**
A4	230	248	22	**NSYDPA4**
A4	234	278	40	**NSYDPA44** (1)
A3	258	476	35	**NSYDPA3**

(1) Not compatible with 19" chassis or modular distribution.



DB300437

PB500485

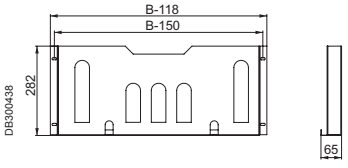
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓			✓	✓					

Metal document pocket

- Direct fixing on the door reinforcement frame.
- Height adjustable in steps of 25 mm.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL-7035 grey.

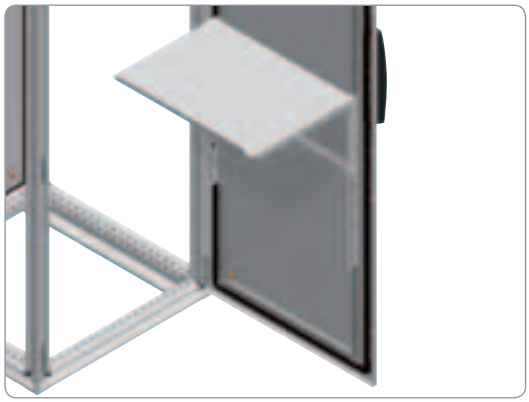
Supply: 1 metal document pocket and fixing elements.

Enclosure dimensions (mm)	Reference
Width (B)	
600	**NSYSDP6M**
800	**NSYSDP8M**

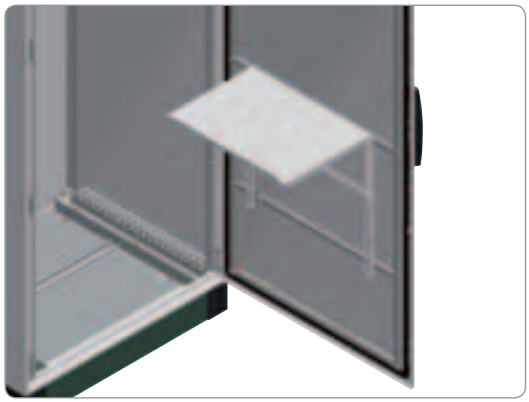


DB300438

Door accessories



PB500611



PB500612

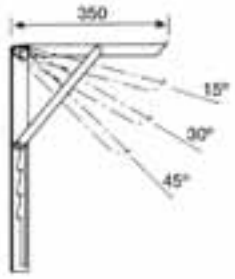
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓			✓	✓					

Folding support tray

- Adjustable horizontal support for laptop computers, documents or any other elements.
- Mounting on the door reinforcement frame.
- It can also be mounted on door cross-rails, see page **440**.
- Height adjustable in steps of 25 mm.
- In 1000-mm-wide enclosures, any size can be mounted using door cross-rail ref. **NSYSDCR10**.
- 4 positions: 45°, 60°, 75° and 90°.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: painted with polyester-epoxy resin, RAL-7035 grey.
- Maximum load: 30 kg.

Supply: 1 folding support tray and fixing elements.

Spacial dimensions (mm) Width	Reference
500	**NSYSDT5**
600	**NSYSDT6**
800	**NSYSDT8**



DB300439

PB500491

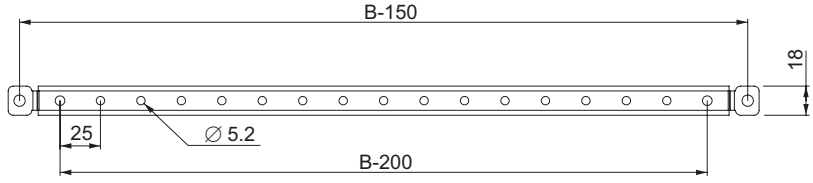
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓			✓	✓					

Door cross rails

- Direct mounting cross rails on the profiles of the reinforcement frame of the door.
- Adjustable height with a pitch of 25 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

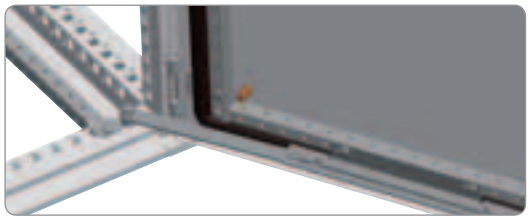
Supply: two cross rails and bag of fixings.

Nominal dimensions (mm) Width (B)	Reference
400	**NSYSDCR4**
500	**NSYSDCR5**
600	**NSYSDCR6**
800	**NSYSDCR8**
1000	**NSYSDCR10**



DB300440EN

Door accessories



PB500767

PB500508

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Floor-standing door retainer

- Door blocker at the opening limit.
- It is fixed directly to the front frame of the enclosure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.

Supply: door stop and fixing elements.

Door stop model	Reference	For enclosures	Limit
Mechanical	**NSYSFMDR**	**Spacial SF**	90° and 120°
	NSYSMDR	**Spacial SM**	90°
Pneumatic	**NSYSFNDR**	**Spacial SF**	120°
	NSYSMNDR	**Spacial SM**	90° and 120°

Door accessories

PB500223

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓											

Wall-mounting door retainer (steel)

To block the door in the open position.
- It is installed on enclosures with heights from 400 mm and widths from 300 mm.
- Earthing connection of the enclosure by means of the reinforcement rail.
- Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page **478**.
- Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door.

Description	Reference
Steel door retainer for Spacial wall-mounting steel enclosure	**NSYAEDRSCST**

PB500993

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
		✓											

Wall-mounting door retainer (polyamide)

To block the door in the open position.
- It is installed on the perforated rails of the enclosure doors at the required height.
- Material: polyamide 6 (PA6).
- It is only installed on enclosures with a height of less than 400 mm (no perforated rails).
- It cannot be installed in the Spacial CRN enclosures.

Description	Reference
Door-holding system for Spacial wall-mounting steel enclosure	**NSYAEDRS3DPA6**

See also the accessories

Support for cable ducting with diameter 22 page **447**

Door cable-guide cross-rail page **440**

Door accessories

PB500994

Fig. 1

PB500995

Fig. 2

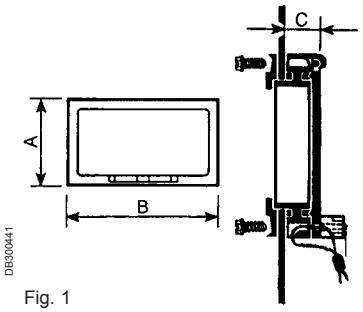
Window for modular equipment, IP 65

They provide viewing and access to the inside of the enclosure while keeping the IP 65 protection degree.
Made from transparent polycarbonate.

Supply: 1 window.

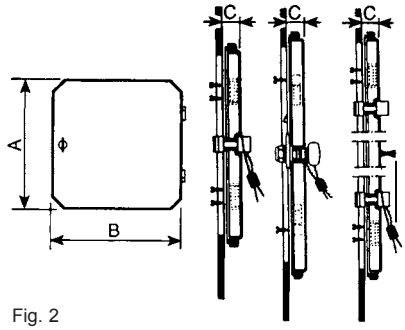
N.° of modules	Fig. n.°	A	B	C		Reference	
				Low cover	High cover	Low cover	High cover
2	1	78	60	15	25	**NSYVA272M**	**NSYVA272MA**
4	1	78	95	15	25	**NSYVA274M**	**NSYVA274MA**
6	1	78	130	15	25	**NSYVA276M**	**NSYVA276MA**
8	1	78	165	15	25	**NSYVA278M**	**NSYVA278MA**
10	1	78	200	15	25	**NSYVA2710M**	**NSYVA2710MA**
12	1	78	235	15	25	**NSYVA2712M**	**NSYVA2712MA**
16	2	195	165	13	-	**NSYVA2716M**	-
24*	2	196	235	13	-	**NSYVA2724M**	-
36*	2	248	235	13	-	**NSYVA2736M**	-
51**	2	248	325	13	-	**NSYVA2751M**	-

* In rows of 12 modules mounted vertically.
** In rows of 17 modules mounted horizontally.



DB300441

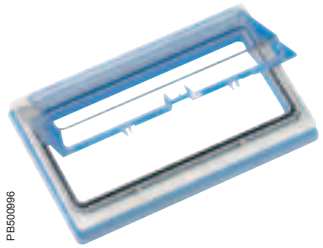
Fig. 1



DB300442

Fig. 2

Door accessories

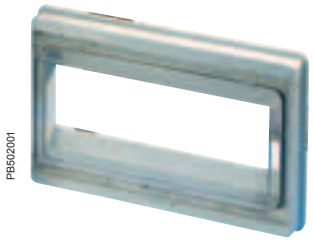


Plastic window IP 55

- Plastic window with hinged cover for installation on front panel, IP 55.
- Polycarbonate cover and PVC body.
- External dimensions: 213 x 133 mm.
- Internal dimensions of the window: 180 x 78 mm.
- Delivered with a drilling template.

Composition: 1 plastic window.

Reference
NSYMW10M

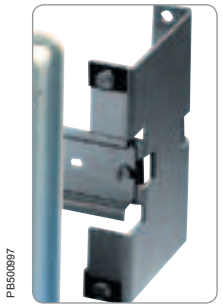


Plastic window for modular equipment, IP 55

- Frame with transparent hinged cover for mounting modular switchgear on the front panel.
- Opening: 46 x 180 mm (10 modules).

Composition: 1 modular front panel.

Reference
NSYMW10MK

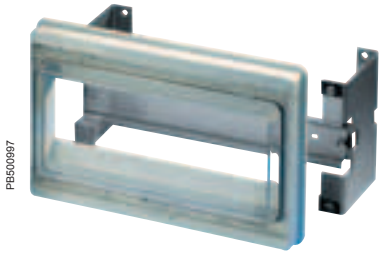


Kit for fixing the switchgear

- The fixing kit includes a DIN rail and its two supports.
- The unit is delivered assembled.

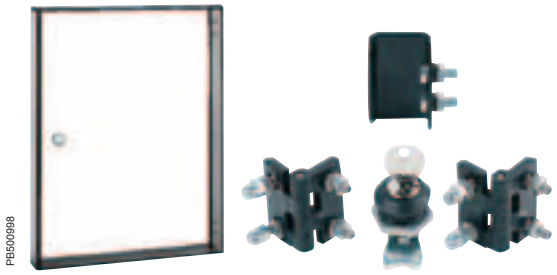
Composition: 1 DIN rail and two supports.

Reference
NSYMW10MR



Mounting example:
NSYMW10MK + **NSYMW10MR**

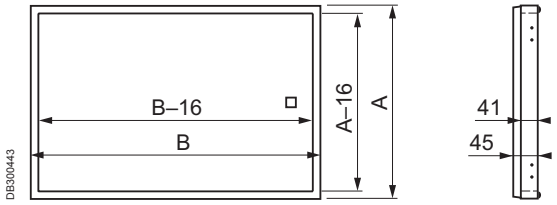
Door accessories



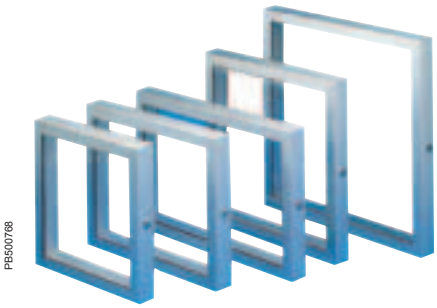
Acrylic window IP 55

- Transparent acrylic window, hinged, with gasket for installation on front panel. IP 55.
- Closure by lock with key nº 1242 E (2 locks for the height of 800 mm).
- Delivered with 2 hinges (3 for the height of 800 mm) and the fixings required for installation.
- Does not filter out UV.

Composition: 1 acrylic window, hinges, fixings and drilling template.



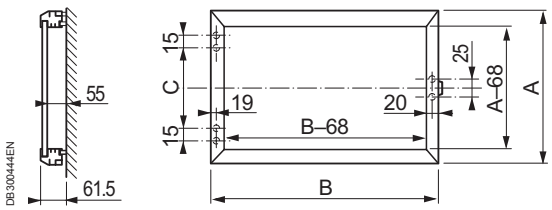
Acrylic window (mm)			Reference
A	B	Depth	
200	400	45	**NSYAW24**
400	400	45	**NSYAW44**
500	400	45	**NSYAW54**
600	400	45	**NSYAW64**
800	400	45	**NSYAW84**
200	500	45	**NSYAW25**
400	500	45	**NSYAW45**
500	500	45	**NSYAW55**
600	500	45	**NSYAW65**
800	500	45	**NSYAW85**
200	600	45	**NSYAW26**
400	600	45	**NSYAW46**
500	600	45	**NSYAW56**
600	600	45	**NSYAW66**
800	600	45	**NSYAW86**



Control window with aluminium protection frame

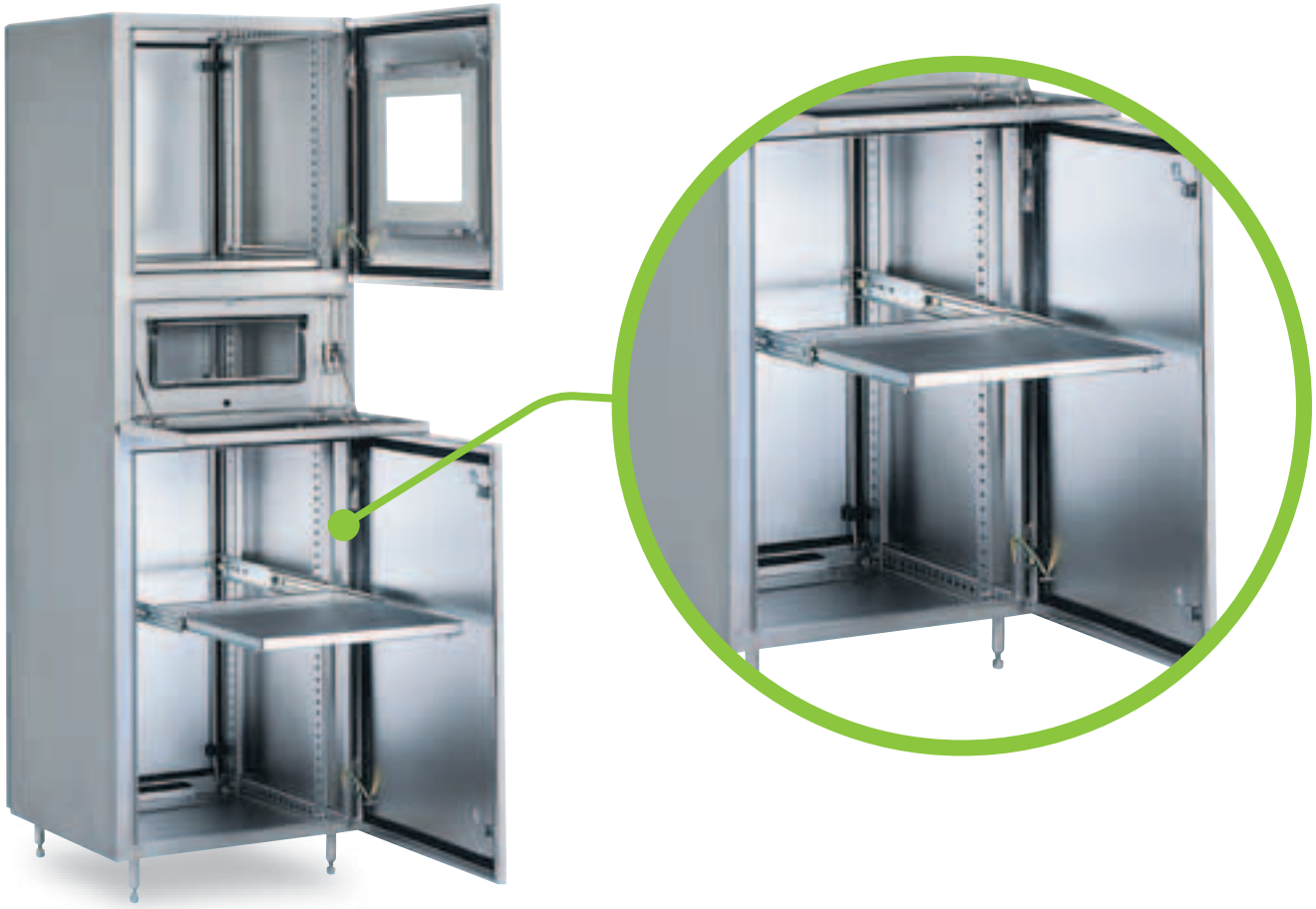
- To prevent accidental handling of the control units by any unauthorised person.
- Allows all the displayed information to be read without opening the door.
- Construction: aluminium frame and Altuglas viewing window.
- Equipped with hinges for opening.
- Closure by a nº 1242 E lock, type 911 B Ronis.
- Indoor installation.

Composition: 1 frame with window, hinges, fixings and drilling template.



Door window (mm)			Reference
A	B	C	
400	400	220	**NSYMA44**
400	500	220	**NSYMA45**
400	600	220	**NSYMA46**
400	800	220	**NSYMA48**
500	500	320	**NSYMA55**
600	500	420	**NSYMA65**
500	600	320	**NSYMA56**
500	800	320	**NSYMA58**
600	600	420	**NSYMA66**

Other accessories



PB501223

Other accessories
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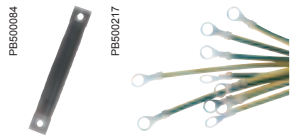
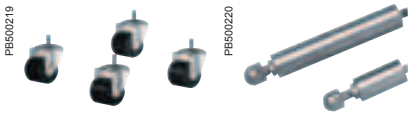


Earthing accessories 478



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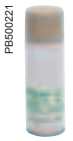


Paint accessories 483

Earthing accessories

PB500084

Earth braids

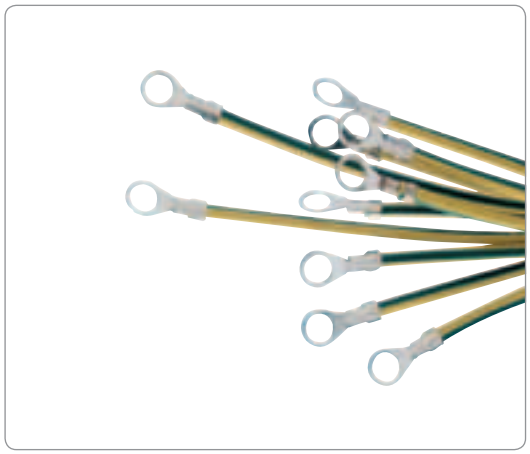
- Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: tinned copper.

Supply: 10 earth braids (nuts and washers not included).

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Length (mm)	Width (mm)	Section (mm^2)	Terminal Ø (mm)	Reference
150	12	6	6.5	**NSYEB156D6**
150	17	10	6.5	**NSYEB1510D6**
155	17	16	8.5	**NSYEB1516D8**
200	27	25	8.5	**NSYEB2025D8**
200	33	50	8.5	**NSYEB2050D8**

PB500217



Earth cables

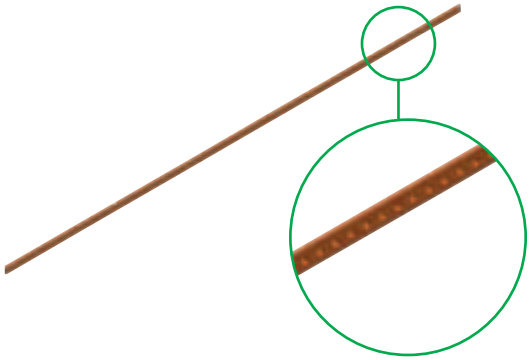
- Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
- Material: brass and copper alloy terminal, green and yellow PVC insulating sheath.

Supply: 10 earth cables (nuts and washers not included).

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Length (mm)	Section (mm^2)	Terminal Ø (mm)	Reference
130	6	6.4	**NSYEL136D6**
160	6	6.4	**NSYEL166D6**
160	6	8.3	**NSYEL166D8**
170	10	8.3	**NSYEL1710D6**
220	6	6.4	**NSYEL226D6**
220	25	8.3	**NSYEL2225D8**
250	10	6.4	**NSYEL2510D6**
350	25	8.3	**NSYEL3525D8**

Earthing accessories


PB500948

Earthing strip

- Perforated brass bar, 15 x 3 mm.
- 1 m long.
- 87 connection points, M5 drill holes.

Composition: 1 earthing strip and fixing elements.

Reference
NSYECB1M153

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

PB500899

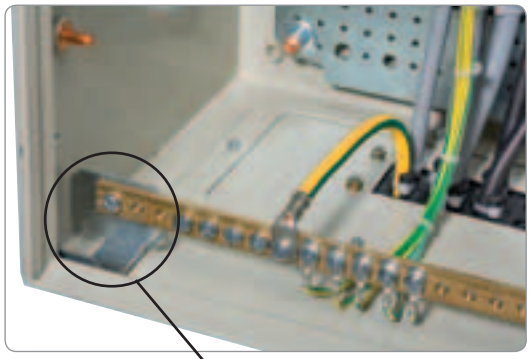
Central earthing point

- Connects earthing braids and cables to the structure of the enclosure.
- Fixing to the structure by means of self-tapping screws.
- The earth connection is made by means of the M8 x 18 mm bolt.

Supply: 1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt.

Reference
NSYCEP

Earthing accessories



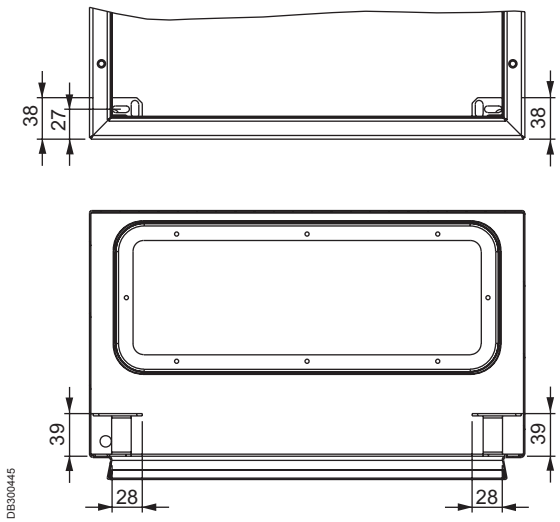
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓							

Fixing lugs for the earthing strip

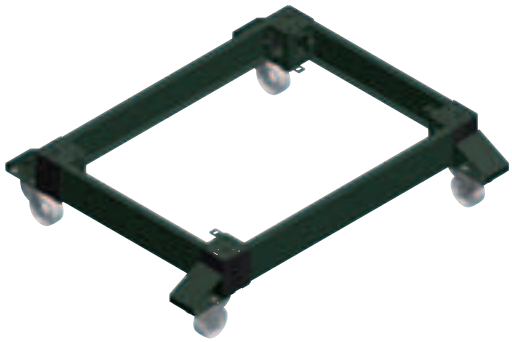
- They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
- Fixing on holes made in the gutter of the enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Earthing strip, page **479**.

Composition: 2 lugs and fixings.

Reference
NSYEDCOS



Floor accessories



PB500578

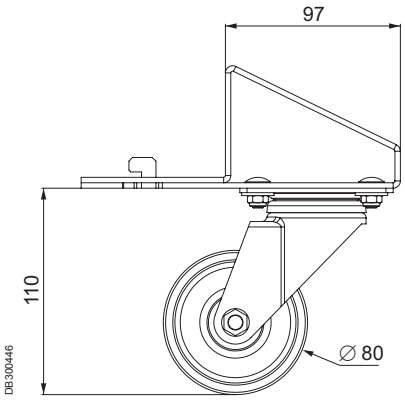
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓								

Transport casters

- Set of 4 casters, 2 with a blocking system.
- Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets.
- They can be installed in front or side position.
- Clipping and fixing to the corner by screws.
- Maximum load: 100 kg per castor.
- For use on flat surfaces.
- Height: 110 mm.

Supply: 4 transport casters (2 with a blocking system) and fixing elements.

Reference
NSYSTW



PB500219

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Enclosure casters

- Set of 4 casters.
- Double casters.
- Maximum load: 160 kg per caster.
- Height: 92 mm.
- Diameter: 64 mm.

Supply: 4 casters and fixing elements.

Reference
NSYSW

Floor accessories

PB501001

Fixed feet.

PB501002

Adjustable feet.

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

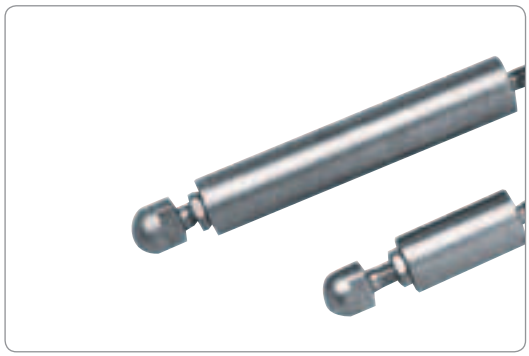
Levelling feet (fixed and adjustable)

- Set of 4 floor feet.
- 2 models:

– Fixed: height 42 mm.
Material: steel.
– Adjustable: height 22 mm.

- Maximum load: 100 kg per foot.

Levelling feet	
Model	**Reference**
Fixed feet	**NSYSPSJ**
Adjustable feet	**NSYSPRJ**


PB500220

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Hygienic stainless-steel feet

- Set of 4 hygienic feet, made from 316L stainless steel, specific for harsh environments.
- Models:

– Height: 100 mm.
– Height: 200 mm.

- Height adjustment: 20 mm.
- Maximum load: 100 kg per foot.

Supply: 4 feet.

316L stainless-steel hygienic feet	
Model with height (mm)	**Reference**
100	**NSYPHX100**
200	**NSYPHX200**

Paint accessories

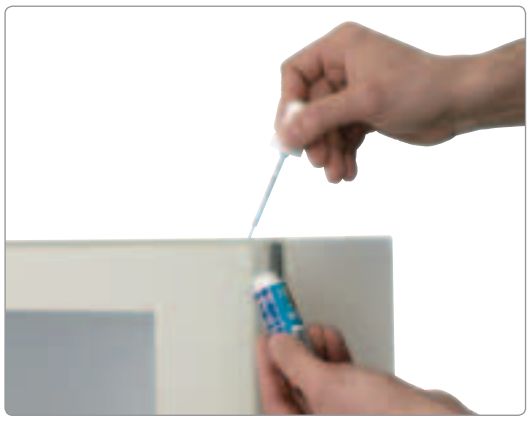
PB500221

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓	✓								

Aerosol paint can

- Air-drying paint.
- Content: 150 g.
- Colours: RAL 7035 and RAL 7032.

RAL	Reference
7032	**NSYBPA7032**
7035	**NSYBPA7035**


PB501003

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓	✓								

Paint touch-up

- Paint for touching up with a brush.
- Air-drying.
- Colours: RAL 7035 and RAL 7032.

RAL	Reference
7032	**NSYTUP7032**
7035	**NSYTUP7035**

Applicative offer

Applicative offer
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Human-Machine Interface

PB501228

Human-Machine Interface
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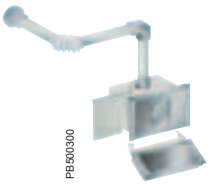
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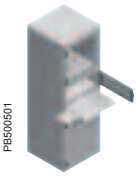
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Human-Machine Interface Solutions

> Indoor non-clean industrial environment

Steel

Control enclosure with suspension system

Control Desks

PC racks

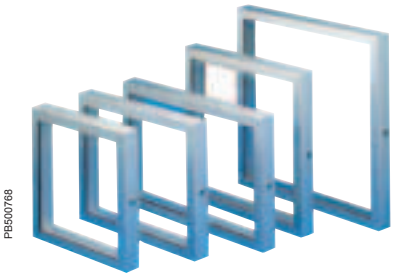
> Demanding industrial environment

Stainless-steel

Control Desks

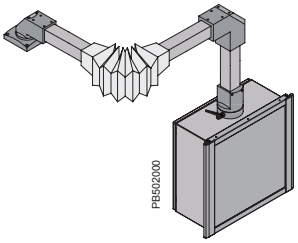
PC racks

See also our control and protection windows Pages 473 to 475



Human-Machine Interface Solutions

Our Spacial HMI ranges


PB502000

Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines **robustness** with **aesthetics** and **ergonomics**. Consist of:
- **Control enclosure.**
- A **keyboard-box**.
- A **suspension system** of arms and joints, for a fixed or rotating solutions.
- And **support accessories**.

See page **490**

PB500068

Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.
Spacial SD offers two clearly differentiated solutions:
- The **SD Compact control desk**.
- The **SD Control desk with console**.

The range has protection ratings of IP 55 and IK 10, which guarantee the safety and the protection of the installed devices.

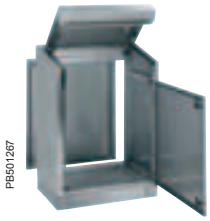
See page **508**

PB500208

Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.
Access to the various functions and working heights, guaranteeing optimum comfort.
The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

See page **528**


PB501267

Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector.
Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

See page **534**

PB501223

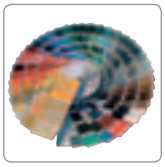
Spacial SMX monobloc PC rack

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.
Access to the various functions and working heights, guaranteeing optimum comfort.

See page **542**

Customised service: All standard dimensions from our catalogue on request and more...

Specific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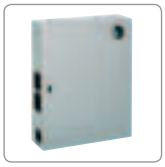
Paints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Holes & Cutouts

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Mounting

PB501691
Construction changes

PB501692
Accessories

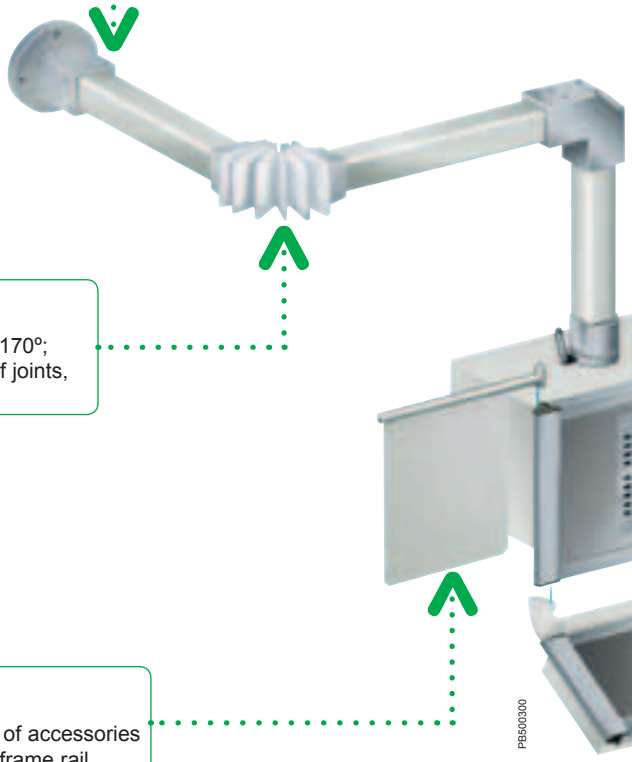
The Control and Human-Machine Dialogue enclosure, ideal for all your interfaces

Robustness

Fixing on metal support.
Metal tube.
Aluminium fixings on enclosure.

Choice

8 dimensions.



Flexibility

Rotation through 170°; complete range of joints, fixed or rotating.

Ergonomics

The rail of the frame guarantees good rigidity for the enclosure.

Easy

Direct installation of accessories on the enclosure frame rail.

Practical

Keyboard box fixed directly on the enclosure.

The Control and Human-Machine Dialogue enclosure, ideal for all your interfaces

The Spacial S3CM offer for human-machine dialogue consists of:
– Control enclosures.
– A box-keyboard.
– A system of arms and joints, fixed or rotating.
– Accessories.
The global dialogue system combines robustness with aesthetics and ergonomics.

Choice

8 enclosure sizes, with steel body,
from 300 x 300 x 200 mm to 800 x 600 x 300 mm.

Robustness

2 tube sizes in extruded steel, 50 and 80 mm square, thickness 4 mm.
IK 10.
Top wall reinforced by a plate with a thickness of 3 mm.

Sealing

IP 54, polyurethane gasket.

Aesthetics

Extruded aluminium rail frame.
RAL 7040 paint: frame.
RAL 7035 paint: enclosure.

Customisation to your image or the aesthetics of your machine: consult us.

Ergonomics

Frame designed for handling the enclosure and facilitating the usage by the operator.

Easy

Easy access to the equipment by a rear door, opening to 120°.
- Direct installation of accessories on the enclosure frame rail:
  – Vertical document support.
  – Keyboard support.
  – Laptop computer support.
- A box-keyboard is installed directly on the enclosure.

PB500418

PB500416

PB500433

PB500446

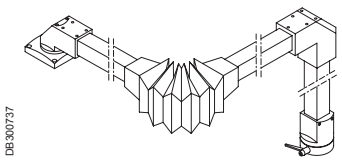
PB500432

PB500439

Specific

Customised enclosure production, contact us.

Choice of suspension system according to the overhang load and configuration

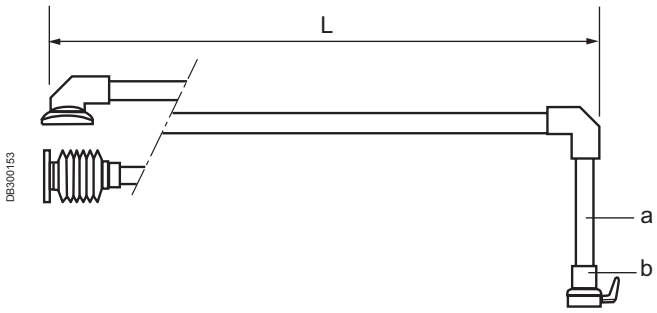


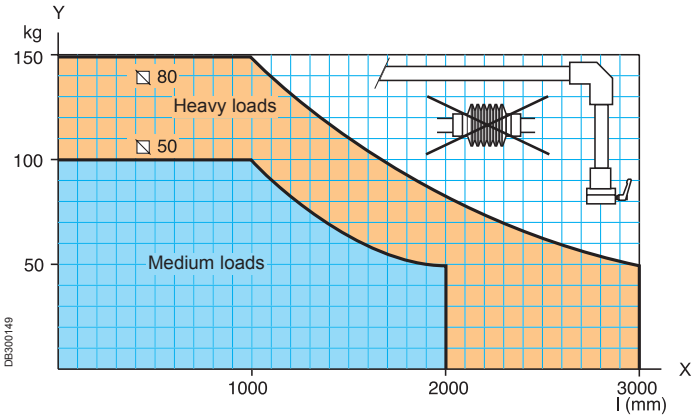
Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Every model is suitable for tubes with a square section of 50 mm for medium loads, or of 80 mm for heavy loads (see selection table on page **494**).

Steps to choose the suspension system (medium or heavy loads)

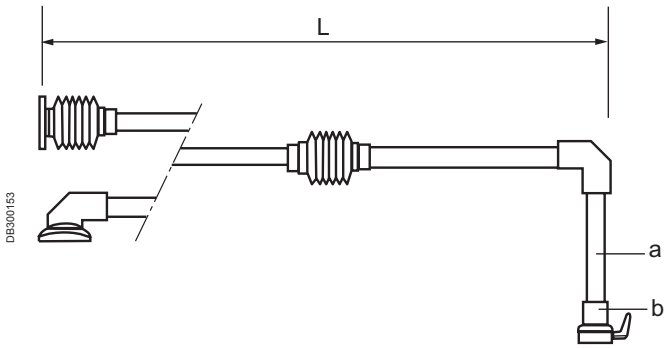
1 Define the total load of the system*: a + b + enclosure + installed equipment (Y axis).
2 Define the length of arm L (X axe).
3 Define the configuration:

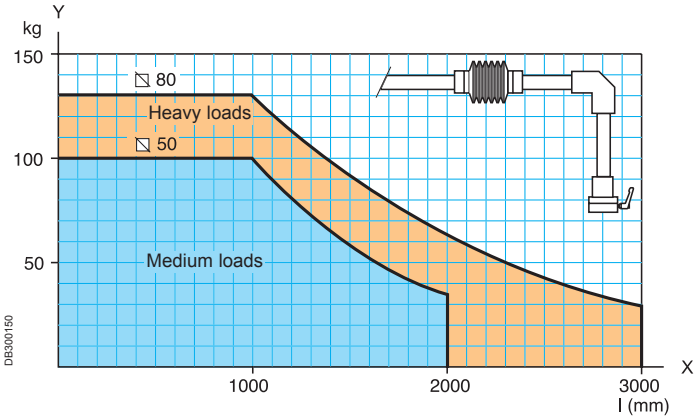
– Suspension system without intermediate joint.





– Suspension system witht intermediate joint.





* The load (a + b + enclosure + installed equipment) must be less than the maximum load.

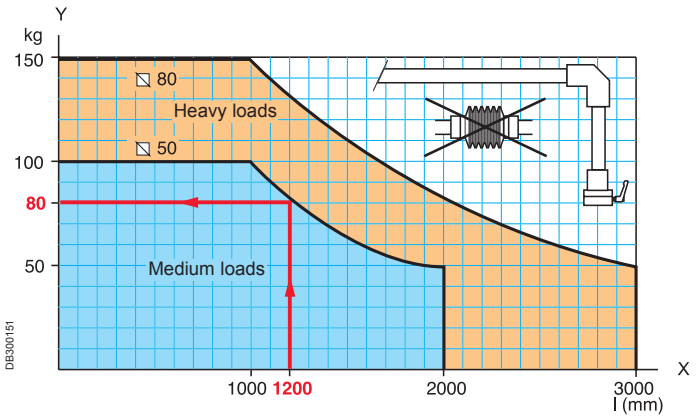
Choice of suspension system according to the overhang load and configuration

Example 1:

1 Total load (kg) = 80 kg.
2 Length (L) = 1200 mm.
3 Suspension system without intermediate joint.

Recommended system

> **Medium loads ⧄ 50.**

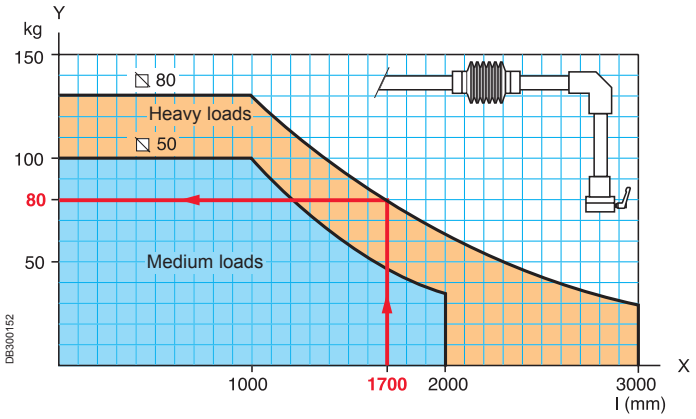


Example 2:

1 Total load (kg) = 80 kg.
2 Length (L) = 1700 mm.
3 Suspension system with intermediate joint.

Recommended system

> **Heavy loads ⧄ 80.**

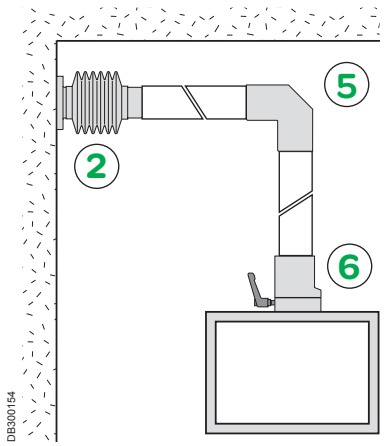


Selection guide

Enclosure	H x W x D (mm) top wall	References – Tube section ⌀ 50 mm	References – Tube section ⌀ 80 mm
PB500421	300 x 300 x 200	NSYS3CM303020	-
	300 x 400 x 200	NSYS3CM304020	-
	400 x 400 x 200	NSYS3CM404020	-
	400 x 600 x 250	NSYS3CM406025	-
	500 x 500 x 250	NSYS3CM505025	-
	600 x 600 x 200	NSYS3CM606020	-
	600 x 800 x 300	-	NSYS3CM608030
	800 x 600 x 300	-	NSYS3CM806030
Tube	**Length (m) / Tube section**	**⌀ 50 mm**	**⌀ 80 mm**
PB500422	0.5	NSYCMT5005	NSYCMT8005
	1	NSYCMT5010	NSYCMT8010
	1.5	NSYCMT5015	NSYCMT8015
	2	NSYCMT5020	NSYCMT8020
Fixing on support (steel material)		**⌀ 50 mm**	**⌀ 80 mm**
PB500423	1 Fixed base	NSYCMUMR50	NSYCMUMR80
PB500424	2 Wall fixing with joint	NSYCMUMA50	NSYCMUMA80
PB500425	3 Rotating straight fitting	NSYCMUMC50	NSYCMUMC80
Inter-tube fitting (aluminium material)		**⌀ 50 mm**	**⌀ 80 mm**
PB500426	4 Horizontal inter-tube joint	NSYCMUIA50	NSYCMUIA80
PB500427	5 Fixed bracket	NSYCMUTC50	NSYCMUTC80
Fixing on enclosure (aluminium material)		**⌀ 50 mm**	**⌀ 80 mm**
PB500428	6 Rotating fixing on enclosure	NSYCMUCR50	NSYCMUCR80
PB500429	7 Rotating fixing in bracket on enclosure	NSYCMUCC50	NSYCMUCC80
PB500430	8 Tilting fixing on enclosure	NSYCMUCP50	NSYCMUCP80 (1)

(1) Installation on an enclosure D300 requires plate ref. **NSYCMUCPAD87** (see page **506**).

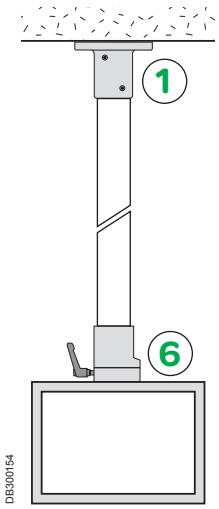
Assembly overview



Fixing on support
2 See page 501

Inter-tube fitting
5 See page 503

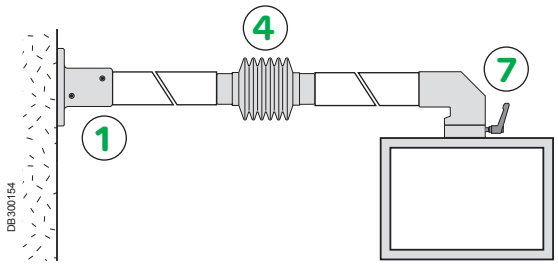
Fixing on enclosure
6 See page 504



Fixing on support
1 See page 501

Inter-tube fitting
-

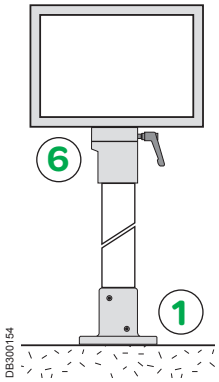
Fixing on enclosure
6 See page 504



Fixing on support
1 See page 501

Inter-tube fitting
4 See page 503

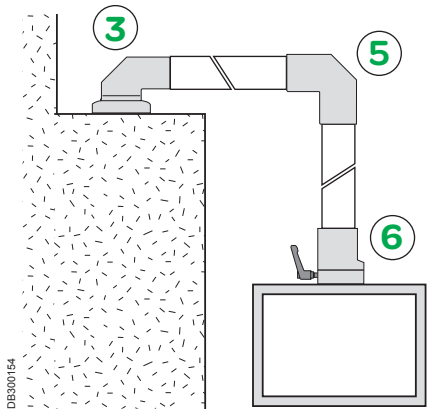
Fixing on enclosure
7 See page 505



Fixing on support
1 See page 501

Inter-tube fitting
-

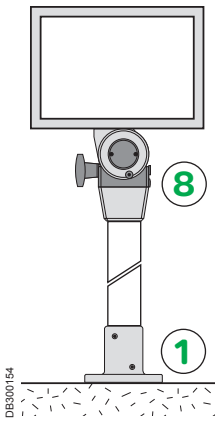
Fixing on enclosure
6 See page 504



Fixing on support
3 See page 502

Inter-tube fitting
5 See page 503

Fixing on enclosure
6 See page 504



Fixing on support
1 See page 501

Inter-tube fitting
-

Fixing on enclosure
8 See page 506

Control enclosure
Introduction

PB500435

Technical characteristics:

- RAL 7035 grey, structured finish, epoxy-polyester powder.
- Protection degree: IP 54.
- Resistance to external mechanical impacts: IK 10.
- Dimensions and weights, see page **497**.

The control enclosures consist of:

- **A steel body equipped with:**

– Reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure.
– 4 welded studs on the 2 inner vertical walls, for fixing the rails.
– 2 rails (with drill holes) for installing equipment.
– A rear door, opening to 120° and closing with double-bar lock.

- **An aluminium front face (2.5 mm thick):**

– This surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements.
– A trim frame made from 4 extruded-aluminium rails: the frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand).

- The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.

PB500431

Perforated rails installed on lateral studs:

PB500432

Rear door with double-bar lock.

PB500417

Detail of the reinforcement plate.

PB500434

Fixing of the trim frame by screws.

PB500420

Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	**NSYS3CM303020**
300	400	200	9.5	50	**NSYS3CM304020**
400	400	200	11.4	50	**NSYS3CM404020**
400	600	250	17.9	50	**NSYS3CM406025***
500	500	250	20.2	50	**NSYS3CM505025**
600	600	200	26.5	50	**NSYS3CM606020***
600	800	300	34.9	80	**NSYS3CM608030**
800	600	300	33.6	80	**NSYS3CM806030***

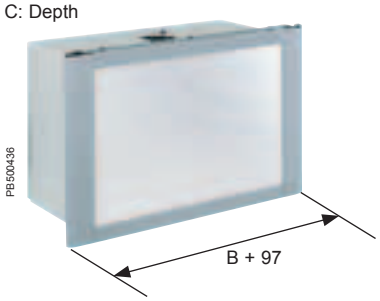
* Enclosure equipped with a cable-gland plate (see diagram below).

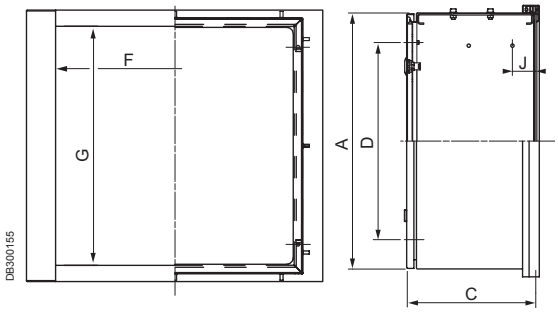
Dimensions

Enclosure dimensions (mm)			D	F	G	H	J	Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height A	Width B	Depth C									References
300	300	200	162	262	262	100	45	-	54	1	**NSYS3CM303020**
300	400	200	162	362	262	100	45	-	54	1	**NSYS3CM304020**
400	400	200	262	362	362	100	45	-	54	1	**NSYS3CM404020**
400	600	250	262	562	362	125	75	●	54	1	**NSYS3CM406025***
500	500	250	362	462	462	125	75	-	54	1	**NSYS3CM505025**
600	600	200	462	562	562	100	45	●	54	1	**NSYS3CM606020***
600	800	300	462	762	562	150	100	-	87	2	**NSYS3CM608030**
800	600	300	662	562	762	150	100	●	87	2	**NSYS3CM806030***

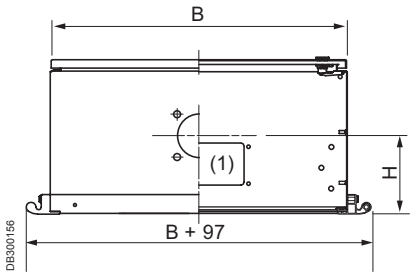
* Enclosure equipped with a cable-gland plate (see diagram below).

A: Height
B: Width
C: Depth





W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

Figure 1

Enclosure depth from 200 to 250

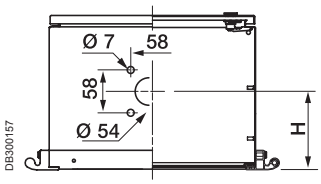
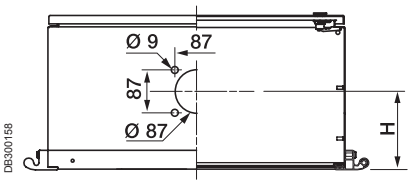


Figure 2

Enclosure depth 300



Box-keyboard for control enclosure

Introduction

PB500437

PB500438

The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry.

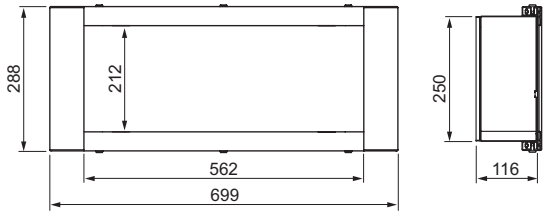
Technical features:

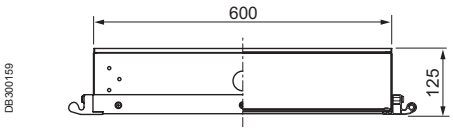
- Protection degree: IP 54.
- Resistance to external mechanical impacts: IK 10.
- Weight: 8 kg.

The box for the keyboard consists of:

- A steel body, structured finish, epoxy-polyester powder, RAL 7035 grey colour, with a screwed cover.
- An aluminium front face (2.5 mm thick) for installing a keyboard.
- A trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit.
  The frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour.

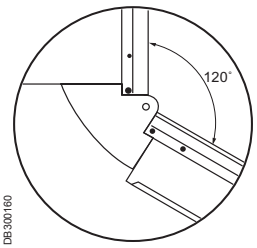
External dimensions (mm)			Box-keyboard
Height	Width	Depth	Reference
250	600	116	**NSYCMT2560110**





DB300159

Detail from the installation of the box-keyboard on the control enclosure



DB300160

Specific

These enclosures can be customised (colour, machining, etc.). Please contact us.

Accessories

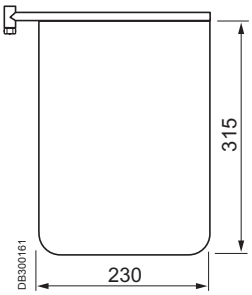
Support example.

Support

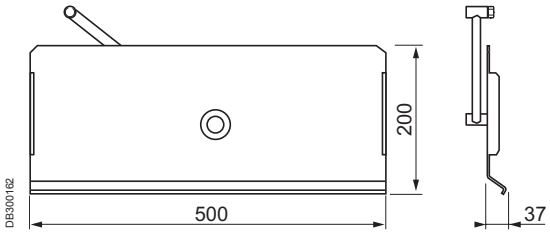
- Three different types of support are available:
  – Vertical support for documents, size 315 x 230 mm, sheet steel 1.2 mm thick.
  – Horizontal support for keyboard, size 500 x 200 mm, sheet steel 2 mm thick.
  – Horizontal support for laptop computer, size 350 x 310 mm, sheet steel 2 mm thick.
- Installation on the left or right rail of the frame of the control enclosure.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

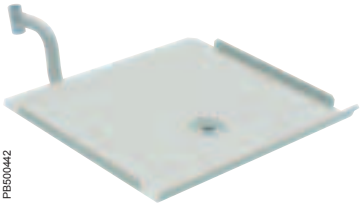
Weight (kg)	Type of support	References
1.15	Vertical	**NSYCMSPP**
2.16	Keyboard	**NSYCMBPT**
2.04	Laptop computer	**NSYCMBPC**

NSYCMSPP

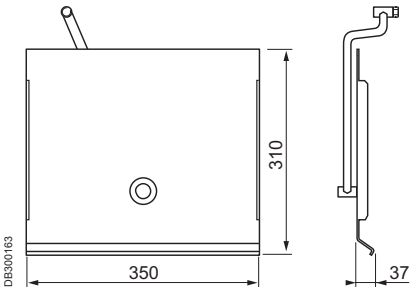


NSYCMBPT

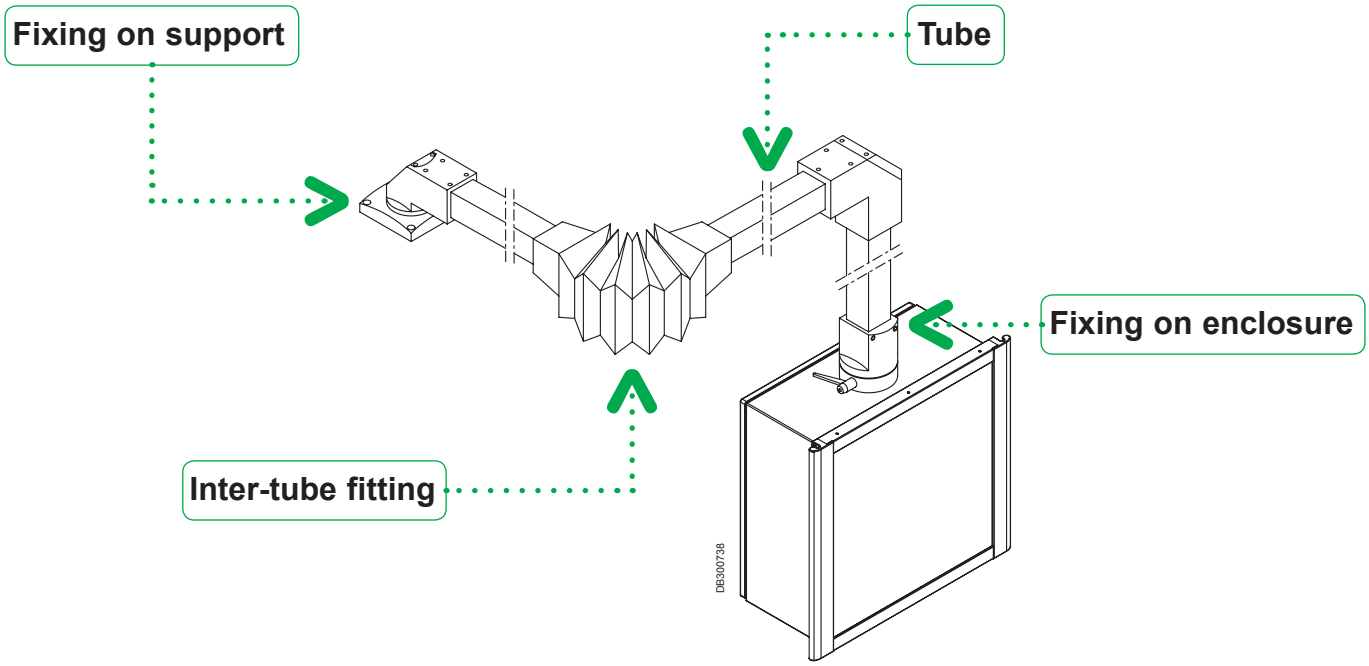


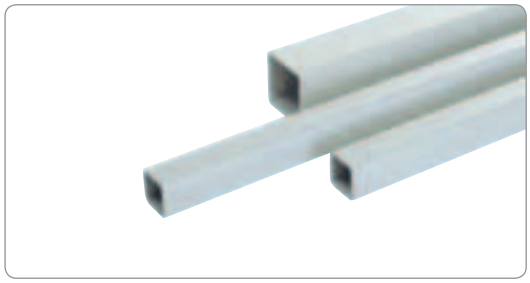


NSYCMBPC



Suspension system
Fixing on support

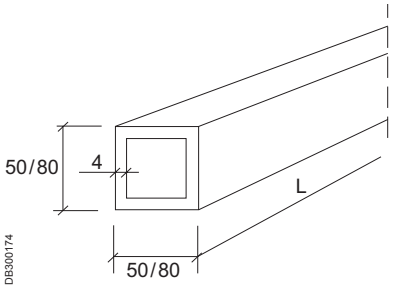



PB500422

Tube

- The tubes are available in:
– 2 sizes: square of 50 and 80 mm.
– 4 lengths: 0.5, 1, 1.5 and 2 m.
- Material: extruded steel, 4 mm thick, structured finish, powder, RAL 7035 grey colour.
- Weights:
– 50 x 80: 6.5 kg/m.
– 80 x 80: 10.5 kg/m.

Joints		
References		
Length (m)	50 mm square	80 mm square
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020

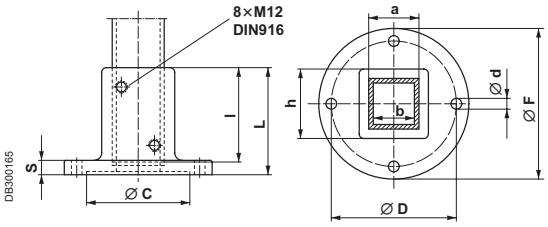


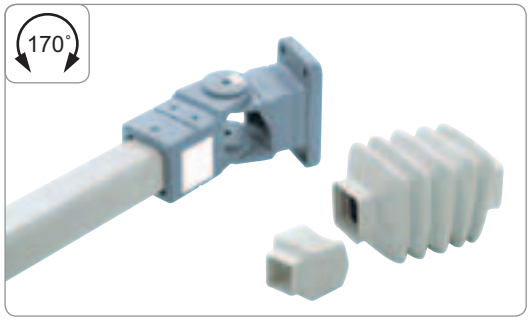
Suspension system
Fixing on support

1 Fixed base

- Support foot for direct horizontal or vertical connection.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)										Weight (kg)	References
⧄ a	b	c	d	D	F	h	I	L	S		
50 mm square	42	105	11	125	152	72	97	110	15	3.25	**NSYCMUMR50**
80 mm square	72	134	11	173	201	111	126	140	16	7	**NSYCMUMR80**

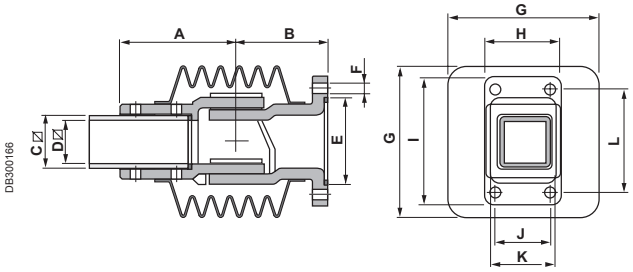




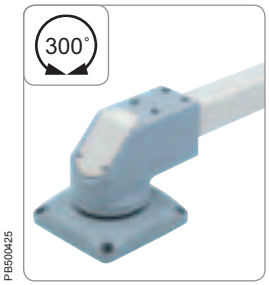
2 Wall fixing with joint

- Device allowing rotation through 170º of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)												Weight (kg)	References
⧄ C for tube	A	B	D	E	F	G	H	I	J	K	L		
50 mm square	118	92	42	85	11	148	80	130	55	68	105	4.35	**NSYCMUMA50**
80 mm square	160	115	72	130	11	190	115	175	90	103	150	9.45	**NSYCMUMA80**



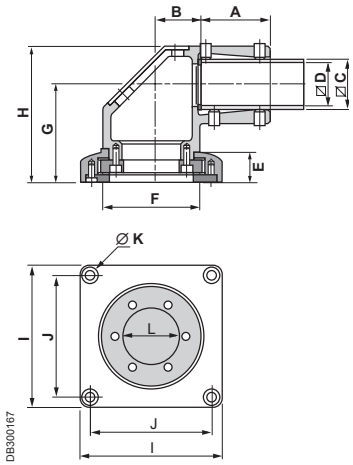
Suspension system
Fixing on support



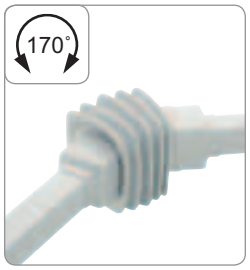
3 Rotating straight fitting

- Device allowing the fixing and rotation through 295° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- Without blocking the chosen position.
- Option of passing cables through the inside.
- Material: moulded steel, structured finish, epoxy-polyester powder, RAL 7040 grey colour.
- Fixing by 4 screws, not included.

Dimensions (mm)												Weight (kg)	References
⧅ C	A	B	D	E	F	G	H	I	J	K	L		
50 mm square	68	50	42	30	96	96	134	140	120	9	55	5.4	**NSYCMUMC50**
80 mm square	98	74	72	45	144	141.5	195.5	210	180	13	84	15.7	**NSYCMUMC80**



Suspension system
Inter-tube fitting

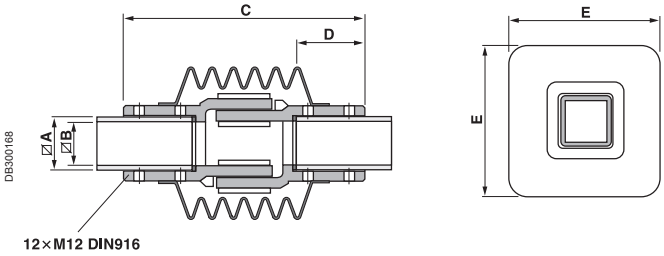


PB500426

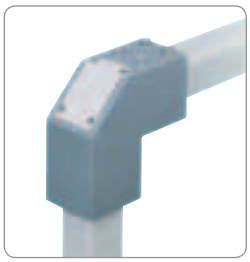
4 Horizontal inter-tube joint

- Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)					Weight (kg)	References
⧅ A for tube	B	C	D	E		
50 mm square	42	236	67	148	4.25	**NSYCMUIA50**
80 mm square	72	320	94	190	10	**NSYCMUIA80**



DB300168

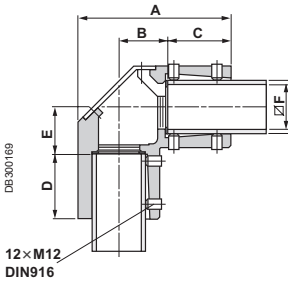

PB500427

5 Fixed bracket

Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Every model is suitable for tubes with a square section of 50 mm for light loads, or of 80 mm for heavy loads (see selection table on page **494**).

- Device allowing the combination and fixing of a horizontal tube with a vertical tube.
- Two models for tubes with a square section of 50 or 80 mm.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)							Weight (kg)	Fixed bracket
⧅ G	A	B	C	D	E	F		References
50 mm square	144	46	60	60	46	42	1.35	**NSYCMUTC50**
80 mm square	193	56	83	83	56	70	2.4	**NSYCMUTC80**



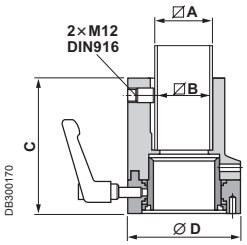
DB300169

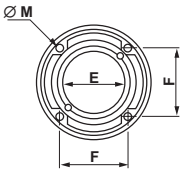
Suspension system
Fixing on enclosure

6 Rotating fixing on enclosure

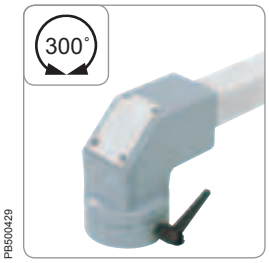
- Device allowing the fixing and rotation through 310º of tubes, with a square section of 50 or 80 mm, in vertical position.
- System for blocking in the chosen position.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.
- Fixing through the support surface by 4 screws.

Dimensions (mm)							Weight (kg)	References
⍁ A	B	C	D	E	F	M		
50 mm square	42	115	96	52,3	58	M6	1.25	**NSYCMUCR50**
80 mm square	72	145	139	85	87	M8	3.1	**NSYCMUCR80**





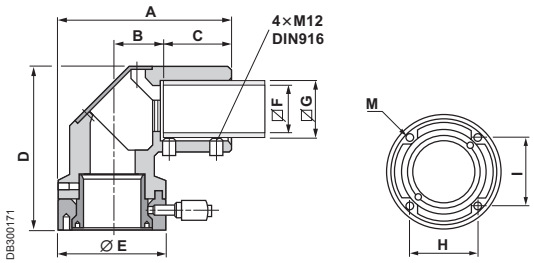
Suspension system
Fixing on enclosure

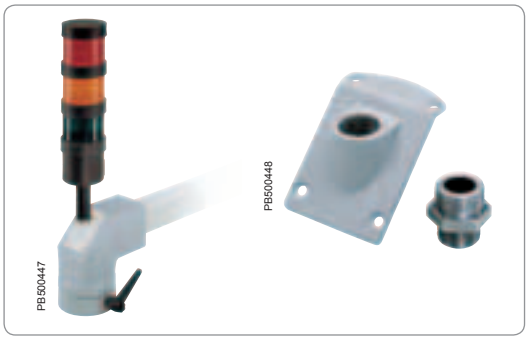


7 Rotating fixing in bracket on enclosure

- Devices allowing the fixing and rotation through 310° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- System for blocking in the chosen position.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.
- Fixing through the support surface by 4 screws.

Dimensions (mm)										Weight (kg)	References
⌀ G	A	B	C	D	E	F	H	I	M		
50 mm square	154	46	60	147	96	42	42	58	M6	2	**NSYCMUCC50**
80 mm square	208.5	56	83	190	139	72	70	87	M8	6.55	**NSYCMUCC80**

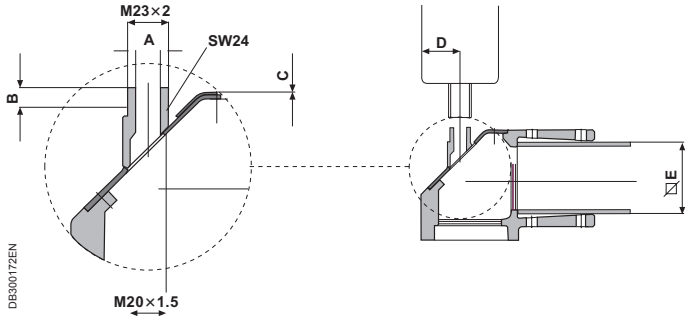




Adapter for signalling beacon

- This adapter allows the direct installation of a beacon for signalling the state of the machine.
- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)					Weight (kg)	References
⌀ E	A	B	C	D		
50 mm square	14	11	8.7	31.5	0.025	**NSYCMACS50**
80 mm square	14	11	2.5	43	0.08	**NSYCMACS80**



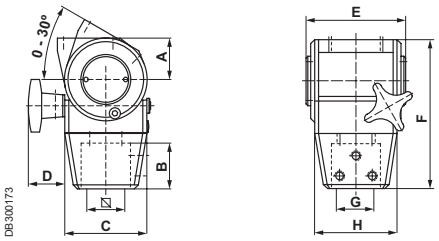
Suspension system
Fixing on enclosure

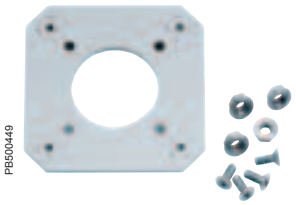
PB500430

8 Tilting fixing on enclosure

- This fixing allows the enclosures to be tilted up to 30°.
- System for blocking in the chosen position.
- It is installed on enclosures with depths of 200 and 250 mm.
- The installation on enclosures with a depth of 300 mm requires an adapter plate.

Dimensions (mm)									Weight (kg)	References Ø 50 mm
Ø for tube	A	B	C	D	E	F	G	H		
50 mm square	50	55	100	44	121	182	50	100	2.98	**NSYCMUCP50**
80 mm square	50	55	100	44	121	182	50	100	3.10	**NSYCMUCP80**

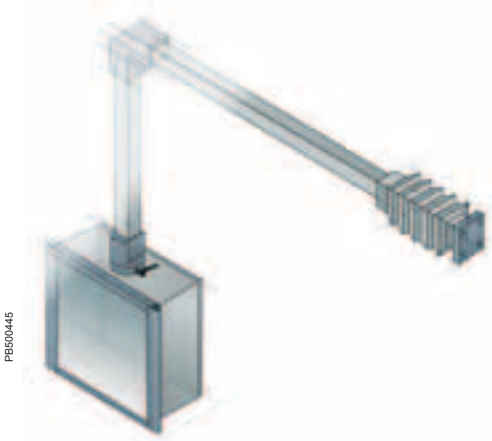



PB500449

Adapter part for enclosure D300 / Ø 80 mm

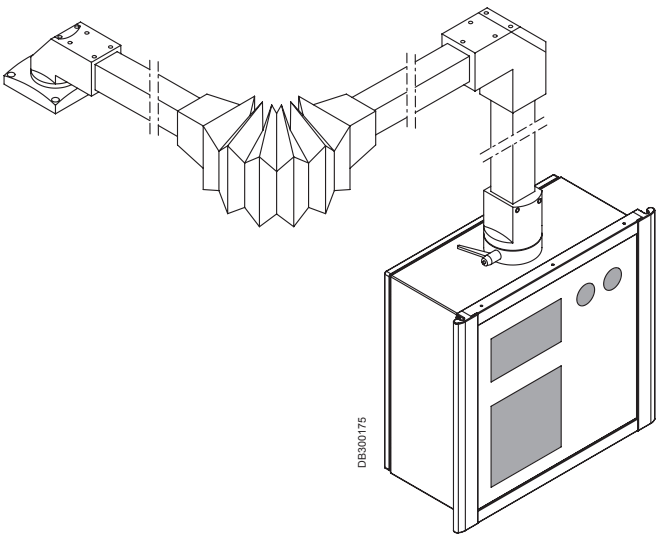
Reference
NSYCMUCPAD87

Suspension system
Exemples



Example
Installation on enclosure with rotating straight fixing, fixed fitting bracket and support fixing with joint.

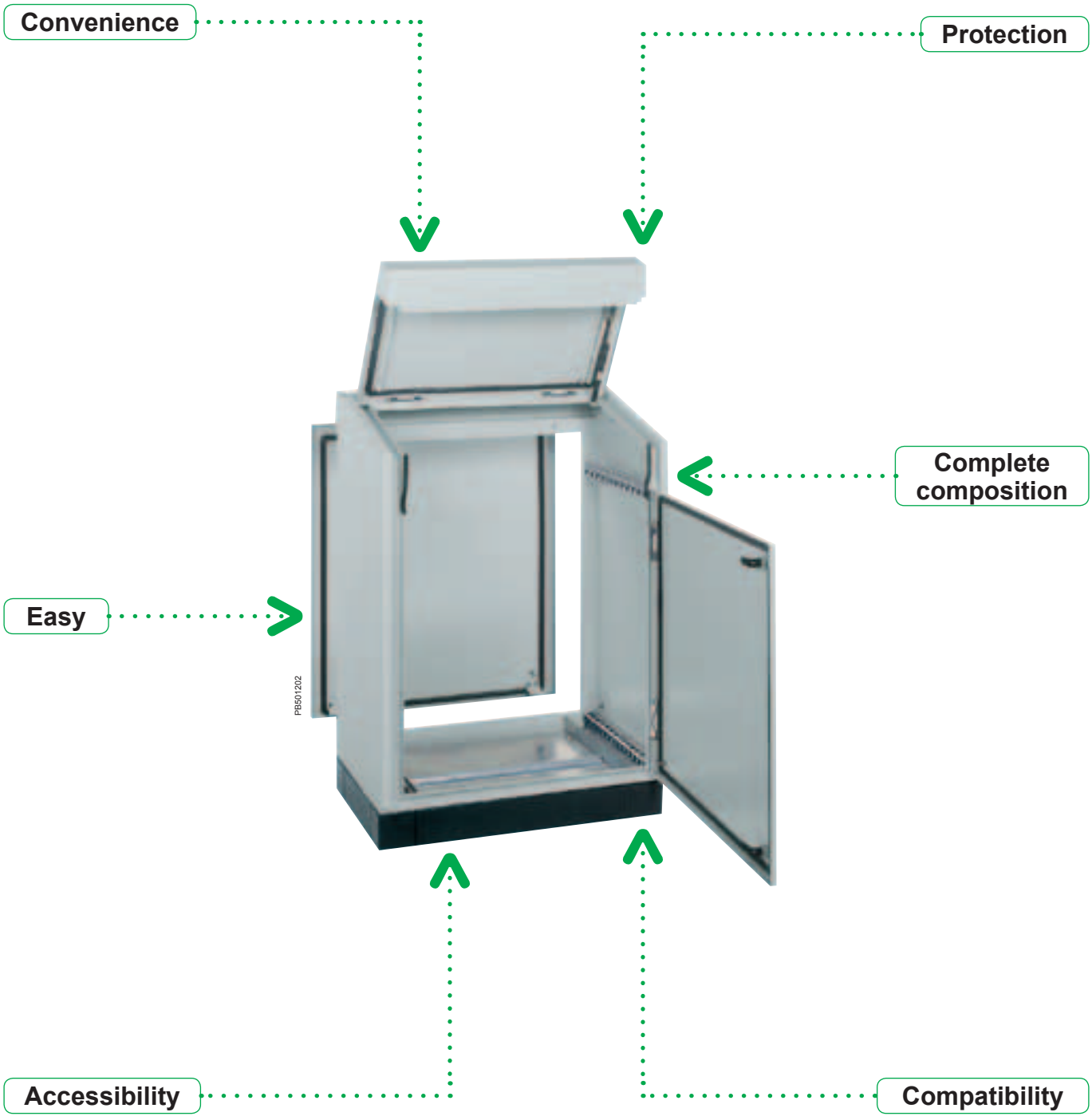
Example
Installation with tilting fixing on the enclosure and fixed base.



Specific

Cut-outs on front face: contact us.

Steel Control Desk solutions



Steel Control Desk solutions

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

Spacial SD offers two clearly differentiated solutions:

- The SD Compact control desk, available in 4 different widths (600, 800, 1000 and 1200 mm).
- The SD Control desk with console, available in 4 different widths (800, 1000, 1200 and 1600 mm).

Protection

The Spacial SD range has protection ratings of IP 55 and IK 10, which guarantee the safety and the protection of the installed devices.

Accessibility

There are two versions of the Compact control desk:
- Front accessibility: Designed for straightforward solutions.
- Front and rear accessibility through a removable panel: Enables the installation of two adjoining plates and to work at the rear.

The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes.

For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities. For this reason, its design excludes the central upright.

Easy

The console opens easily and safely thanks to the installed pneumatic opening lid stays.

Cable entry is optimised because all the models of the range include a cable-gland plate with two adjustable parts.

Convenience

The possibility of connecting the modular control desk to the modular consoles affords multiple combinations.

The opening direction of the door can be changed quickly thanks to the included hinges.

Complete composition

All the control desks have mounting plate supports and rails that allow the installation of all kinds of mounting plates. Adjustable with a pitch of 25 mm.

The console and the front panels are equipped with cut-out vertical rails to allow quick installation of all types of equipment.

Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

PB501196

PB501199

PB501200

PB501202

PB501194

PB501197

PB501186

Specific

Customised enclosure production, contact us.

Compact Control Desks
Introduction

PB501200

PB501201

*Example of installation of a plain mounting plate.
To be order separately.

Spacial SD Compact control desk

- This range is available in 4 widths (600, 800, 1000 and 1200 mm) with fixed rear panel. Full accessibility is provided from the front (no central upright).

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible door opening to 120°. Locking by 3-mm double-bar lock (other inserts or cylinders also available, to be ordered separately, see page **523**).
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18-mm earthing bolt for equipotential connection between the door and the body.

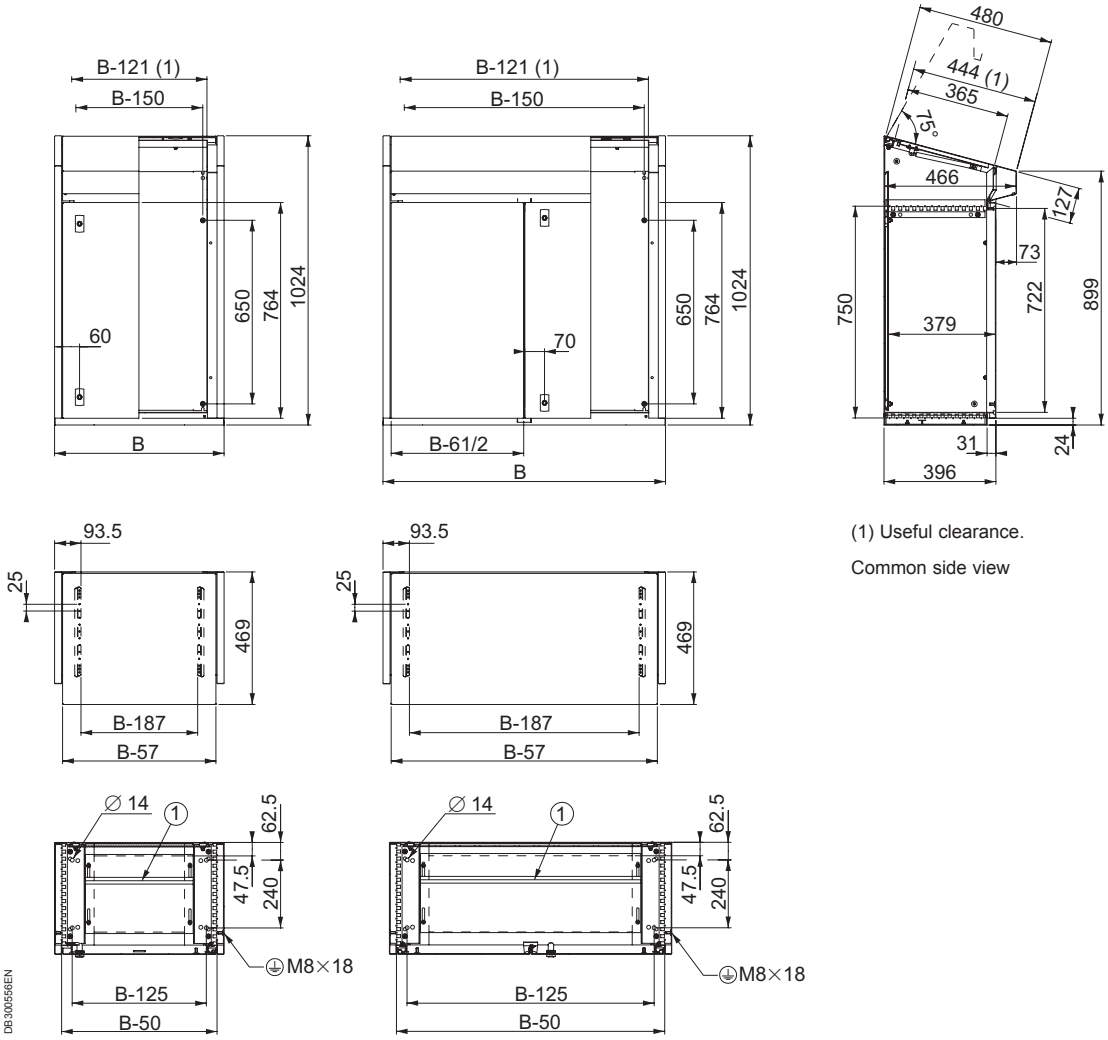
Dedicated accessories

- It can also be equipped with a mounting plate*, see page **524**.

Dimensions (mm)			Door number	Reference
Width (B)	Height	Depth		Without mounting plate
600	1000	469	1	**NSYSD6**
800	1000	469	1	**NSYSD8**
1000	1000	469	2	**NSYSD10**
1200	1000	469	2	**NSYSD12**

Compact Control Desks
Dimensions

1 door **2 doors**



(1) Useful clearance.

Common side view

Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

Compact control desks
Introduction

PB501202

PB501192

(2) Example of installation of a plain mounting plate.
To be order separately.

PB501195

(1) Example of installation of a modular console.

Spacial SD Compact control desk with rear panel

- Removable rear panel. It enables the installation of two racks back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible door, opening to 120°. Locking by 3-mm double-bar lock (other inserts or cylinders also available, to be ordered separately, see page **523**).
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Top cable-entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18-mm earthing screw for equipotential connection between the door and the body.

Dedicated accessories

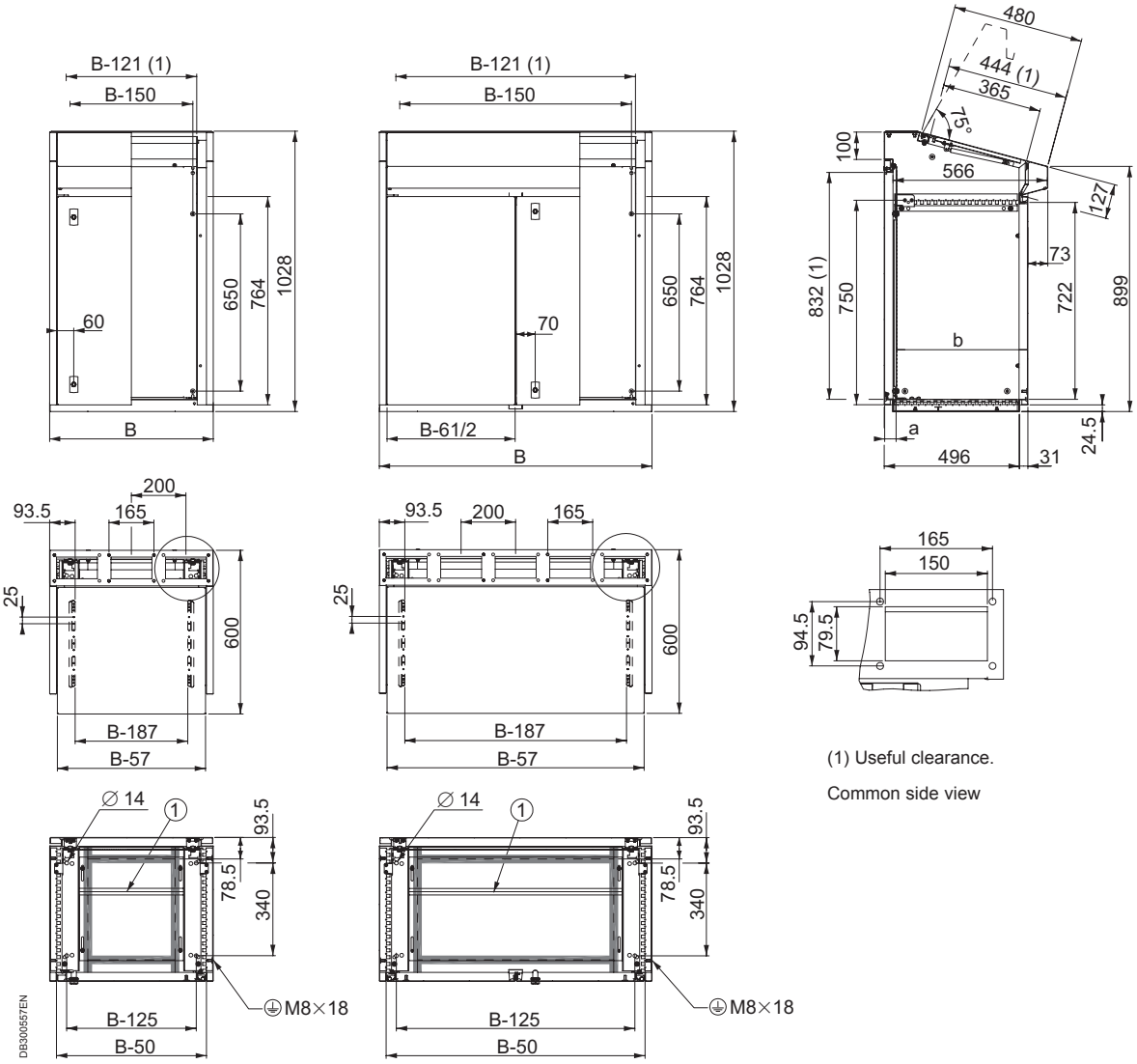
- Modular consoles to be installed on top of compact control desk (1). See details and combinations page **514**.
- It can also be equipped with a mounting plate (2), see page **524**.

Dimensions (mm)			Door number	Reference
Width (B)	Height	Depth		Without mounting plate
600	1000	600	1	**NSYSD6R**
800	1000	600	1	**NSYSD8R**
1000	1000	600	2	**NSYSD10R**
1200	1000	600	2	**NSYSD12R**

Compact control desks
Dimensions

Spacial SD Compact control desks with rear panel

1 door **2 doors**



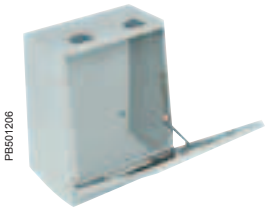
(1) Useful clearance.

Common side view

Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	42	392
b	129	479

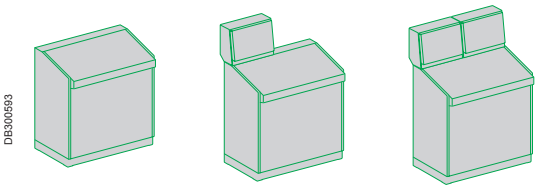
Modular consoles
Introduction


PB501206

PB501204

PB501205

* Example of installation of a modular console.


DB300593

Multiple combinations, see page **516**.

Modular consoles for Compact control desk with rear panel

- Two widths: 400 and 600 mm.
- Two depths: 200 and 300 mm.

Technical characteristics

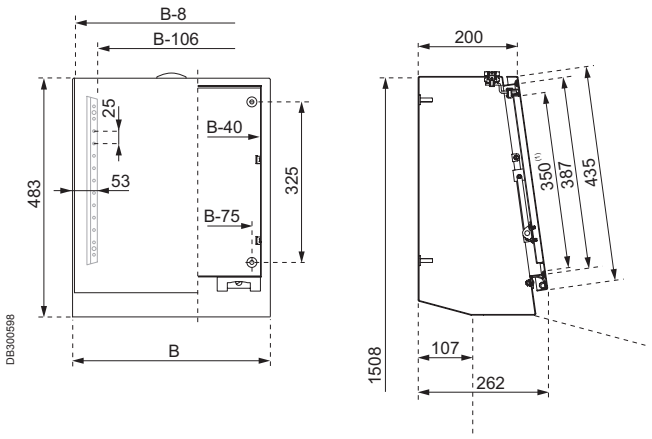
- Welded folded sheet steel, thickness 15 / 10 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°.
- Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page **523**).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.

Dedicated accessories

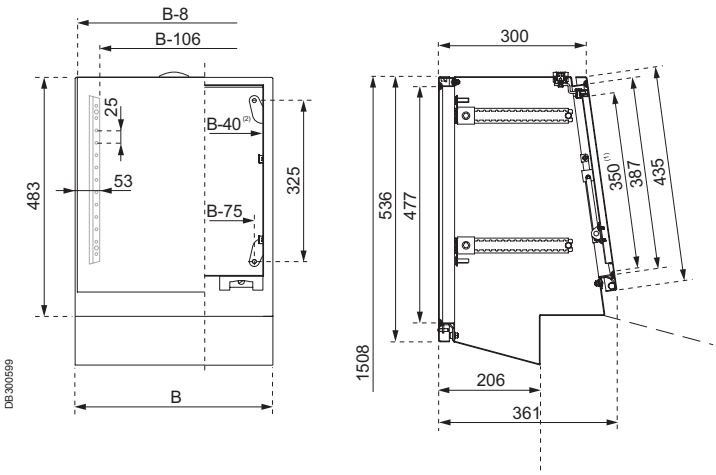
- The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
- Optional galvanised mounting plate.

Modular console dimensions (mm)			Nº cable entry cut-outs	Reference
Height	Width (B)	Depth		
483	400	200	2	**NSYSDC42**
483	400	300	2	**NSYSDC43**
483	600	200	3	**NSYSDC62**
483	600	300	3	**NSYSDC63**

Modular console, depth 200 mm

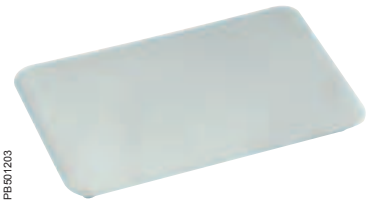


Modular console, depth 300 mm



(1) Useful clearance.
(2) Same dimensions for the rear panel.

Modular consoles
Accessoires


PB501203

Blanking cover

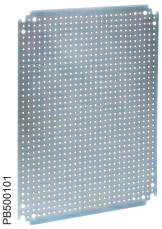
- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk (see the connection examples below). In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Lengths: 200 mm.
- Sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Fixing by screws.

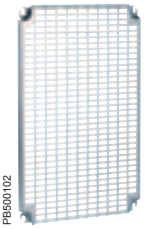
Blanking cover length (mm)	Reference RAL 7035
200	**NSYRP2**

Mounting plates for modular consoles

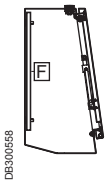
- Steel mounting plates can be installed at the back of modular consoles (F).
- See more information about the mounting plates pages **324 to 332**.

PB500072


PB500101

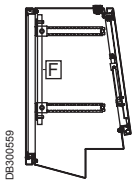

PB500102

Modular console width (mm)	Fixing centre-to-centre distance (mm)		Plain mounting plate	Microperforated mounting plate	Telequick mounting plate
	Height	Width			
400	325	325	**NSYMM44**	**NSYMF44**	**NSYMR44**
600	625	325	**NSYMM64**	**NSYMF64**	**NSYMR64**



DB300558

Example installation of a mounting plate in a console depth 200 mm.

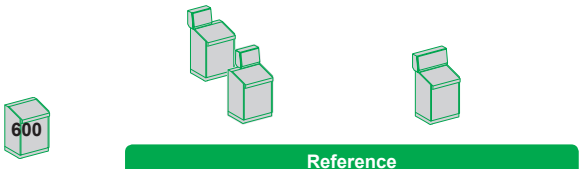


DB300559

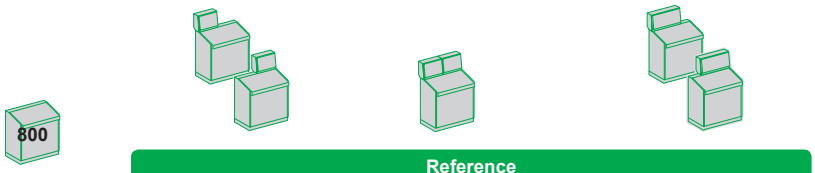
Example installation of a mounting plate in a console depth 300 mm.

Modular consoles
Combinations

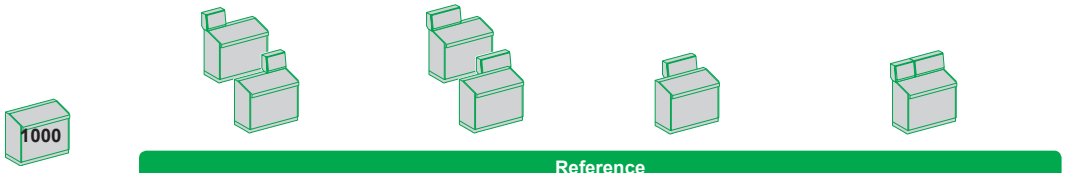
Combination examples of modular consoles installation



	Reference	
Compact control desk	NSYSD6R	NSYSD6R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63
Blanking cover	NSYRP2	–



	Reference		
Compact control desk	NSYSD8R	NSYSD8R	NSYSD8R
Modular console	NSYSDC42/ NSYSDC43	2 x NSYSDC42/ 2 x NSYSDC43	NSYSDC62/ NSYSDC63
Blanking cover	2 x NSYRP2	–	NSYRP2

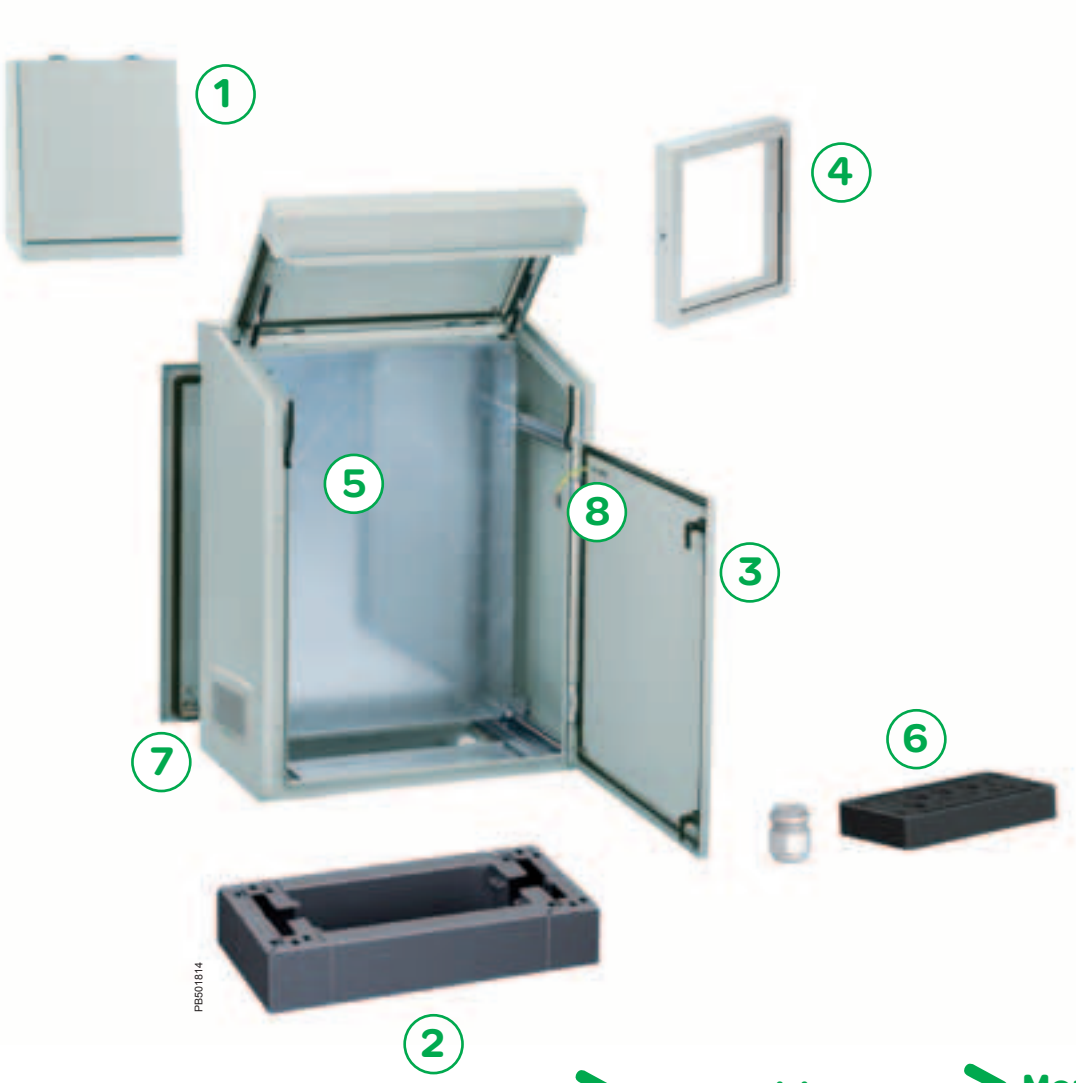


	Reference			
Compact control desk	NSYSD10R	NSYSD10R	NSYSD10R	NSYSD10R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63	NSYSDC62/ NSYSDC63	NSYSDC42 + NSYSDC62/ NSYSDC43 + NSYSDC63
Blanking cover	3 x NSYRP2	2 x NSYRP2	2 x NSYRP2	–

	Reference				
Compact control desk	NSYSD12R	NSYSD12R	NSYSD12R	NSYSD12R	NSYSD12R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63	NSYSDC62/ NSYSDC63	2 x NSYSDC62/ 2 x NSYSDC63	NSYSDC42 + NSYSDC62/ NSYSDC43 + NSYSDC63
Blanking cover	4 x NSYRP2	3 x NSYRP2	3 x NSYRP2	–	NSYRP2

DB300562

Broad range of accessories



> Composition

1. Modular consoles see page **514**
2. Floor see page **520**
3. Door and locking see page **521**
4. Windows see page **473**

> Mounting and cable management

5. Installation see page **524**
6. Cable management see page **420**
7. Thermal management see page **657**
8. Earthing see page **478**

Configured

Save time by having your accessories mounted in the factory!
To find out more about our Configured offer, please contact us.

Control Desks with console
Introduction

PB501193

PB501208

Spacial SD Control desk with console

- With a height of 1400 mm, these control desks are available in four widths (800, 1000, 1200 and 1600 mm) and two depths (845 and 1045 mm).
- Full accessibility is provided from the front and rear.

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible front door, opening to 120°. Locking by two-point locks with 3-mm double-bar insert
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. Locking by two-point locks with 3-mm double-bar insert.
- Hinged console cover equipped with a pneumatic opening stay. Opens to 75°. Locking by two-point locks with 3-mm double-bar insert.
- Easy removable and reversible rear door, opening to 120°. Locking by three-point lock with flat escutcheon, 5-mm double-bar insert.
- One entry cable-gland plate, with polyurethane gasket.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- M8 x 18-mm earthing bolt for equipotential connection between the door and the body.

Dedicated accessories

- Plinth options see page **520**.
- It can also be equipped with a mounting plate (1), see options page **524**.
- Locking system: other inserts or cylinders also available, see page **523**).
- The console can support the installation of a 14” screen with an optional PC support plate (2), see page **526**.

PB501209

(1) Example of intallation of a mounting plate in the upper part.
To be order separately.

PB501210

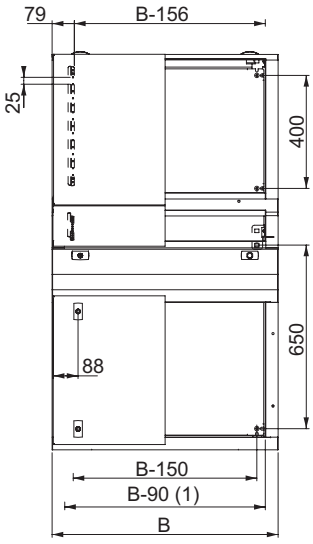
(2) Example of intallation of a PC support plate.
To be order separately.

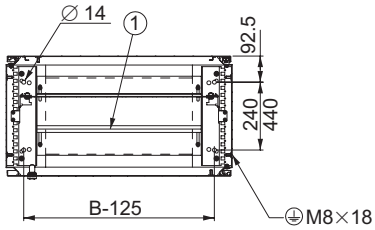
Control desk with console dimensions (mm)			Nº Front doors	Nº Rear doors	Nº cable gland plates	References
Height	Width (B)	Depth				
1400	800	845	1	1	1	**NSYSDF88**
1400	1000	845	2	2	1	**NSYSDF108**
1400	1200	845	2	2	1	**NSYSDF128**
1400	1600	845	2	2	2	**NSYSDF168**
1400	800	1045	1	1	1	**NSYSDF810**
1400	1000	1045	2	2	1	**NSYSDF1010**
1400	1200	1045	2	2	1	**NSYSDF1210**
1400	1600	1045	2	2	2	**NSYSDF1610**

Control Desks with console
Dimensions

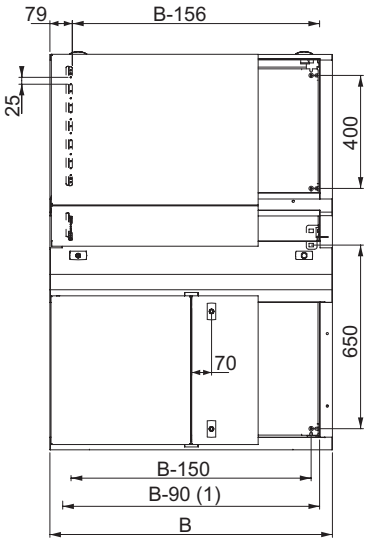
Spacial SD Control desk with console

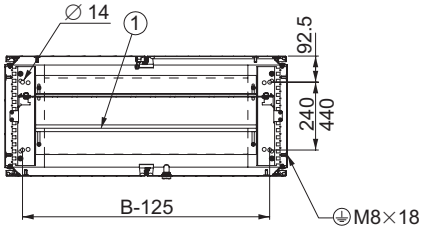
1 door

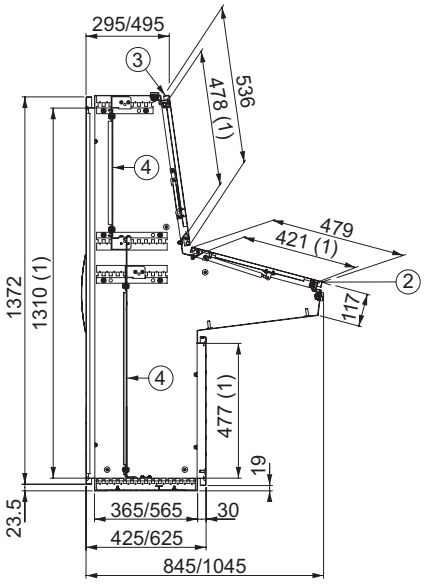




2 doors







(1) Useful clearance.

Common side view

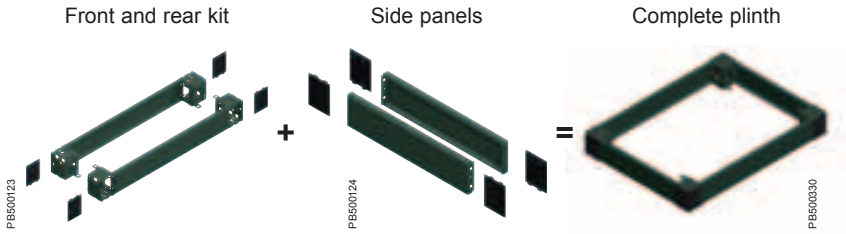
Notes	
①	1 entry cable-gland plate
②	Maximum opening of the hinged desk lid: 75°
③	Maximum opening of the hinged console cover: 75°
④	Optional mounting plate installation, see page 524

Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

Composition accessories
Floor accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.



Front and rear plinth

Accessory shared with the Spacial SM and SF floor-standing enclosures.
Numerous options available: plain, ventilated, with cable gland.
See page **137**.

- Supply:

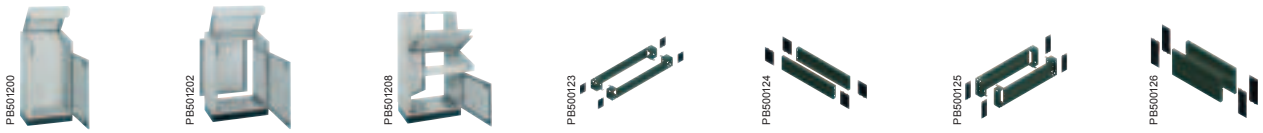
– **Height 100 mm:** 4 corner pieces, 2 panels (front and rear), 4 corner covers and fixing elements.
– **Height 200 mm:** 4 corner pieces, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.

Plinth side panels

They are fixed to the corners of the plinth by two fixing screws.

- Material: folded sheet steel.
- Finish: epoxy-polyester resin paint, RAL 7022 grey colour.
- Protection degree: IP 30 for the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Models with heights: 100 and 200 mm.
- For control desk depths 400, 500 and 600 mm:
- Supply:

– **Height 100 mm:** 2 side panels, 4 corner covers and fixing elements.
– **Height 200 mm:** 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.



Control desk references			Plinths			
Compact Control desks		Control desk with console	Height 100 (mm)		Height 200 (mm)	
With fixed rear panel	With removable rear panel		Front and rear kit	Side panels	Front and rear kit	Side panels
NSYSD6			NSYSPF6100	NSYSPS4100SD	NSYSPF6200	NSYSPS4200SD
NSYSD8			NSYSPF8100	NSYSPS4100SD	NSYSPF8200	NSYSPS4200SD
NSYSD10			NSYSPF10100	NSYSPS4100SD	NSYSPF10200	NSYSPS4200SD
NSYSD12			NSYSPF12100	NSYSPS4100SD	NSYSPF12200	NSYSPS4200SD
	NSYSD6R		NSYSPF6100	NSYSPS5100SD	NSYSPF6200	NSYSPS5200SD
	NSYSD8R		NSYSPF8100	NSYSPS5100SD	NSYSPF8200	NSYSPS5200SD
	NSYSD10R		NSYSPF10100	NSYSPS5100SD	NSYSPF10200	NSYSPS5200SD
	NSYSD12R		NSYSPF12100	NSYSPS5100SD	NSYSPF12200	NSYSPS5200SD
		NSYSDF88	NSYSPF8100	NSYSPS6100SD	NSYSPF8200	NSYSPS6200SD
		NSYSDF108	NSYSPF10100	NSYSPS6100SD	NSYSPF10200	NSYSPS6200SD
		NSYSDF128	NSYSPF12100	NSYSPS6100SD	NSYSPF12200	NSYSPS6200SD
		NSYSDF168	NSYSPF16100	NSYSPS6100SD	NSYSPF16200	NSYSPS6200SD
		NSYSDF810	NSYSPF8100	NSYSPS6100SD	NSYSPF8200	NSYSPS6200SD
		NSYSDF1010	NSYSPF10100	NSYSPS6100SD	NSYSPF10200	NSYSPS6200SD
		NSYSDF1210	NSYSPF12100	NSYSPS6100SD	NSYSPF12200	NSYSPS6200SD
		NSYSDF1610	NSYSPF16100	NSYSPS6100SD	NSYSPF16200	NSYSPS6200SD

Composition accessories
Door accessories

PB501213

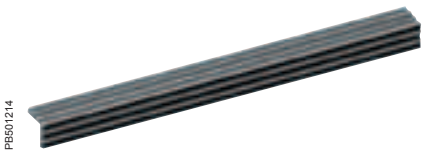
Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- Delivered with fixings.

Nominal load per stay (N)	Stay reference
244	**NSYPLS24**
300	**NSYPLS30**

- The stays are delivered as standard with the control desks, according to the following table:

Max. load on lid (kg)	Control desk reference	Standard supply stay
13	**NSYSD6** and **NSYSD6R**	**NSYPLS24**
13	**NSYSD8** and **NSYSD8R**	**NSYPLS24**
17	**NSYSD10** and **NSYSD10R**	**NSYPLS30**
15	**NSYSD12** and **NSYSD12R**	**NSYPLS30**
13	**NSYSDF88** and **NSYSDF810**	**NSYPLS24**
17	**NSYSDF108** and **NSYSDF1010**	**NSYPLS30**
15	**NSYSDF128** and **NSYSDF1210**	**NSYPLS30**
11	**NSYSDF168** and **NSYSDF1610**	**NSYPLS30**


PB501214

Document lip

- Retaining bar to be fixed on the front of the inclined control desk lid. Prevents documents and equipment from falling.
- Material: PVC, RAL 7011 grey.
- Fixing by adhesive.

Control desk width (mm)	Reference
600	**NSYDL6**
800	**NSYDL8**
1000	**NSYDL10**
1200	**NSYDL12**
1600	**NSYDL16**

Composition accessories
Locking system

PB501215

Locks and inserts

- The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.
- Possibility to replace the standard shape insert:

Description	Reference
8-mm triangular insert	**NSYTT8CRN**
8-mm male square insert	**NSYTC8CRN**
7-mm male square insert	**NSYTC7CRN**

PB501216

NSYML405SD

Escutcheon with key lock

- Polyamide PA 6 material charged with 30% fibreglass.
- RAL 7011 grey.
- Fire resistance: 650°.
- Resistance to external mechanical impacts: IK 10.
- Insert breakage torque: 15 daN.

Description	Reference
405 E key	**NSYML405SD**

PB501217

Pivoting handle

- To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard.
- Ergonomic locking system with pivoting handle (delivered without insert).
- Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA). See page 523.
- Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed). Lock unit supported by 2 screws.

Technical features

- Material: PA 6 charged with 30% fibreglass.
- Colour RAL 7011 grey.
- Fire resistance: 650°.
- Resistance to external mechanical impacts: IK 10.

Description	Reference
Pivoting handle without insert	**NSYSDH**

Composition accessories
Locking system

Shape inserts and cylindrical barrels for pivoting handle

Shape inserts	Reference
6-mm square insert	**NSYINS61**
6-mm female square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
8-mm female square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
USA keyless slot insert	**NSYINUSA1**
2 x 4 keyless slot insert	**NSYIN241**
Crown insert	**NSYINCW1**

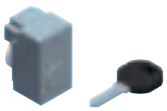
PB500614

Push button	Reference
Push button	**NSYINPULSD**

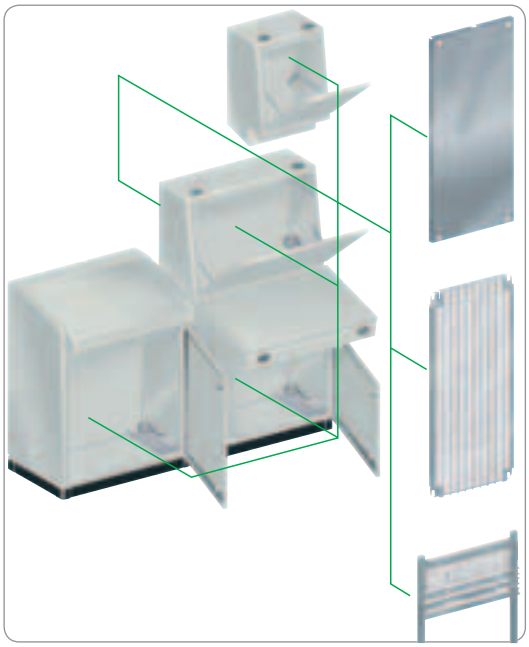
PB501218

Cylindrical barrels	Reference
Lock with 405E key	**NSYIN405E1**
Lock with 421E key	**NSYIN421E1**
Lock with 455 key	**NSYIN4551**
Lock with 1242E key	**NSYIN1242E1**
Lock with 1332E key	**NSYIN1332E1**
Lock with 2124E key	**NSYIN2124E1**
Lock with 2131A key	**NSYIN2131A1**
Lock with 2132A key	**NSYIN2132A1**
Lock with 2331A key	**NSYIN2331A1**
Lock with 2433A key	**NSYIN2433A1**
Lock with 2452E key	**NSYIN2452E1**
Lock with 3113A key	**NSYIN3113A1**
Lock with 3122E key	**NSYIN3122E1**
Lock with 3123A key	**NSYIN3123A1**
Lock with 3133A key	**NSYIN3133A1**
Lock with 3422E key	**NSYIN3422E1**
Lock with 3432E key	**NSYIN3432E1**
Lock with EDF1300 key	**NSYINF1301**
Lock with EDF1400 key	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

PB500616



Mounting accessories
Installation accessories


PB501219

Plain mounting plate

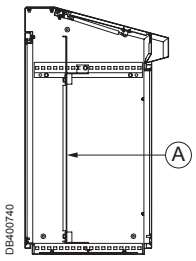
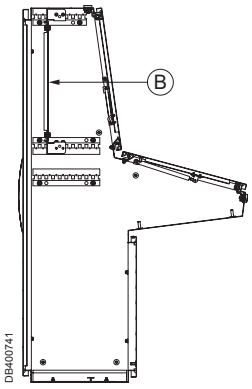
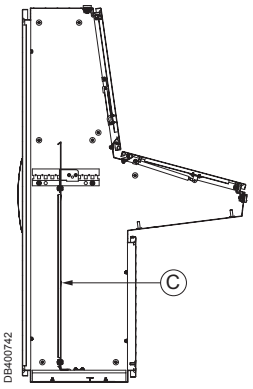
- For repetitive equipment.
- To install equipment fixed by screws, with drill holes made by the customer.
- Addition of rails for clip in equipment.

Telequick mounting plate

- For repetitive equipment.
- For easy installation of equipment fixed by screws, without drilling.
- Addition of rails for clip in equipment.
- Upgradeable solution, during or after manufacturing the equipment.

Mixed mounting plate

- Solution supporting plain and Telequick mounting plates and DIN rails chassis.
- Flexibility of use: allows the installation of screw-on and clip in devices.
- Upgradeable solution, during or after manufacturing the equipment.
- Power cable can be installed at the rear.
- Option of having equipment on the front and rear.

Installation type	Compact control desks				Control desk with console							
												
Control desk width (B) (mm)	Mounting plates											
	Plain		Telequick		Plain		Telequick		Plain		Telequick	
	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference
600	35	**NSYPMP8560**	34	**NSYTMP6760**	–	**–**	–	**–**	–	**–**	–	**-**
800	49	**NSYPMP8580**	48	**NSYTMP6780**	31	**NSYPMP4580**	30	**NSYTMP4280**	49	**NSYPMP8580**	48	**NSYTMP6780**
1000	63	**NSYPMP85100**	61	**NSYTMP67100**	40	**NSYPMP45100**	39	**NSYTMP42100**	63	**NSYPMP85100**	61	**NSYTMP67100**
1200	77	**NSYPMP85120**	75	**NSYTMP67120**	77	**NSYPMP45120**	39	**NSYTMP42120**	77	**NSYPMP85120**	75	**NSYTMP67120**
1600	–	**–**	–	**–**	67	**NSYPMP45160**	–	**–**	105	**NSYPMP85160**	-	**-**

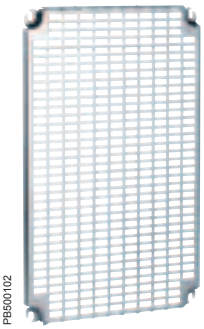
Mounting accessories
Installation accessories

PB501207

Plain mounting plate

- Material: galvanised sheet steel.
- Thickness: 2,5 mm.
- Can be installed on:

– Compact control desks, in the lower part (A).
– Control desks with console:
  – In the upper part (B) (1)
  – In the lower part (C)
  – Across the entire height (D) (1)
  – In the desk (E)

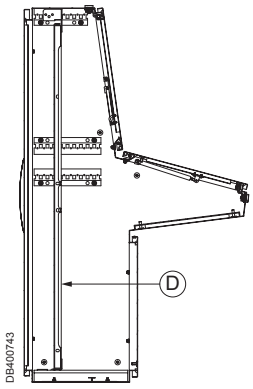
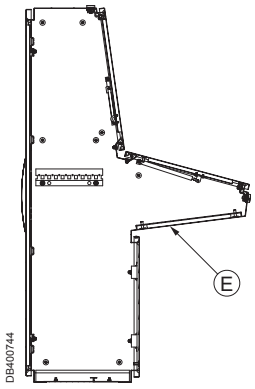

PB500102

Telequick mounting plate

- Material: zinc-coated steel.
- Thickness: 2 mm.
- Can be installed on:

– Compact control desks, in the lower part (A).
– Control desks with console:
  – In the upper part (B) (1)
  – In the lower part (C)
  – Across the entire height (D) (2)

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page **526**).
(2) For this installation, order a set of 2 uprights ref. **NSYTVR14** and set of 4 adjustment rails and 4 fixing brackets.

Installation type	Control desk with console							
	 DB400743				 DB400744			
Control desk width (B) (mm)	Mounting plates							
	Plain		Telequick		Plain		Telequick	
	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference	Surface (dm^2)	Reference
600	–	–	–	–	–	–	–	–
800	90	**NSYMP148**	84	**2 x NSYSTMP6080**	28	**NSYSPMP4080**	–	–
1000	116	**NSYMP1410**	108	**2 x NSYSTMP60100**	36	**NSYSPMP40100**	–	–
1200	142	**NSYMP1412**	132	**2 x NSYSTMP60120**	44	**NSYSPMP40120**	–	–
1600	–	–	–	–	60	**NSYSPMP40160**	–	–

Mounting accessories
Installation accessories

PB501815

Fixing brackets

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desk (all versions).
- Material: 4 mm thick galvanised steel.
- Maximum load: 250 kg.
- To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.

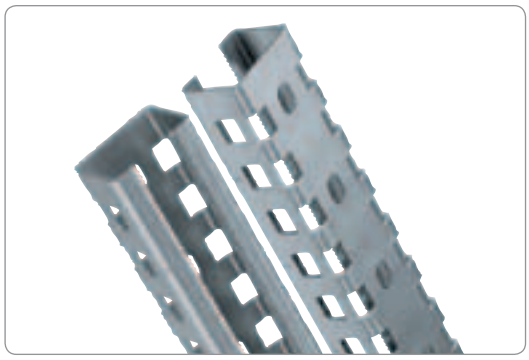
For desk width	Reference
600 -1600	**NSYMPBSD**

PB501815

Adjustment rails and fixing brackets

- Set of 4 rails and 4 fixing brackets.
- To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console.
- For positioning 2 plates (back to back), order fixing brackets ref. **NSYMPBSD**.

For control desks with console. Depth (mm)	Reference
400	**NSYMPB4SD**
600	**NSYMPB6SD**


PB500483

Technical uprights

- Set of 2 equipment uprights.
- Support for fixing Telequick mounting plates and rails.
- Material: Zink coated with a thickness of 20/10 mm.

For control desk height (mm)	Centre-to-centre distance (mm)	Reference
1000	650	**NSYTVR8**
1400	1250	**NSYTVR14**

PB501210

PC screen support

- For a control desk with monobloc console with a depth of 600 mm.
- This support is a galvanised mounting plate, in horizontal position, fixed to the adjustment rails of the console.
- Maximum acceptable load: 50 kg/m².
- Delivered with fixings.

For width (mm)	Reference
800	**NSYPCS8**
1000	**NSYPCS10**
1200	**NSYPCS12**
1600	**NSYPCS16**

Customised offer

Configured

Save time by having your accessories mounted in the factory.
To find out more about our Configured offer, please contact us.

Configured
- Standard dimensions and finishes.
- Machining.
- Standard accessory installation.

PB501195

Specific

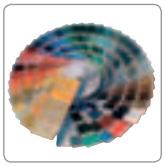
Optimisation of your time: with our customisation services which provide the enclosure in your colours and with your cut-outs.
Please consult us.

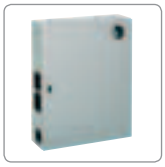
Specific
- Special dimensions.
- Finishes.
- Cut-cuts.
- Accessory installation.

PB501781

Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints

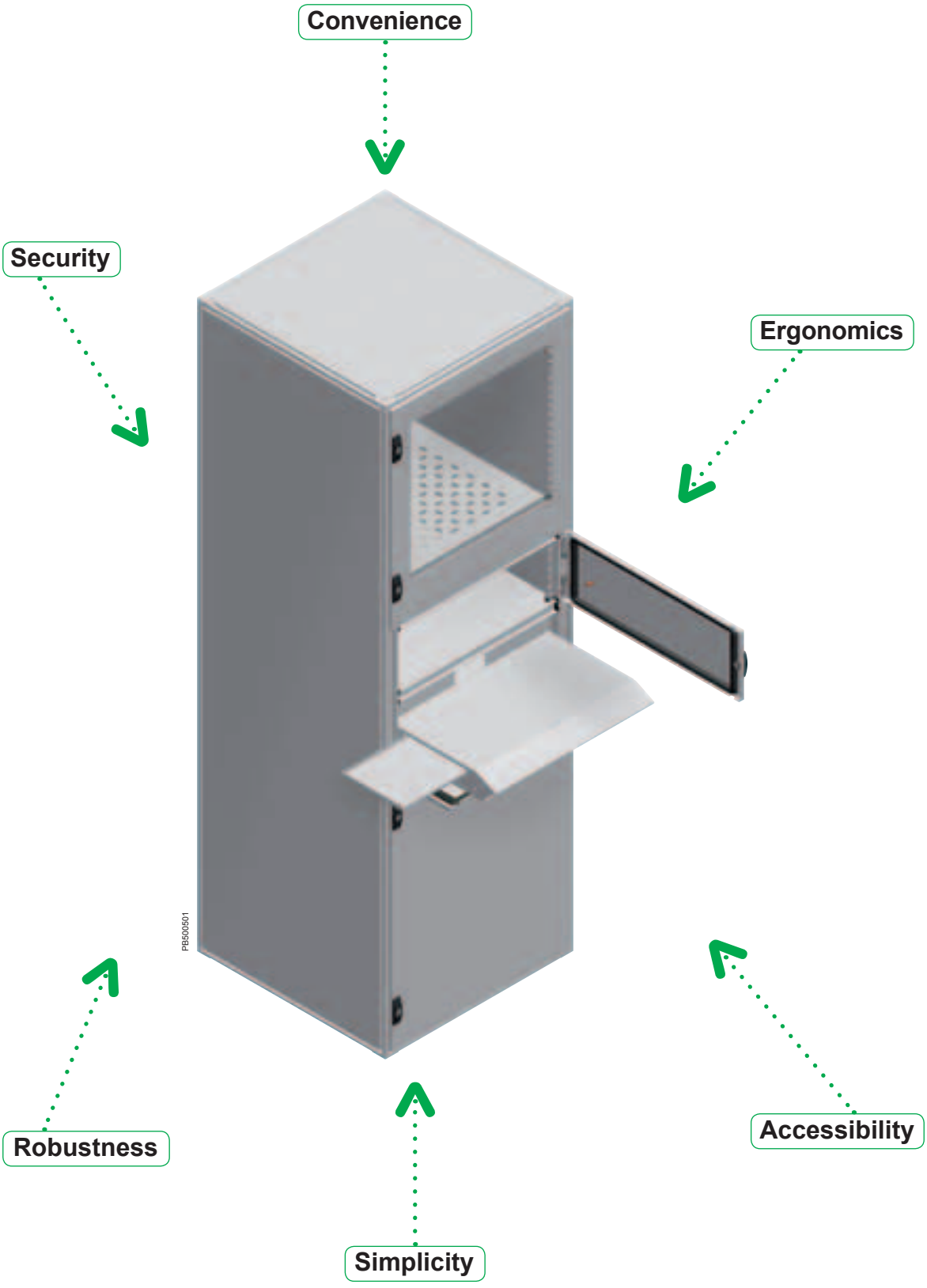

PB500359
Holes & Cutouts

PB501690
Mounting

PB501691
Construction changes

PB501692
Accessories

Steel suitable PC racks



Steel suitable PC racks

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.

PB500664

Security:

The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

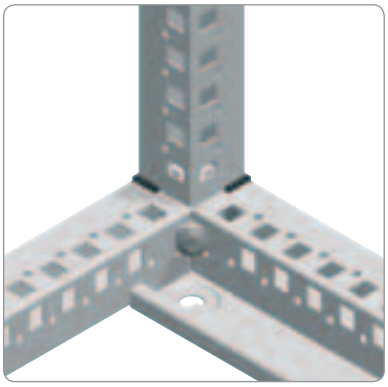
Convenience:

Anti-glare glazed door designed for viewing until 25,5" screens.
Cable entry made easier by a cable-land plate in 2 pieces.

PB500665

Ergonomics:

Access to the various functions and working heights, guaranteeing optimum comfort.
Partial doors delimit the access to each function with a 3 mm double-bar lock.
Built-in screen and CPU support.
Built-in keyboard and mouse support.

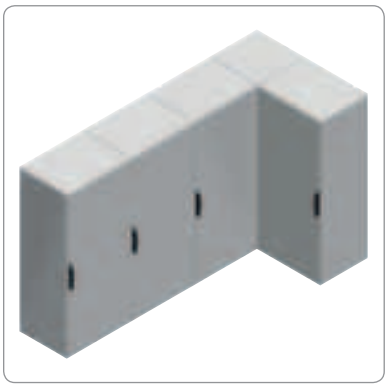

PB500490

Accessibility:

The Spacial SF PC rack offers full accessibility from all sides of the enclosure.

Robustness:

Spacial SF structure formed from a single 1.5 mm galvanised-steel section, with a high moment of inertia.
Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel.
Panels built into the structure.


PB500495

Simplicity:

The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

Specific

Customised enclosure production, contact us.

Steel suitable PC racks

PB500208

PB500501

PB500666

Detail of 3 mm DB lock on partial door.

PB500667

Detail of 5 mm DB lock on rear door.

Introduction

Enclosure designed to protect and control computer equipment in an industrial environments.
- Available in two heights: 1600 and 1800 mm.

Technical characteristics

- Structure: top and bottom frame and vertical uprights.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.
- Protection degree: IP 55, or IP 40 with hinged keyboard.
- Resistance to external mechanical impacts: IK 10.

Composition

- Models:
– Partial door for PC screen, with Securit® anti-glare glass.
– Plain partial door for CPU (enclosures with height of 1800 mm).
– Hinged plain door for keyboard.
– Plain partial door for optional installation of A4 printer support.
- Partial front doors opening to the right.
- Plain rear door, reversible opening direction (right or left).
- Locking system with flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5 mm double-bar insert for the plain rear door, and small flat escutcheon with 3 mm double-bar insert for the partial front doors.
- Roof and side panels fixed from the inside.
- Cable-gland plate with 1 entry.

Ergonomics

- Partial front doors delimit the access to each function.
- Glued anti-glare window.
- Access to the various functions and working heights, guaranteeing optimum comfort during use.

Monitor-screen compartment

- The anti-glare glazed door is designed for viewing screens:
– Maximum 25,5".
- The monitor tray can withstand a maximum weight of 150 kg, evenly distributed.

CPU / keyboard compartment

- The CPU is placed on a fixed tray.
- Telescopic keyboard support with a built-in mouse support.

Optional accessories

- Plinths with heights of 100 and 200 mm, **see page 532**.
- Other locks for partial doors, **see page 532**.
- Tray installed on a telescopic rail, **see page 533**.
- Possibility to install a printer support in the lower part of the enclosure, **see page 533**.

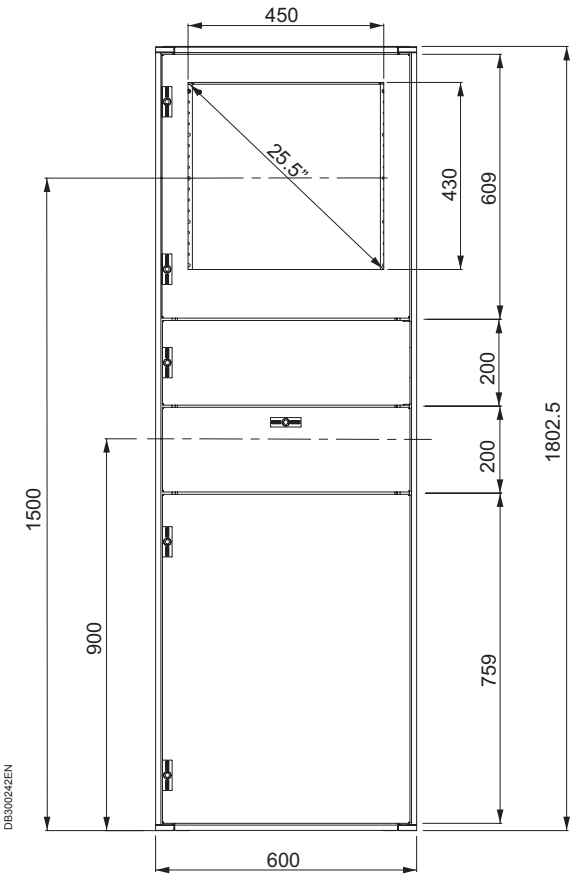
Certifications

- UL*, CUL.
*1, 12, 12 K.

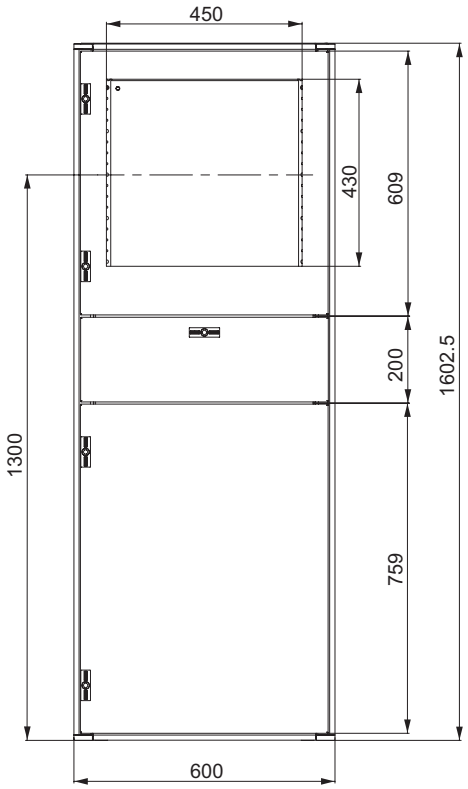
Spacial SF PC rack dimensions (mm)			No. of compartments	Reference
Height (A)	Width (B)	Depth (C)		
1600	600	600	3	**NSYSF16660PC**
		800	3	**NSYSF16680PC**
1800		600	4	**NSYSF18660PC**
		800	4	**NSYSF18680PC**

Steel suitable PC racks

Dimensions



PC rack with a height of 1800 mm.



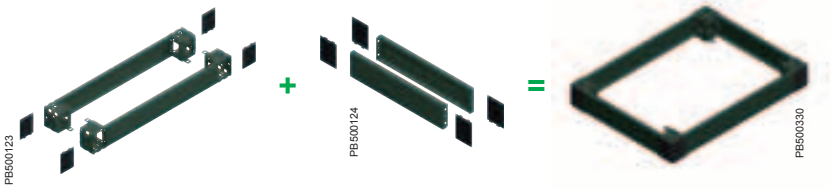
PC rack with a height of 1600 mm.

Steel suitable PC racks
Composition accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.

Front and rear kit + **Side panels** = **Complete plinth**



- See Spacial SF composition accessories: floor, page **129**.
- Model heights: 100 and 200 mm.

Front plinth

Supply:
– **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
– **Height 200 mm:** four corners, four panels with a height of 100 mm (two front and two rear), four corner covers and fixing elements.

Plinth side panels

Supply:
– **Height 100 mm:** two side panels, four corner covers and fixing elements.
– **Height 200 mm:** four side panels with a height of 100 mm (two for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200
600	800			NSYSPS8100	NSYSPS8200

Locks for partial doors

- Locks to replace the 3 mm double-bar lock supplied with the partial doors.
- Models:
– Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm.
– Lock with 2233X key for partial doors.
– Lock with 2233X key, exclusive for hinged keyboard door.

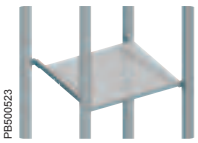
Supply:
– Lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer.
– Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.
– Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.

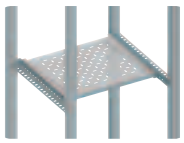
Description	Reference
One lock with 6.5 mm triangular insert for partial and hinged door	NSYMLT6
One lock with 6 mm square insert for partial and hinged door	NSYMLS6
One lock with 2233X key for partial door	NSYML23
One lock with 2233X key for hinged keyboard door	NSYMLCD23

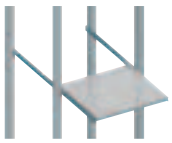
Steel suitable PC racks
Composition accessories

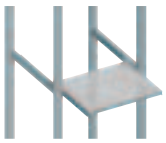
Trays

- Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails.
- Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed.
- See more details and other options on Mounting: Equipment support accessories, page **361**.


PB500523


PB500668


PB500669


PB500670

Installation type		Fixed Trays				Telescopic Trays					
		On structure	On cross rails			On structure		On cross rails			
PC rack dimensions (mm)		Tray	Tray	Universal cross rail	Quick cross rail	Tray	Telescopic rails	Tray	Telescopic rails	Universal cross rail	Quick cross rail
Width	Depth			40 mm (1 row)	40 mm (1 row)					40 mm (1 row)	40 mm (1 row)
600	600	**NSYFXT6060**	**NSYFXT6060**	**NSYSUCR4060**	**NSYSQCR4060**	**NSYFXT6060**	**NSYTTG60**	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4060**	**NSYSQCR4060**
600	800	-	**NSYFXT6060**	**NSYSUCR4080**	**NSYSQCR4080**	-	-	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4080**	**NSYSQCR4080**

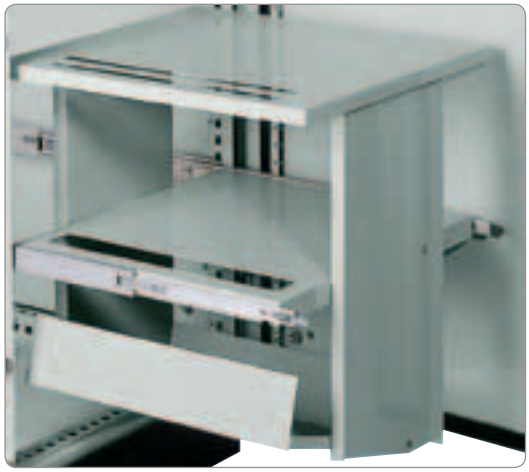
PB500672

Handle for telescopic trays

- Handle designed for easy extraction of the sliding trays.
- Material: polyamide 6 (black).

Supply: two units and fixing elements.

Reference
NSY1TH


PB500673

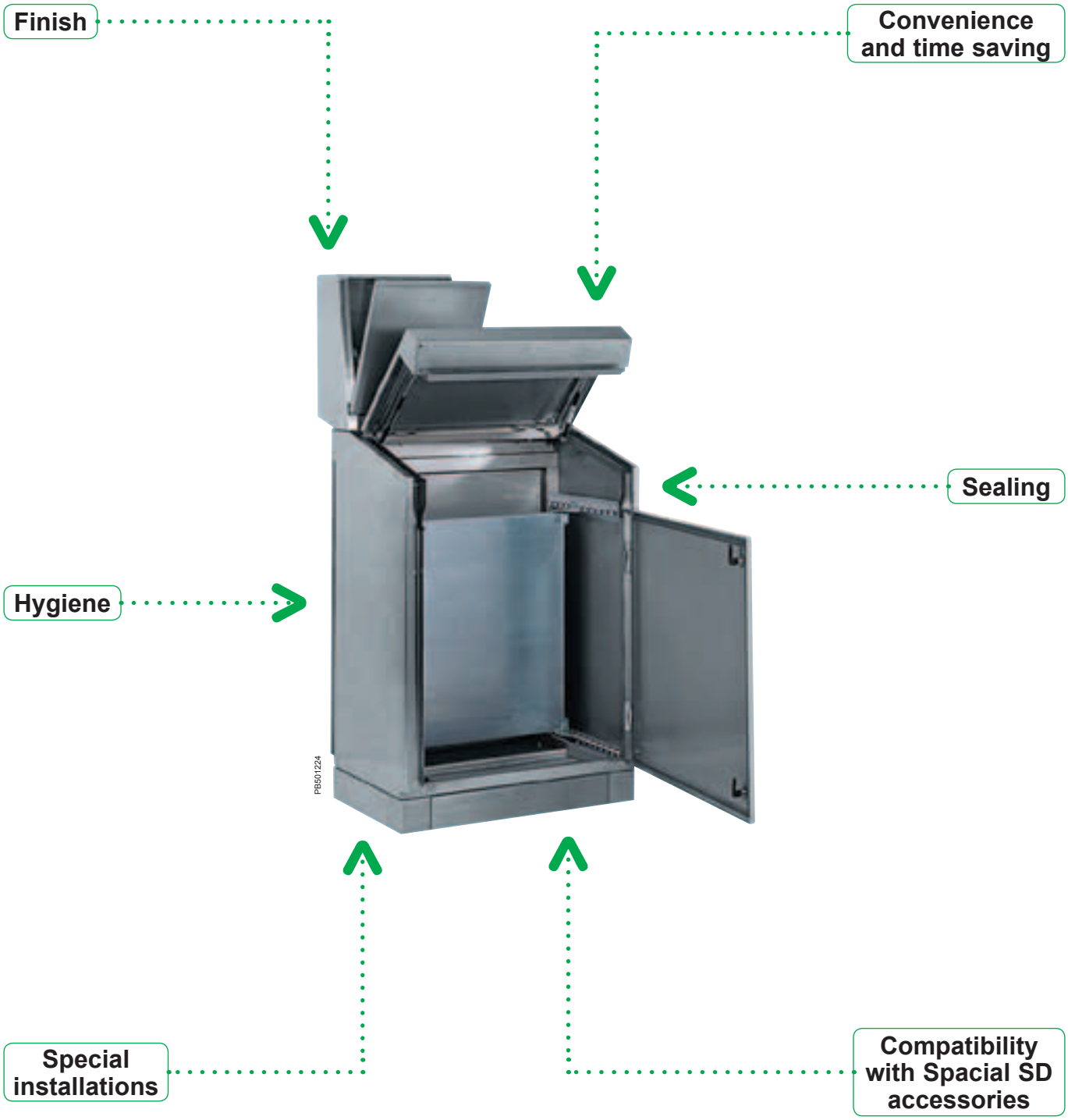
Printer support

- Support for placing an A4 printer, with area reserved for paper.
- Fixed directly to the structure of the enclosure, with a depth of 600 mm. For a depth of 800 mm, it can be installed with 40 mm (1 row) universal or quick-fixing cross rails, see page **359**.
- Material: steel painted RAL 7035 grey.

Supply: one printer support and fixing elements.

Reference
NSYPSA4

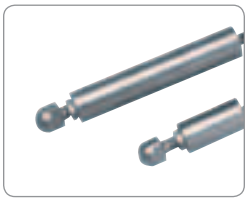
Stainless-steel control desks



Stainless-steel control desks

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.


PB500220

Sealing:

- Protection rating of IP 55:
  – complete protection against dust and water sprays.
- Door and body gaskets made from polyurethane.
- Single-piece cable-gland plate with polyurethane gasket.
- Removable plates for concealing the free space left by the console.

PB501267

Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

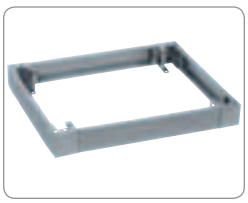
Finishes:

304L stainless steel with Scotch-Brite® brushed finish as standard.
Micro-beaded 316L (on request).

PB501232

Compatibility with the other ranges:

- Stainless-steel accessories:
  – plinths, locks.
- Accessories of the steel control desks offer:
  – mounting plate, pneumatic opening stay, etc.

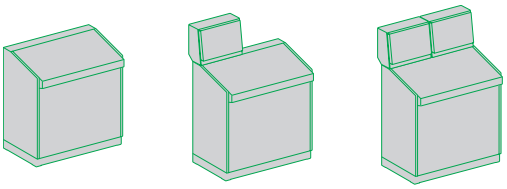

PB501268

Convenient:

The association of a monobloc control desk with one or more consoles enables all combinations.
Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars.
The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover.
Equipped with adjustment rails for adjusting the depth of the mounting plate.
Removable rear panel.

PB501269

Examples of associations of consoles and control desks:


DB300593

Multiple combinations available, see page **XXX**.

Stainless-steel control desks
Introduction

PB501267

Spacial SDX Compact control desk with rear panel

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector.

Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

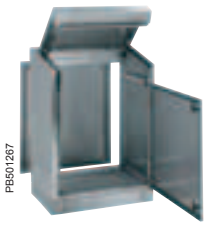
- Removable rear panel, It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.
- With a height of 1000 mm and a depth of 500 mm, this range is available in 4 widths (600, 800, 1000 and 1200 mm).

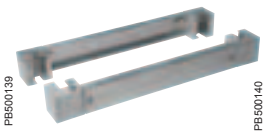
Technical characteristics

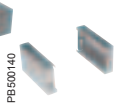
- 304L stainless-steel sheet, thickness 1.5 mm.
- Scotch-Brite® brushed finish.
- Protection degree: IP 55 according to IEC 60529.
- Resistance to external mechanical impacts: IK 10 according to IEC 62262.
- Easy removable and reversible door, opening to 120°. Locking by 3-mm double-bar lock (chrome-plated zamak).
- Hinges made entirely from stainless steel.
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick fixing of cables and trunkings.
- Top cable-entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Plain cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing bolt for equipotential connection between the door and the body.

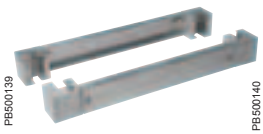
Dedicated accessories

- Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page **538**.
- It can also be equipped with a mounting plate (2).


PB501267


PB500139


PB500140


PB500139

PB500140

PB501207

Dimensions (mm)			Reference	Number of front doors	316L stainless-steel plinth, height 100 mm (1)		316L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1000	600	500	**NSYSDX6**	1	**NSYSPXF6100H**	**NSYSPXS5100H**	**NSYSPXF6200H**	2 x **NSYSPXS5100H**	**NSYPMP8560**
1000	800	500	**NSYSDX8**	1	**NSYSPXF8100H**	**NSYSPXS5100H**	**NSYSPXF8200H**	2 x **NSYSPXS5100H**	**NSYPMP8580**
1000	1000	500	**NSYSDX10**	2	**NSYSPXF10100H**	**NSYSPXS5100H**	**NSYSPXF10200H**	2 x **NSYSPXS5100H**	**NSYPMP85100**
1000	1200	500	**NSYSDX12**	2	**NSYSPXF12100H**	**NSYSPXS5100H**	**NSYSPXF12200H**	2 x **NSYSPXS5100H**	**NSYPMP85120**

(1) See section on stainless-steel composition accessories.
(2) See other mounting plates in common accessories.

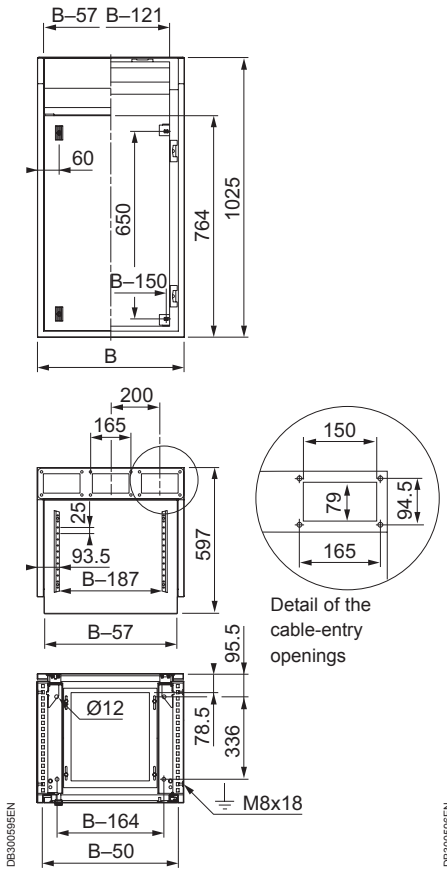
Stainless-steel control desks
Dimensions

Spacial SDX Compact control desk with rear panel

Cable-gland plate clearance dimensions (mm)	
Width	**Depth**
B–280	370

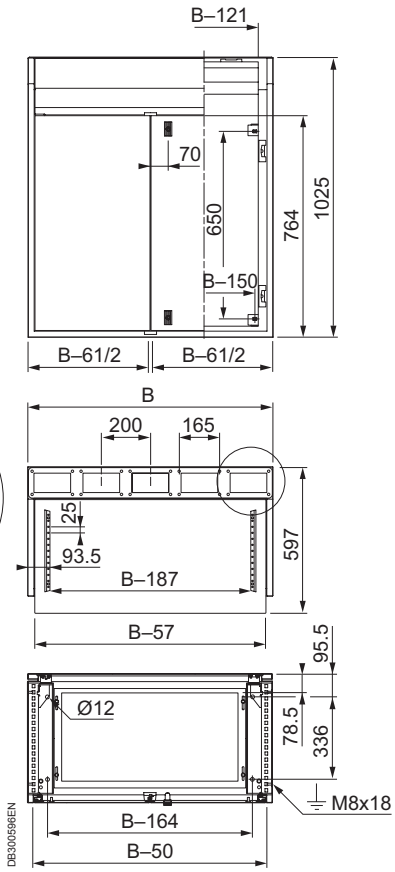
Adjustment of mounting-plate depth (mm)		
Dimensions	**Min.**	**Max.**
a	45	395
b	126	476

1 door

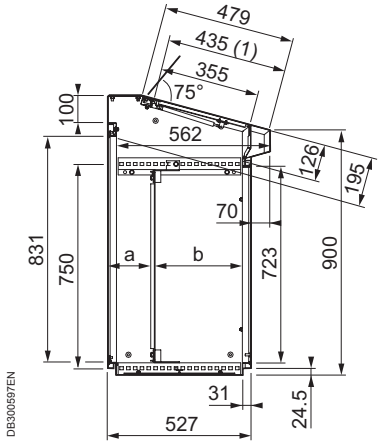


Detail of the cable-entry openings

2 doors



(1) Useful clearance



Common side view

Stainless-steel modular consoles
Introduction

PB501226

Stainless-steel modular consoles for Compact control desk with rear panel

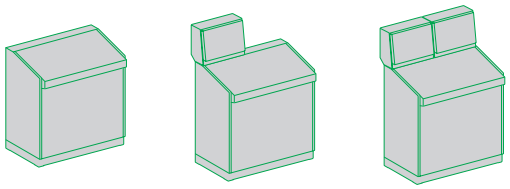
- Two widths: 400 and 600 mm.
- Two depths: 200 and 300 mm.

Technical characteristics

- 304L stainless-steel sheet, thickness 1.5 mm.
- Scotch-Brite® brushed finish.
- Protection degree: IP 55.
- Resistance to external mechanical impacts: IK 10.
- Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°.
- Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page **523**).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.

Dedicated accessories

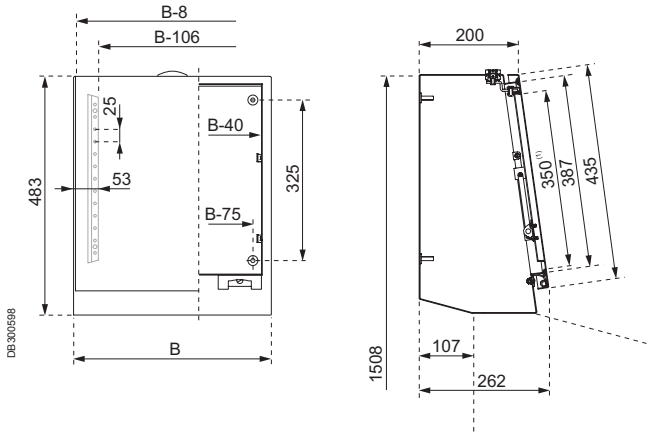
- The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
- Optional galvanised mounting plate.


DB300593

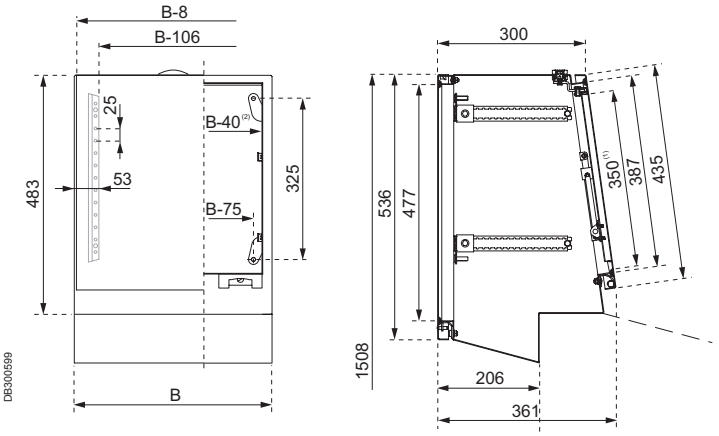
Multiple combinations, see page **540**.

Modular Console dimensions (mm)			Nº cable entry cut-outs	Reference
Height	Width (B)	Depth		
483	400	200	2	**NSYSDCX42**
483	400	300	2	**NSYSDCX43**
483	600	200	3	**NSYSDCX62**
483	600	300	3	**NSYSDCX63**

Modular console, depth: 200 mm



Modular console, depth: 300 mm



(1) Useful clearance.
(2) Same dimensions for the rear panel.

Modular consoles
Accessories

PB501270

Blanking covers

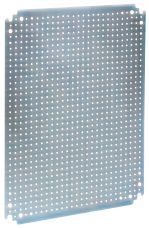
- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk (see the combination examples below). In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Length: 200 mm.
- 304L stainless-steel, thickness 1.5 mm.
- Fixing by screws.

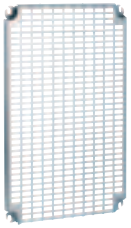
Width (mm)	Reference
200	**NSYRPX2**

Mounting plates for modular consoles

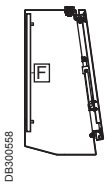
- Steel mounting plates can be installed at the back of modular consoles (F).
- See more information about the mounting plates pages **324 to 332**.

PB500072


PB500101

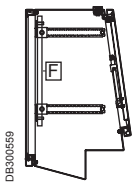

PB500102

Modular Console width (mm)	Fixing centre-to-centre distance (mm)		Plain mounting plate	Microperforated mounting plate	Telequick mounting plate
	Height	Width			
400	325	325	**NSYMM44**	**NSYMF44**	**NSYMR44**
600	325	625	**NSYMM64**	**NSYMF64**	**NSYMR64**



DB300558

Example installation of a mounting plate in a console depth 200 mm.

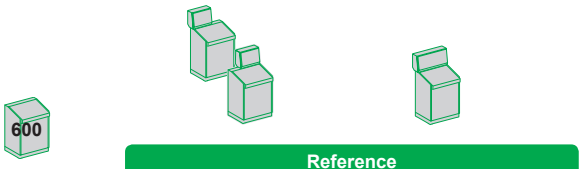


DB300559

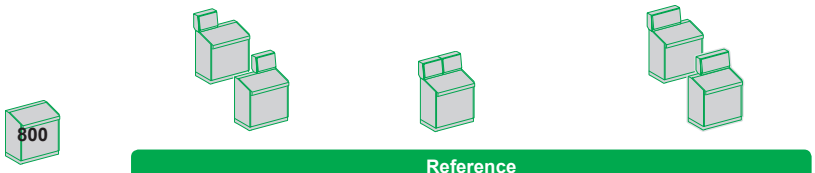
Example installation of a mounting plate in a console depth 300 mm.

Modular consoles
Combinations

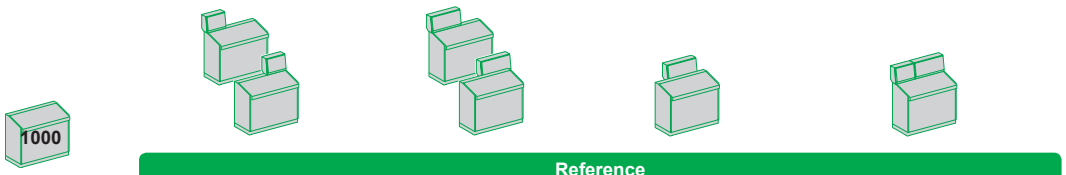
Combination examples of modular consoles installation



	Reference	
Compact control desk	NSYSDX6	NSYSDX6
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63
Blanking cover	NSYRPX2	–



	Reference		
Compact control desk	NSYSDX8	NSYSDX8	NSYSDX8
Modular console	NSYSDCX42/ NSYSDCX43	2 x NSYSDCX42/ 2 x NSYSDCX43	NSYSDCX62/ NSYSDCX63
Blanking cover	2 x NSYRPX2	–	NSYRPX2



	Reference			
Compact control desk	NSYSDX10	NSYSDX10	NSYSDX10	NSYSDX10
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63	NSYSDCX62/ NSYSDCX63	NSYSDCX42 + NSYSDCX62/ NSYSDCX43 + NSYSDCX63
Blanking cover	3 x NSYRPX2	2 x NSYRPX2	2 x NSYRPX2	–

	Reference				
Compact control desk	NSYSDX12	NSYSDX12	NSYSDX12	NSYSDX12	NSYSDX12
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63	NSYSDCX62/ NSYSDCX63	2 x NSYSDCX62/ 2 x NSYSDCX63	NSYSDCX42 + NSYSDCX62/ NSYSDCX43 + NSYSDCX63
Blanking cover	4 x NSYRPX2	3 x NSYRPX2	3 x NSYRPX2	–	NSYRPX2

DB300562

Composition accessories
Door accessories

PB501213

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- Delivered with the fixings.

Nominal load per stay (N)	Stay reference
244	**NSYPLS24**
300	**NSYPLS30**

- The stays are delivered as standard with the control desks, according to the following table:

Max. load on lid (kg)	Control desk reference	Standard supply stay
13	**NSYSDX6**	**NSYPLS24**
13	**NSYSDX8**	**NSYPLS24**
17	**NSYSDX10**	**NSYPLS30**
15	**NSYSDX12**	**NSYPLS30**

Customised offer

Configured

Configured
- Standard dimensions and finishes.
- Machining.
- Standard accessory installation.

PB501224

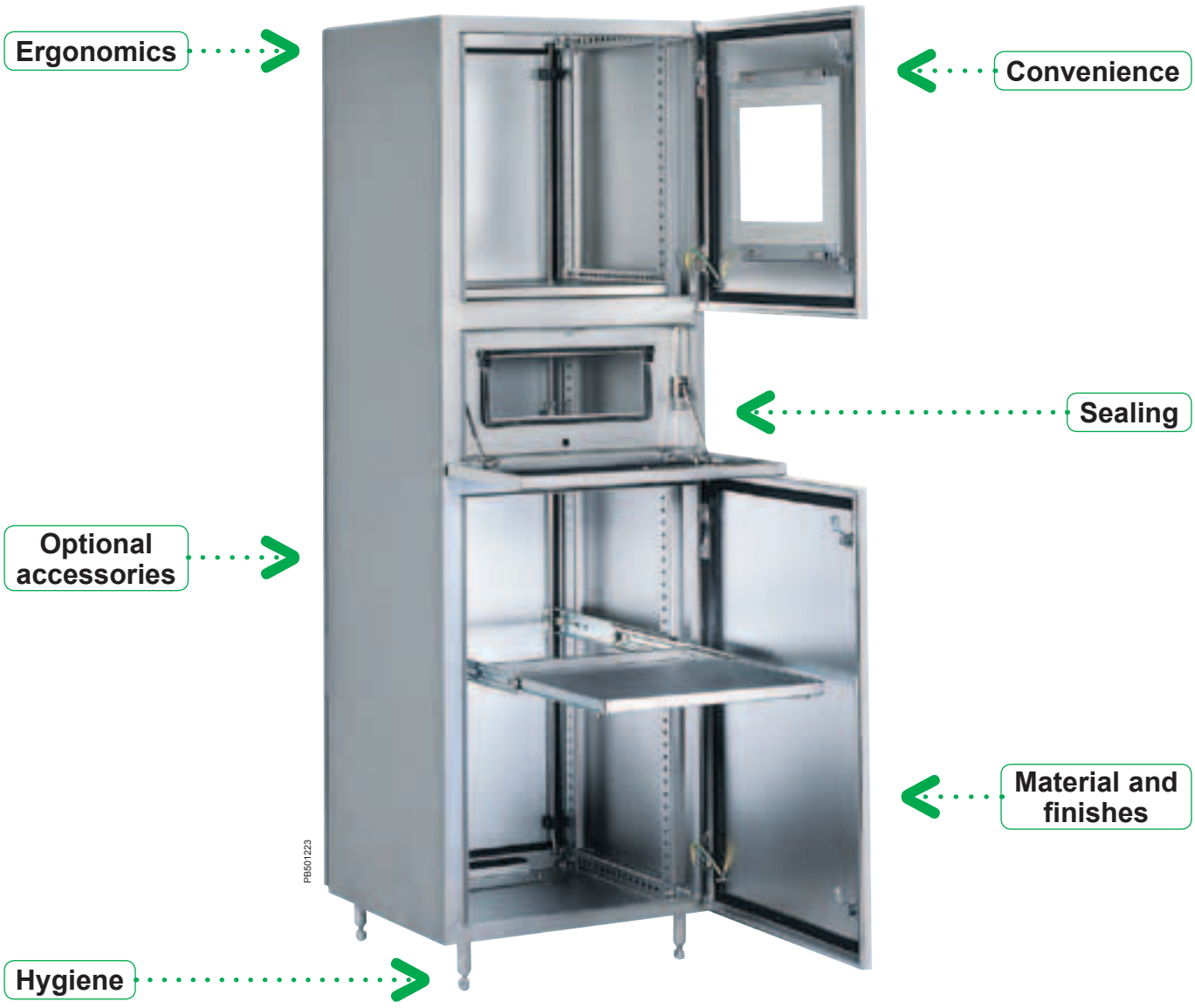
Specific

Specific
- Special dimensions.
- Finishes.
- Cut-cuts.
- Accessory installation.

PB501198

PB501236

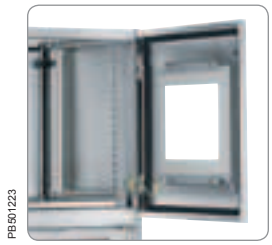
Stainless-steel monobloc PC racks



Stainless-steel monobloc PC racks

Convenience:

Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
Cable entry made easier by a cable-gland plate (at the rear) in 2 pieces.

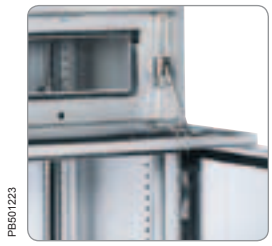

PB501223

Sealing:

IP 55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.

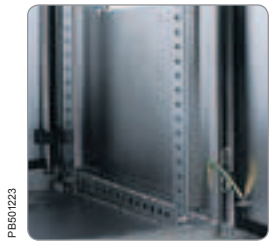
Resistance to mechanical impacts:

Resistance to external mechanical impacts: IK 10.


PB501223

Optional accessories:

Shelf mounted on telescopic rails.


PB501223

Ergonomic:

Partial doors delimit the access to each function with a 3-mm double-bar lock.
Access to the various functions and working heights, guaranteeing optimum comfort.
Built-in screen and CPU support.
Built-in mouse support.

PB501266

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.

PB501223

Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

PB501233

Material and finishes:

Micro-beaded 304L as standard.
Micro-beaded 316L on request.

Stainless-steel monobloc PC racks
Introduction

PB501228

PB501266

Specific

Optimisation of your time: with our customisation services which provide the enclosure in your colours and with your cut-outs.
Please consult us.

Technical characteristics

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

- Monobloc structure in 304L stainless-steel sheet, micro-beaded finish.
- Can be made in 316L stainless steel on request.
- Protection rating: IP 55, even with the keyboard drawer open.
- High resistance to mechanical impacts: IK 10 according to standard IEC 62262.

Composition

- Top and bottom partial doors on the front side.
- Pivoting panel for the keyboard.
- Plain rear door.

Ergonomics

- Partial front doors delimit the access to each function with a 3 mm double-bar lock (other inserts or key locks available).
- Glued anti-glare window.
- Access to the various functions and working heights, guaranteeing optimum comfort during use.

Monitor-screen compartment

- The anti-glare glazed door is designed for viewing screens:
– 14" as standard,
– 17" by removing a part of the silkscreen printing.
- The height of the monitor support can be adjusted.
- The monitor shelf can withstand a maximum weight of 50 kg.

CPU / keyboard compartment

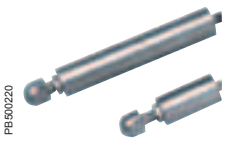
- The keyboard fixed to the inside becomes operational by tilting the central panel.
- The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter.

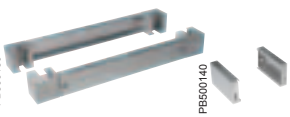
Optional accessories

- Shelf installed on a sliding rail, with adjustable height.
- Plinths with heights of 100 and 200 mm.
- Telescopic tray: **NSYTTG60**.

304L stainless-steel PC racks

PB501228


PB500220


PB500139 PB500140

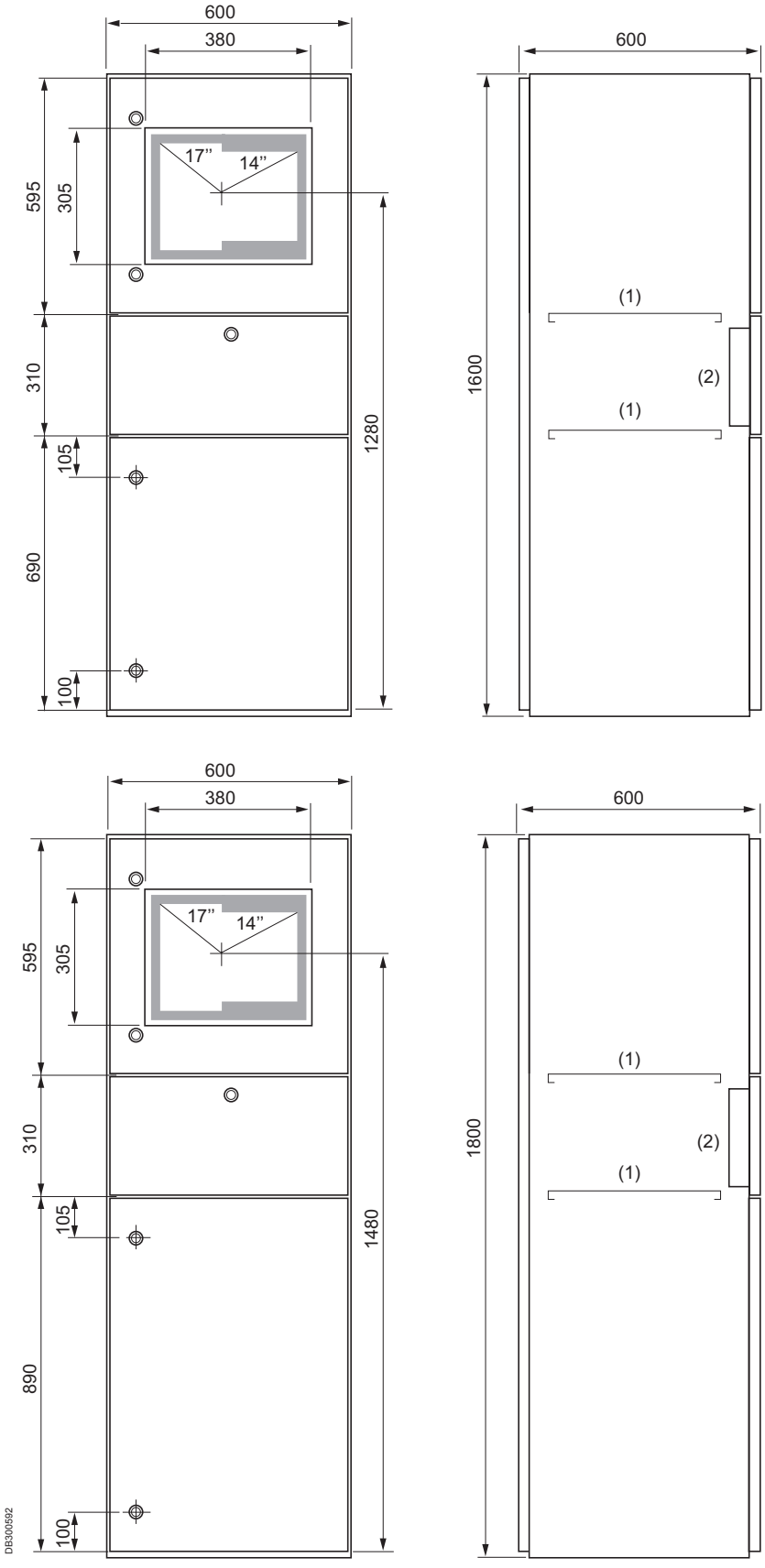
PB500139 PB500140

External dimensions (mm)			Stainless-steel PC rack reference	Hygienic feet		Brushed 316L stainless-steel plinth height 100 mm (1)		Brushed 316L stainless-steel plinth height 200 mm (1)	
Height	Width	Depth		Height 100 (mm)	Height 200 (mm)	Front + corner	Side	Front + corner	Side
1600	600	600	**NSYSMX16660PC**	**NSYPHX100**	**NSYPHX200**	**NSYSPXF6100H**	**NSYSPXS6100H**	**NSYSPXF6200H**	2 x **NSYSPXS6100H**
1800	600	600	**NSYSMX18660PC**	**NSYPHX100**	**NSYPHX200**	**NSYSPXF6100H**	**NSYSPXS6100H**	**NSYSPXF6200H**	2 x **NSYSPXS6100H**

(1) See section on stainless-steel composition accessories.

Stainless-steel monobloc PC racks

Dimensions

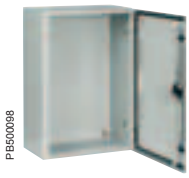


(1) Screwed shelf, adjustable height.
(2) Sealed case for keyboard.

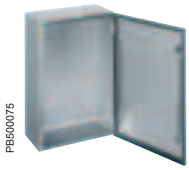
ATEX

PB500148

ATEX
Contents


PB500098

Spacial S3DEX 550


PB500075

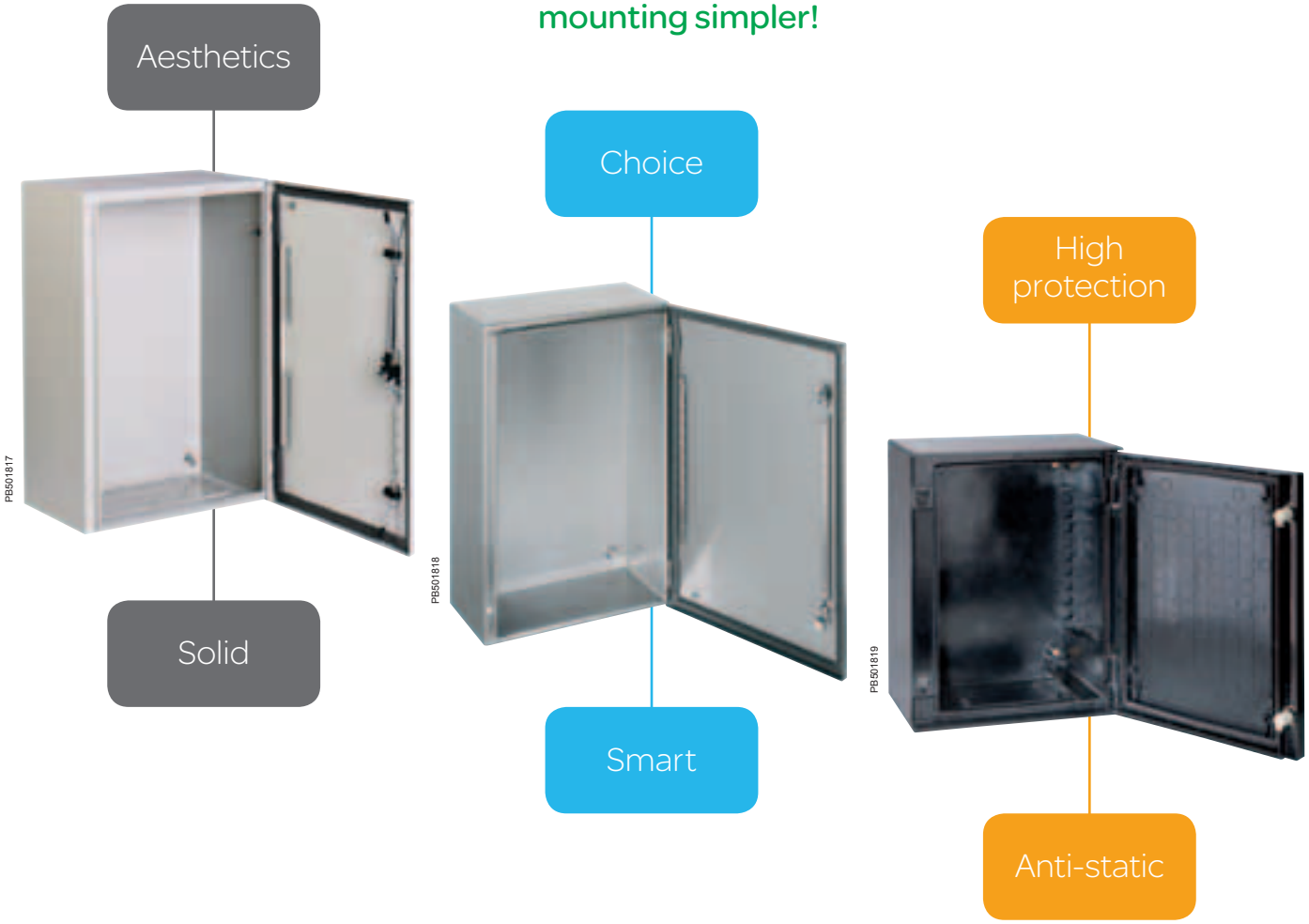
Spacial S3XEX 554

PB500148

Thalassa PLMEX 558

Enclosures for explosive atmospheres

Practical: Our enclosures share the same sizes and most of the mounting, cabling and installation accessories, to make selection and mounting simpler!



In accordance with the ATEX directive

- The enclosures bear the marking:
  Ex II 2 GD Ex e II Ex tD A21 IP 66 according to directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.
- The enclosures offer a degree of protection of IP 66 according to EN 60629, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Safety of all applications in ATEX II2 or II3 areas —surface installations with occasional or rare risks— thanks to ATEX-certified steel, stainless-steel and polyester enclosures.

Three materials to suit all your applications

Download our ATEX certificates from the web.

PB501817

Industrial environments, equipment rooms

Spacial S3DEX steel enclosure:

- The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U and supplementary certificates 01 and 03 (component certification).
- Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: –25 °C ≤ Ta ≤ +40 °C.
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.

PB501818

Laboratories, agri-business industry, specific hygiene and corrosion demands

Spacial S3XEX stainless-steel enclosure:

- The **Spacial S3XEX stainless-steel enclosure** is certified by the LOM with no. LOM 09ATEX3068U (component certification).
- Seven sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: –25 °C ≤ Ta ≤ +60 °C.
- Resistance to external mechanical impacts: IK 10.
- Scotch-Brite® brushed finish.

PB501819

Seaside, petrochemical, severely corrosive environments

Thalassa PLMEX polyester enclosure:

- The **Thalassa PLMEX polyester enclosure** is certified by the LOM with no. LOM 10ATEX3051U (component certification).
- Seven sizes: from 307 x 255 x 164 mm to 1056 x 852 x 350 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: –25 °C ≤ Ta ≤ +60 °C.
- Resistance to external mechanical impacts: IK 10.
- Black colour.

The Spacial S3DEX steel enclosure according to the ATEX directive

Aesthetics
New RAL 7035

Choice
With 10 sizes

Easy
Easily reversible door

Solid
Resistance to external mechanical impacts IK 10

Smart
1 operating point for 3 locking points from H600

The Spacial S3DEX steel enclosure according to the ATEX directive

Aesthetics

- Sheet-steel enclosure.
- Structured finish, RAL 7035 grey colour.
- Single-piece body with a cross-shaped structure.

Solid

- Resistance to external mechanical impacts: IK 10.
- Protection degree: IP 66. Polyurethane gasket.
- Front rail of the body with double fold, gutter-shaped.

Choice

- Solid door: 10 references.

Smart

- 3-mm double-bar lock as standard.
- For heights exceeding 600 mm, three closure points with single operating point.

Easy

- The door can be removed and turned over to open towards the left.

Practical

- Large variety of common accessories with the Spacial wall-mounting enclosure range.

– Plain mounting plate.
– Silkscreened mounting plate.
– Microperforated mounting plate.
– Telequick mounting plate.
– DIN rail chassis.

- Reusable packaging.

PB500411

Blind nut for external earth connection.

PB500407

Earthing studs welded to the door and inside the body.

PB500412

The chassis is mounted on four 10-mm shouldered backstuds.

PB500413

The 4 fixing holes are blocked by 4 crimped blind nuts.

PB500204

Example of specific ATEX marking.

Delivered in reusable cardboard with assembly instructions enclosed and wall installation template on the cardboard.

DB300073

Introduction

PB500302

PB500096

Download our ATEX certificates and product sheets over the internet.

Technical characteristics

The Spacial S3DEX range of steel enclosures is certified by LCIE with no. LCIE 02ATEX0037U and codicil no. LCIE 02ATEX0037U/01 & /03 (component certificate).

The enclosures have the following marks:
Ⓔx II 2 GD Ex e II tD A21 IP6X according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.

Technical description

- Tightness by protection rating: IP 66 (enclosures with single door)
- Resistance to external impacts: IK 10.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.

Compared with the universal Spacial wall-mounting enclosure, the Spacial S3DEX enclosure has:
- The four fixing holes blocked by four crimped blind nuts.
- One crimped M8 blind nut for an external earth connection (braid not supplied).

Enclosure body

- 4 M8 x 25 shouldered backstuds for mounting the mounting plate and the step slides leaving a space of 10 mm behind them.
- Cable-gland plate with grid pattern to facilitate drilling and provide the maximum access surface.
- Welded earthing stud for equipotential connection between the door and the body.

Door

- Standard enclosure supplied with a double-bar lock.
- Polyurethane sealing gasket.
- Equipotential connection between the door and the body by means of the M6 x 16 earthing screws.
- Removable and reversible door, opening to 120°.
- Simple reversal of linkage.
- Maximum load: 50 kg/m².
- Perforated rails on the door: 2 vertical rails from H = 400 mm, 2 vertical rails and 2 horizontal rails from W = 800 mm.

Ambient temperature limits:
–25 °C ≤ Ta ≤ +40 °C.

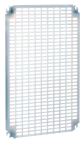
Delivered in an impact-resistant, eco-friendly packaging.

PB500096

PB500072

PB500100

PB500101


PB500102

PB500104

PB500414

PB500022

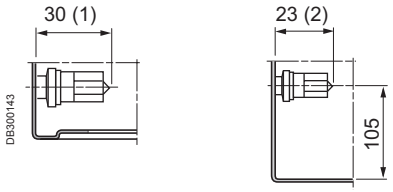
Enclosure dimensions (mm)			Enclosure reference	Mounting plates				Mixed symmetrical chassis	Bars slides	Wall-fixing lugs	
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick			Steel	Stainless steel
300	200	150	NSYS3DEX3215	NSYMM32	-	-	NSYMR32	-	-	NSYAEFPFSC	NSYAEFPFXSC
300	300	200	NSYS3DEX3320	NSYMM33	-	NSYMF33	NSYMR33	NSYMD33	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
400	300	200	NSYS3DEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
400	400	200	NSYS3DEX4420	NSYMM44	NSYMS44	NSYMF44	-	-	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
500	400	200	NSYS3DEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
600	400	250	NSYS3DEX6425	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMD64	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
600	600	250	NSYS3DEX6625	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYMD66	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
700	500	250	NSYS3DEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
800	600	300	NSYS3DEX8630	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR300	NSYAEFPFSC	NSYAEFPFXSC
1000	800	300	NSYS3DEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300	NSYAEFPFSC	NSYAEFPFXSC

The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

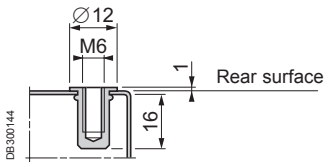
Dimensions

A: Height
B: Width
C: Depth

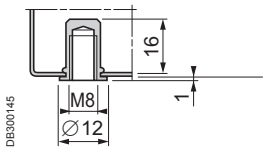
(1) 4 M8 x 25 mm backstuds.
(2) 2 M6 x 17.5 mm earthing studs.
(3) Stud centre-to-centre distance.
(4) Crimped blind nut centre-to-centre distance.
(5) Blind nut for external earth.



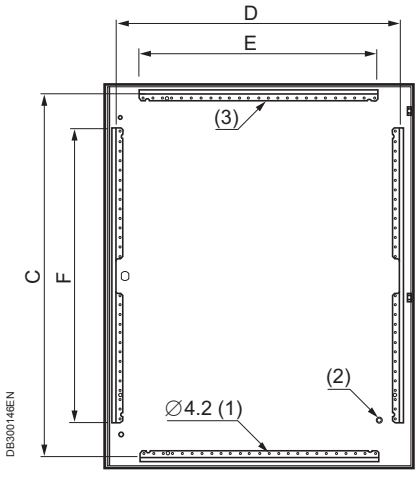
Detail (1) **Detail (2)**



Detail (4)
4 crimped blind nuts for direct fixing of the fixing lugs

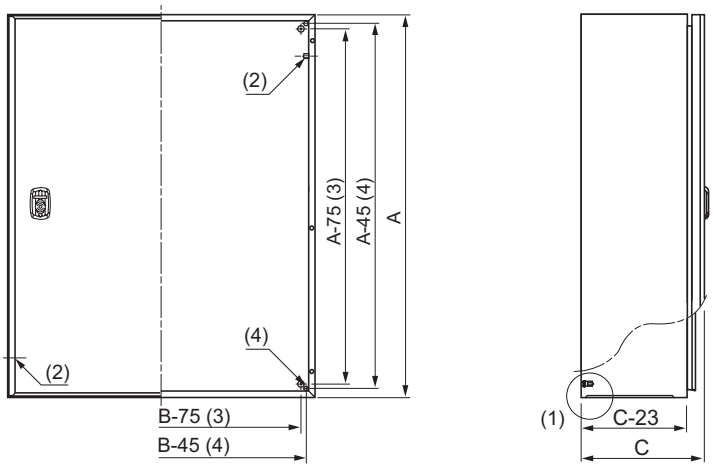


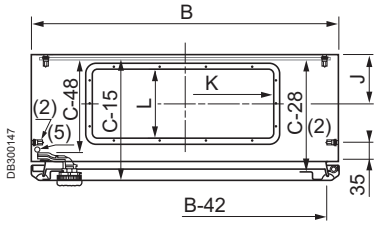
Detail (5)
1 crimped blind nut for the external earth



(1) Perforations with a pitch of 25 mm.
(2) 1 M6 x 17.5 mm earthing stud.

1-door enclosure





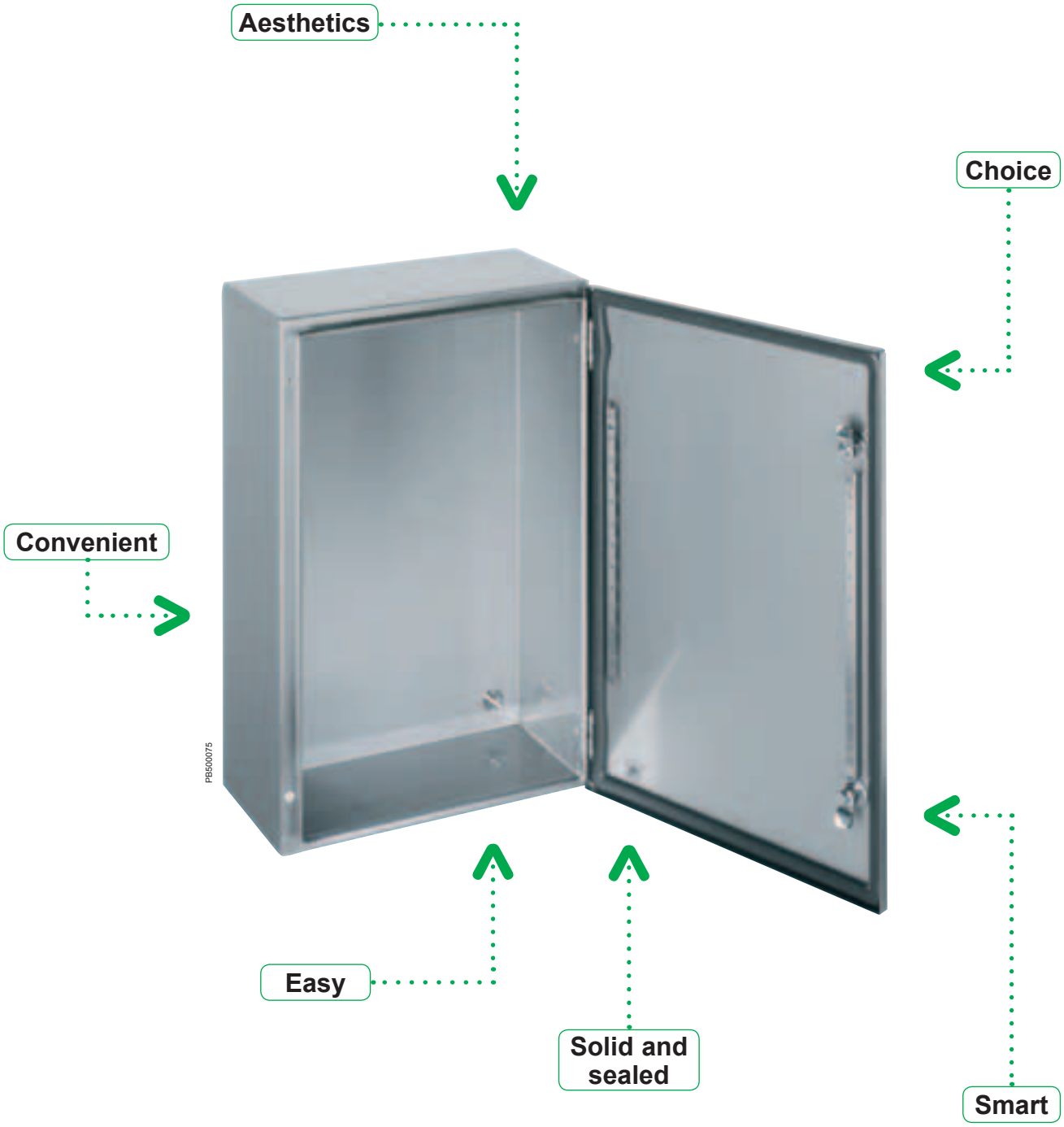
Enclosure (mm)		Cable-gland plate				
Width	Depth	Dimensions (mm)	No	J	K	L
200	150	140 x 80	1	57	115	55
300	200	245 x 130	1	80	220	105
400	200-250	345 x 130	1	80	320	105
500	250	445 x 130	1	80	420	105
600	250	545 x 130	1	80	520	105
600	300	495 x 220	1	126	470	195
800	300	345 x 130	2	80	320	105

Perforated rails on the door

Enclosure (3) (mm)		Perforated rails on the door (mm)			
Height (A)	Width (B)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
400	400	320	337	-	-
600	400	370	337	-	-
600	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

(3) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.

Spacial S3XEX compliant with the ATEX directive



Spacial S3XEX compliant with the ATEX directive

Aesthetics:

Stainless-steel enclosure with no cut-out.
Scotch-Brite® brushed finish.
Monobloc body with a cross-shaped structure.

Choice:

Plain door: 7 references.
Plain mounting plate.
Silkscreened mounting plate.
Microperforated mounting plate.
Telequick mounting plate.
DIN rail chassis.

Solid and sealed:

Resistance to external mechanical impacts: IK10.
Protection rating: IP66. Polyurethane gasket.
Gutter-shaped front profile.

Smart:

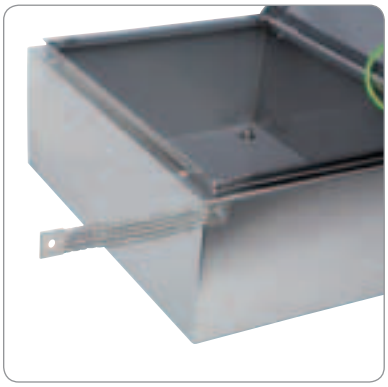
3-mm double-bar lock as standard.
Door rails cut-out with a pitch of 25 mm allowing accessories to be mounted on the door.

Easy:

The 4 fixing holes are blocked by four crimped blind nuts.
The door can be easily removed and turned over to open towards the left.

Convenient:

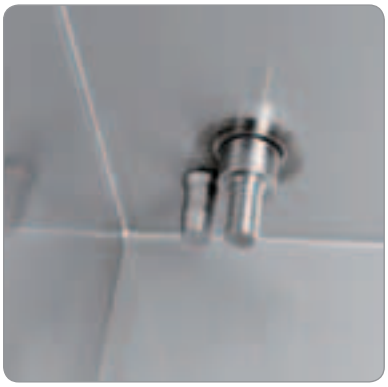
Large variety of common accessories with the Spacial S3X range.
Reusable packaging.


PB501249

Blind nut for external earth connection (on request).

PB501250

Earthing studs welded to the door and in the body.


PB501251

The mounting plates are mounted on 4 10-mm shouldered backstuds.

PB501252

The 4 fixing holes are blocked by 4 crimped blind nuts.

PB501253

Specific ATEX marking.

DB300581

Delivered in a reusable cardboard box with instruction sheet enclosed.

Introduction

PB500075

PB500385

The compulsory wall-fixing lugs:
– 304 stainless steel: reference **NSYPFCX**.
– 316L stainless steel: reference **NSYPFC2X**.

Technical characteristics

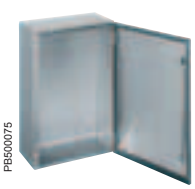
The Spacial ATEX range of stainless-steel enclosures is certified by the LOM with no. LOM 09ATEX3068U (component certificate).

The enclosures have the following marks:
Ⓔx II 2 GD Ex e II Ex tD A21 IP66 according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.

Download our ATEX certificates and product sheets over the internet.

- Stainless-steel material: AISI 304L with Scotch-Brite® brushed finish.
- Plain door.
- Protection rating of IP66 according to IEC 60529.
- Resistance to external mechanical impacts of IK10 according to IEC 62262.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Single-piece body (cross-shaped structure). Gutter-shaped front profile.
- 2 perforated vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories.
- Door reinforcement frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm.
- Standard closure with 3-mm double-bar lock (chrome-plated zamak).
- 2 closure points for heights of more than 500 mm.
- Stainless-steel hinges screwed onto the body of the enclosure, making it easier to remove and invert the door. Opening angle: 120°.
- Polyurethane gasket.
- M6 x 16 screws on the door and on the body, allowing equipotential connection.
- The wall-fixing lugs are compulsory; they are blocked by sealing plugs. The 4 fixing holes are blocked by 4 crimped blind nuts.
- One crimped M6 blind nut for an external earth connection (braid not supplied).
- Authorised ambient temperature limits:
  –25 °C ≤ Ta ≤ +60 °C

Selection guide for wall-mounting enclosures and main accessories


PB500075

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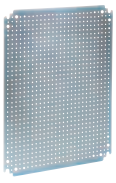
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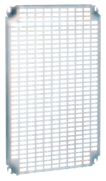
PB500102

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PB500136

External dimensions (mm)			Enclosure reference	Mounting plate reference				DIN rail chassis	Step slides
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYS3XEX3215	NSYMM32	-	NSYMF32	NSYMR32	-	-
400	300	200	NSYS3XEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
500	400	200	NSYS3XEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
600	400	200	NSYS3XEX6420	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
700	500	250	NSYS3XEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
800	600	250	NSYS3XEX8625	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
1000	800	300	NSYS3XEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300

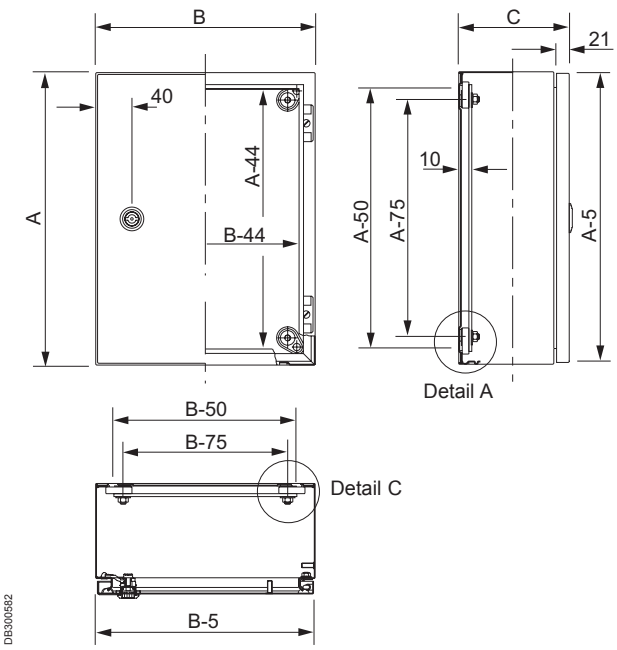
The accessories of the Spacial S3X enclosure can be installed in the Spacial S3XEX enclosure. However, plastic accessories should not be used, due to the risk of a static charge.

Dimensions

External dimensions (mm)			
Height (A)	Width (B)	Depth (C)	Fig.
300	200	150	1
400	300	200	1
500	400	200	2*
600	400	200	2
700	500	250	2
800	600	250	2
1000	800	300	3

*Without door reinforcement.

Fig. 1



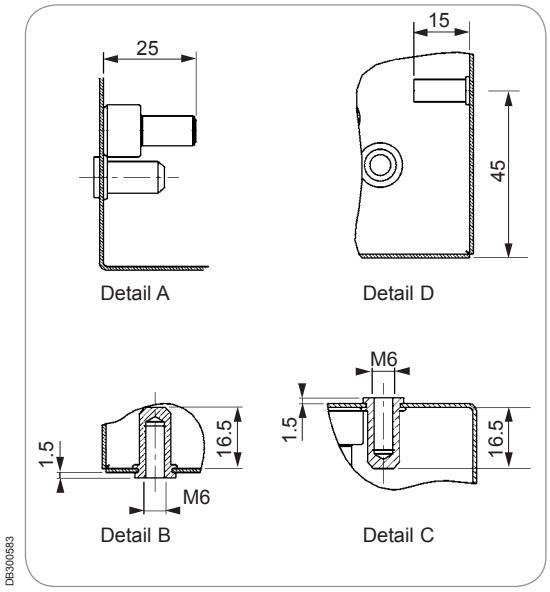


Fig. 2

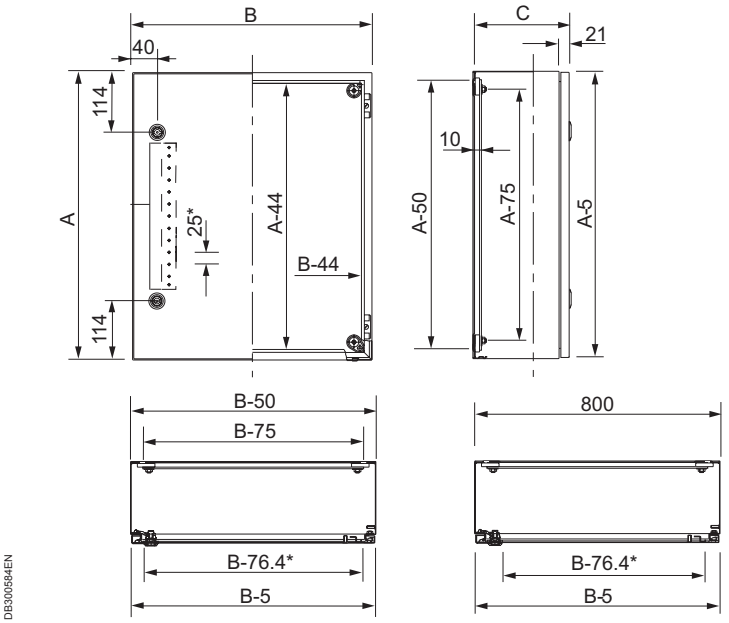
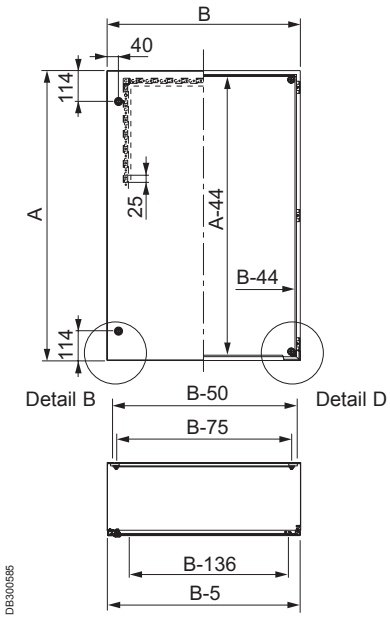
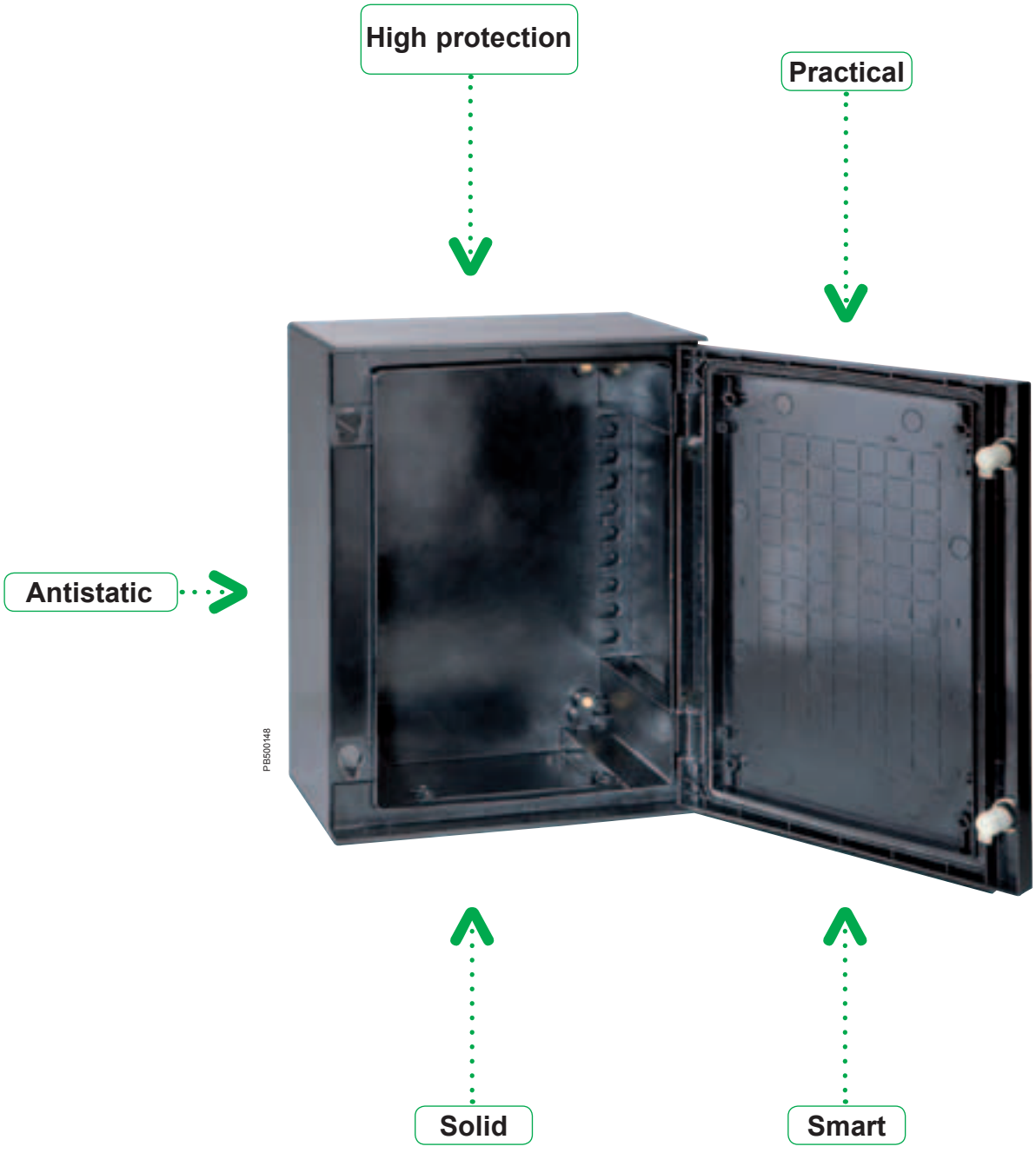


Fig. 3



*Door reinforcement.

Thalassa PLMEX polyester wall-mounting enclosure compliant with the ATEX directive



Thalassa PLMEX polyester wall-mounting enclosure compliant with the ATEX directive

High protection:

Built-in canopy.
High degree of protection: IP 66.
Locks outside the sealed zone.

Solid:

Single-piece body.
IK 10.
Corrosion-resistant pin.

Practical:

Opens to 180°.
Can open to right or left by turning the enclosure over.

Smart:

Chequered back of the door.
One notch every 25 mm for easy mounting of a DIN rail.

Antistatic:

No static electricity thanks to the presence of graphite additives in the polyester.

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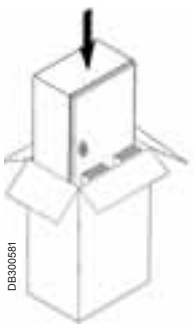
PB500148

PB500148

PB501349

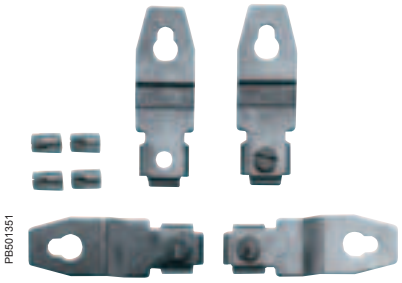
Specific ATEX marking.


DB300581

Delivered in a reusable cardboard box with technical instructions enclosed.

Thalassa PLMEX polyester wall-mounting enclosure
Introduction

PB501350


PB501351

The enclosures must be fixed by 4 stainless-steel lugs, which are mounted in inserts to be placed on the rear of the enclosure, in horizontal or vertical position.
Ref.: **NSYPFXPLM**.

Technical characteristics

The Thalassa.ATEX range of polyester enclosures is certified by the LOM with no. LOM 10ATEX3051U (component certificate).

The enclosures have the following marks:
Ex II 2 GD Ex e II Ex tD A21 IP 66 according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.
Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Download our ATEX certificates and product sheets over the Internet.

Specifications	NSYPLMEX3025	NSYPLMEX43/ 54/64/75/86	NSYPLMEX108
Degree of protection	IP 66	IP 66	IP 66
Impact resistance	IK 10	IK 10	IK 10
Built-in canopy	No	Yes	Yes
Opening	120°	180°	180°
Pins	Stainless steel	Polyamide	Stainless steel
Locking system	2 double-bar lock	2 double-bar lock	1 lock with double-bar insert and 4-point closure
Lock outside sealed zone	No	Yes	Yes
Notch system for DIN rails every 25 mm	No	Yes	**Yes**
Mounting plate assembly	Installed studs	Inserts and studs	Inserts and studs

Specific ATEX characteristics

- The surface resistance is < 10^9 Ω.
- Ambient temperature limits:
  –25 °C ≤ Ta ≤ +60 °C.
- Black colour (RAL9004).

Selection guide for wall-mounting enclosures and main accessories

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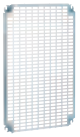
PB500072

PB500100

PB500101


PB500102

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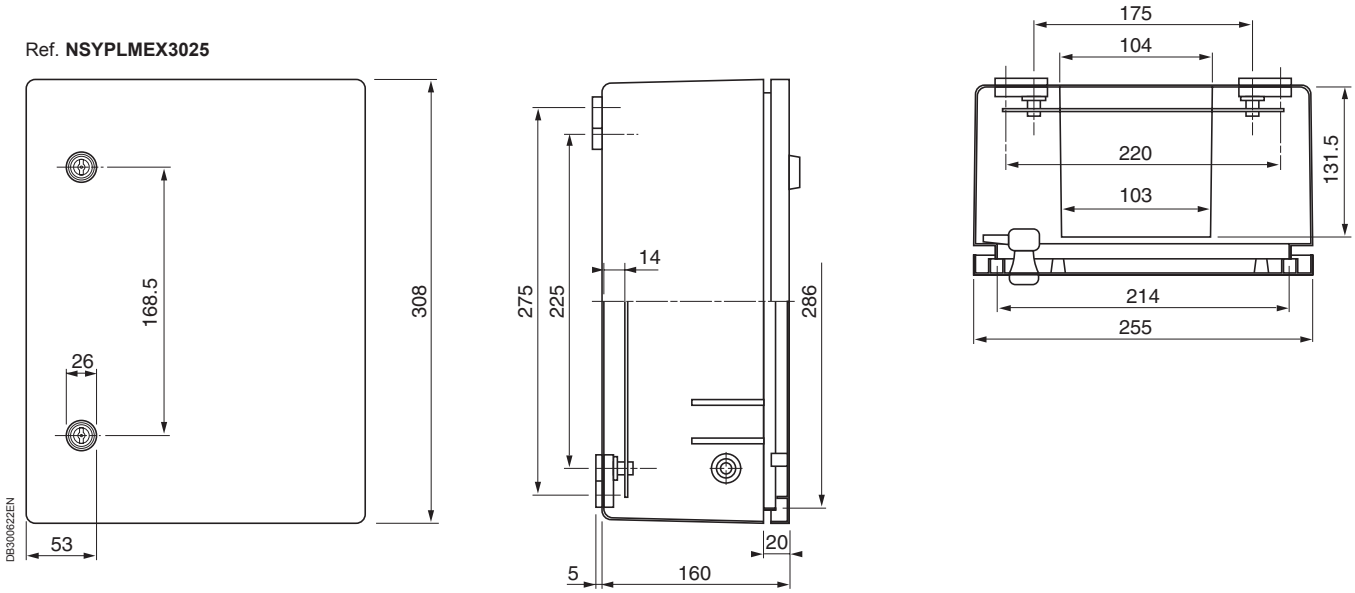
PB500150

External dimensions (mm)			References	Metallic mounting plate references				References	
Height	Width	Depth	Enclosures	Plain	Silkscreened	Microperforated	Telequick	Step slides	Padlocking
308	255	160	**NSYPLMEX3025**	**NSYMM3025**	-	-	**NSYMR3025**	-	-
430	330	200	**NSYPLMEX43**	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	**NSYDPLM200**	**NSYKPLM**
530	430	200	**NSYPLMEX54**	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	**NSYDPLM200**	**NSYKPLM**
647	436	250	**NSYPLMEX64**	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	**NSYDPLM250**	**NSYKPLM**
747	536	300	**NSYPLMEX75**	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	**NSYDPLM300**	**NSYKPLM**
847	636	300	**NSYPLMEX86**	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYDPLM300**	**NSYKPLM**
1056	852	350	**NSYPLMEX108**	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	**NSYDPLM350**	**NSYBCPL**

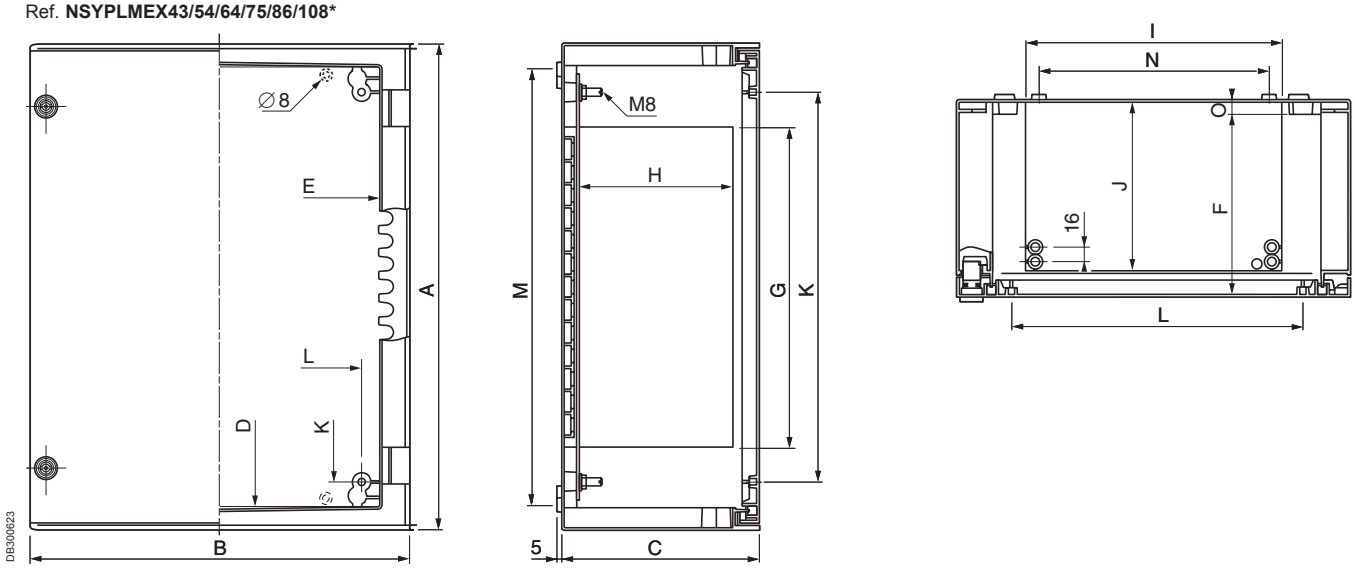
Accessories for Thalassa PLM enclosures can be installed in Thalassa PLM enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

Thalassa PLMEX polyester wall-mounting enclosure
Dimensions

Ref. **NSYPLMEX3025**



Ref. **NSYPLMEX43/54/64/75/86/108***



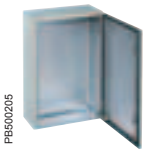
*

Dimensions										Bottom screw and door bosses		Fixing	References
A	B	C	D	E	F	G	H	I	J	K	L	O	
430	330	200	380	260	181	247	150	179	168	325	225	13	**NSYPLMEX43**
530	430	200	480	360	181	347	150	279	168	425	325	13	**NSYPLMEX54**
647	436	250	580	360	228	388	192	279	212	525	325	13	**NSYPLMEX64**
747	536	300	680	460	278	487	241	379	261	625	425	15	**NSYPLMEX75**
847	636	300	780	560	278	587	241	479	261	725	525	15	**NSYPLMEX86**
1056	852	350	980	760	327	775	280	680	300	925	725	15	**NSYPLMEX108**

EMC

PB5601682

EMC
Contents


PB500205

Spacial S3HF 566

PB501682

Spacial SFHF 568

PB501683

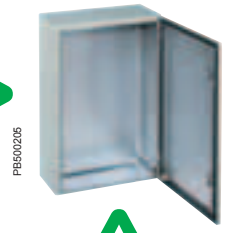
Spacial SMHF 572

Solutions for difficult or aggressive environments

Boxes, enclosures and floor standing enclosures already offer good IP protection against liquids and dust as well as mechanical protection against impacts. However, they can also reduce electromagnetic interference.

Performance: the type of sheetmetal and gaskets used for the fabrication of the EMC enclosure play an important part in this process.

Practical:
delivered with plain galvanized mounting plate.



Choice: 9 dimensions.

Practical:
share the range of accessories from Spacial SM and SF.

Choice: 4 dimensions.

Choice: 12 dimensions.

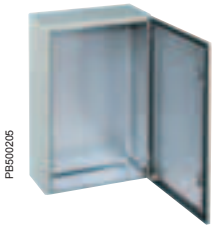
EMC = electromagnetic compatibility

Protection
All sensitive devices are effectively protected by zinced sheetmetal enclosures, manufactured in accordance with established standards.

Shielding
Provision of adequate screening, with the effectiveness of a Faraday cage.

Solutions for difficult or aggressive environments

Our Spacial EMC range



EMC box, IP 55

Spacial S3HF Wall mounting enclosure IP 55 IK 10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Textured epoxy polyester external paint finish, colour grey RAL 7035.
- Integral, galvanised, sheet steel, plain chassis (reference potential plate). The low resistivity of this plate facilitates earth continuity. Special body/door gasket (IP + EMC) providing both environment protection and continuity between the door and body of the enclosure. Body completely sealed, without any cable entries or apertures. Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility. Metal closing points with earth continuity, thus improving overall screening.

EMC enclosure, IP 55

Spacial SMHF floor standing enclosure IP 55 IK 10

From H 1800 x W 800 x D 400 to H 2000 x W 800 x D 600 mm

- Metal monobloc enclosure constructed from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body-door seal (IP + EMC), providing not only water tightness, but also electrical continuity between the door and the body, necessary for those assemblies. Cable gland plate with special built-in seal (IP + EMC).

EMC floor standing enclosure, IP 55

Spacial SFHF suitable enclosure IP 55 IK 10

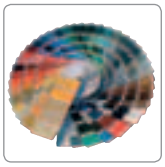
From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body/door gasket (IP + EMC) providing both environmental protection and electrical continuity between the door and body of the enclosure.
- Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility.
- The suite joining set is also available for the EMC enclosures, IP 55.

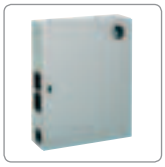
Customised service:

All standard dimensions from our catalogue on request and more...

Specific



Paints



Holes & Cutouts

Mounting

Construction changes

Accessories

The steel enclosure suited to your electromagnetic protection needs

PB500205

Enclosure delivered with solid mounting plate

- Single-piece metal enclosures made from special sheets of ALUZINC 150.
- The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.
- Painted on the outside with epoxy-polyester resin, RAL 7035 grey, structured.

Technical characteristics

- Protection degree: IP 55, according to IEC 60529.
- Resistance to external mechanical impacts: IK 10.
- Body:

– Single-piece body, folded and welded.
– Entirely sealed body with no cable entry and no opening.

- Equipped with four shouldered backstuds allowing direct fixing of the mounting plate:

– Built-in plain mounting plate made from galvanised sheet steel (potential reference sheet).
– Its low resistivity promotes earth continuity.
– Direct fixing or using wall-fixing lugs, ref. **NSYPFCR** (to be ordered separately).

- Door:

– The special body-door gasket (IP + EMC) provides, in addition to water and dust **tightness**, electric continuity between the door and the body of the enclosure.
– The metal lock with earth continuity helps improve the general shielding.
– An earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility.
– 3 mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**).

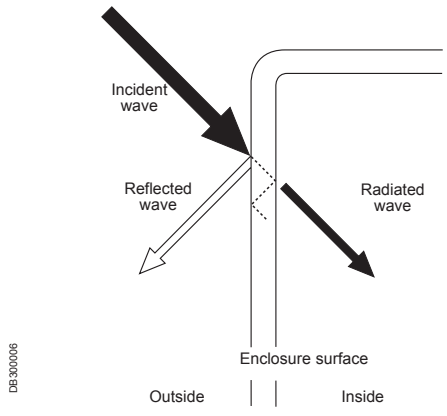
Other sizes: consult us.

Dimensions (mm)			Fig.	Weight Kg	Reference
Height	Width	Depth			
400	300	200	1	7.5	**NSYS3HF4320P**
400	600	200	1	13.0	**NSYS3HF4620P**
500	400	200	2	11.5	**NSYS3HF5420P**
600	400	200	2	13.0	**NSYS3HF6420P**
600	600	250	2	20.5	**NSYS3HF6625P**
700	500	250	2	19.0	**NSYS3HF7525P**
800	600	300	2	32.8	**NSYS3HF8630P**
1000	800	300	2	53.2	**NSYS3HF10830P**
1200	800	300	2	59.0	**NSYS3HF12830P**

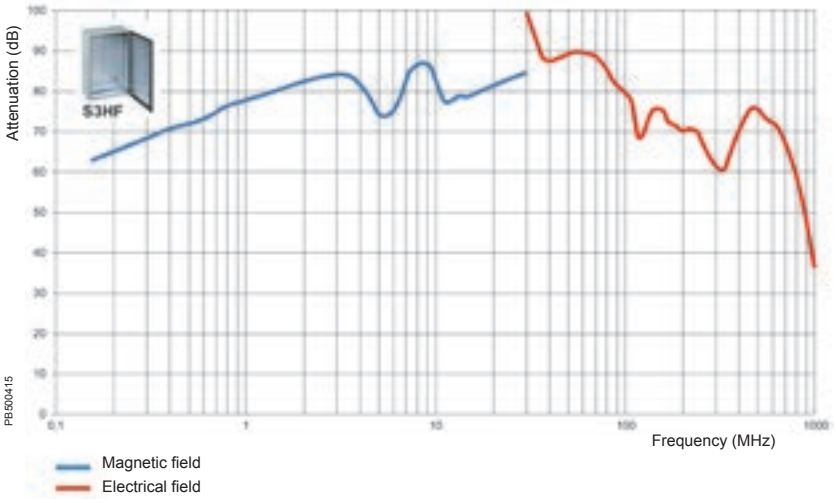
Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs).

Attenuation of the Spacial S3HF enclosure

The graphic next to these lines shows the attenuation curves (dB) according to the frequency (MHz).
General information on Electromagnetic Compatibility, see pages **788** to **790**.



DB300006



PB500415

Dimensions

A = Height.
B = Width.
C = Depth.

Figure 1

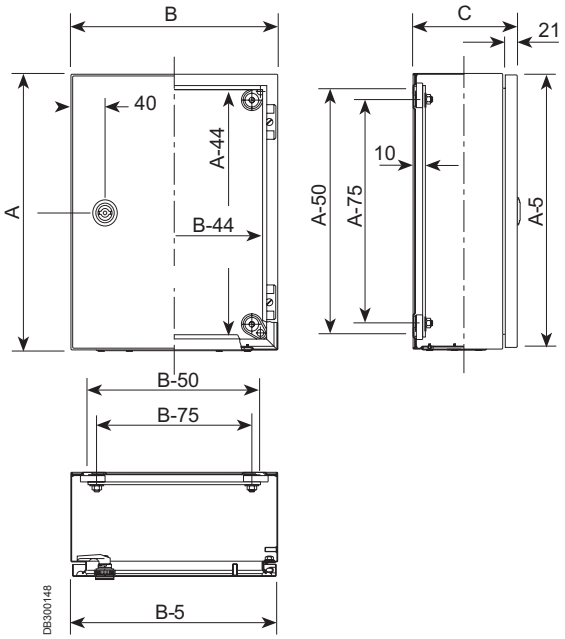
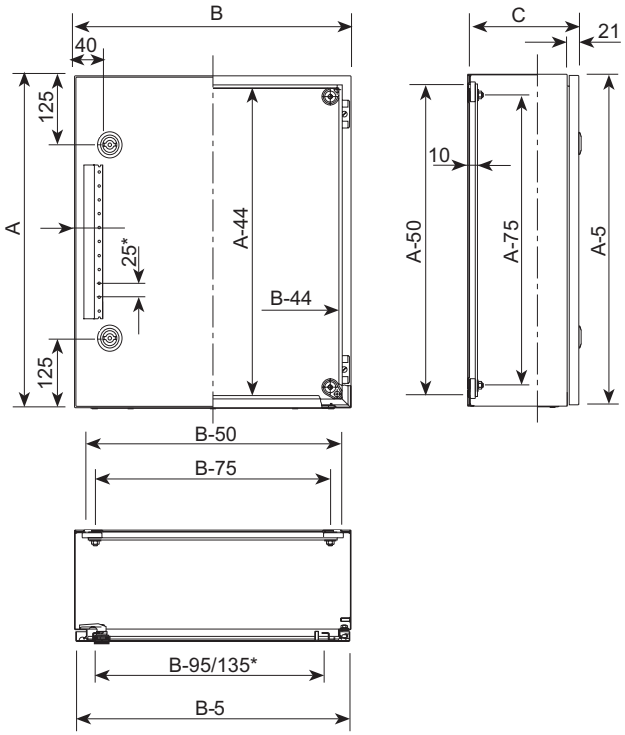


Figure 2



* Model 1200 x 800.

See also the accessories

Door accessories see page **470**

Rails see page **365**

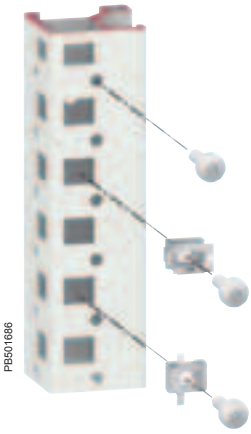
Ventilation see page **676**

The steel enclosure suited to your electromagnetic protection needs

Suitable and multi-purpose metal enclosure which ensures reflection of radiated electromagnetic interference

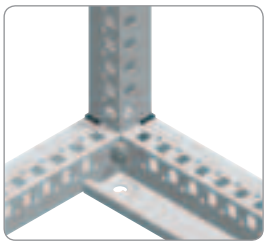
Performance

Convenience


PB501686

PB501682

Robustness

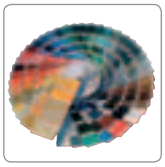

PB500490

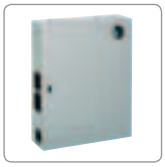
Aesthetics

PB501684

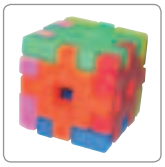
Customised service: All standard dimensions from our catalogue on request and more...

Specific


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting


PB501691
Construction changes

PB501692
Accessories

Electromagnetic protected steel floor-standing suitable enclosure

Standard Spacial SF EMC with all claddings.

EMC = electromagnetic compatibility.

Special gasket (IP+EMC).

Earth braid.

Introduction

Spacial SFHF suitable enclosures

- IP 55 according to IEC 60529.
- IK 10 according to IEC 62262.
- Colour: RAL 7035 grey epoxy polyester resin on the outside (inside not painted).

Technical characteristics:

- Structure:
– Galvanised-steel structure.
– Top and bottom frame, vertical upright.

- Claddings:
– Enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel.
– Side panels have to be ordered separately (see selection guide on page **570**).
– Special gasket (IP+EMC) between body, door and panels.

The enclosure is delivered as follows:

- 1 single plain door with door-reinforcement frame (double door on request, please consult us).
- Left or right opening to 120°.
- Delivered with standard locking system handle and 5-mm double-bar insert.
- 1 rear panel screwed from the outside.
- 1 removable roof.
- 1 part cable-gland plate with special gasket (IP+EMC).

Accessories:

- 4 brackets **NSYSMPSB** (fixing of mounting plate on back) delivered with the enclosure.
- 4 brackets **NSYSFPB** (fixing of mounting plate on intermediary position) delivered with the enclosure.

Further accessories:

- Compatible with mounting accessories for the standard SF enclosures.
- Plain galvanized mounting plate to be ordered separately (see page **333**).
- Earth braids to be ordered separately (see page **478**).
- Plinth height 100 mm or 200 mm (see page **129**).
- (IP+EMC) coupling kit available (see page **577**).
- Other lock options available (see pages **164 to 169**).
- Eye bolt (optional) maximum load 830 kg slinging at 60°.
- For other further description, see our specific solution.

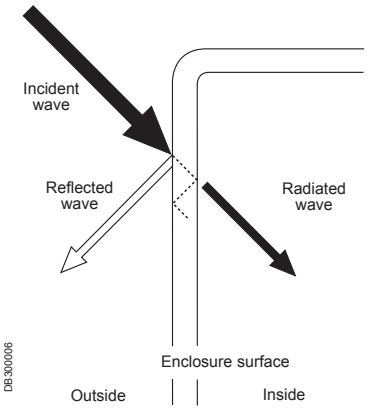
Certification:

- RoHS compliant.

Selection guide

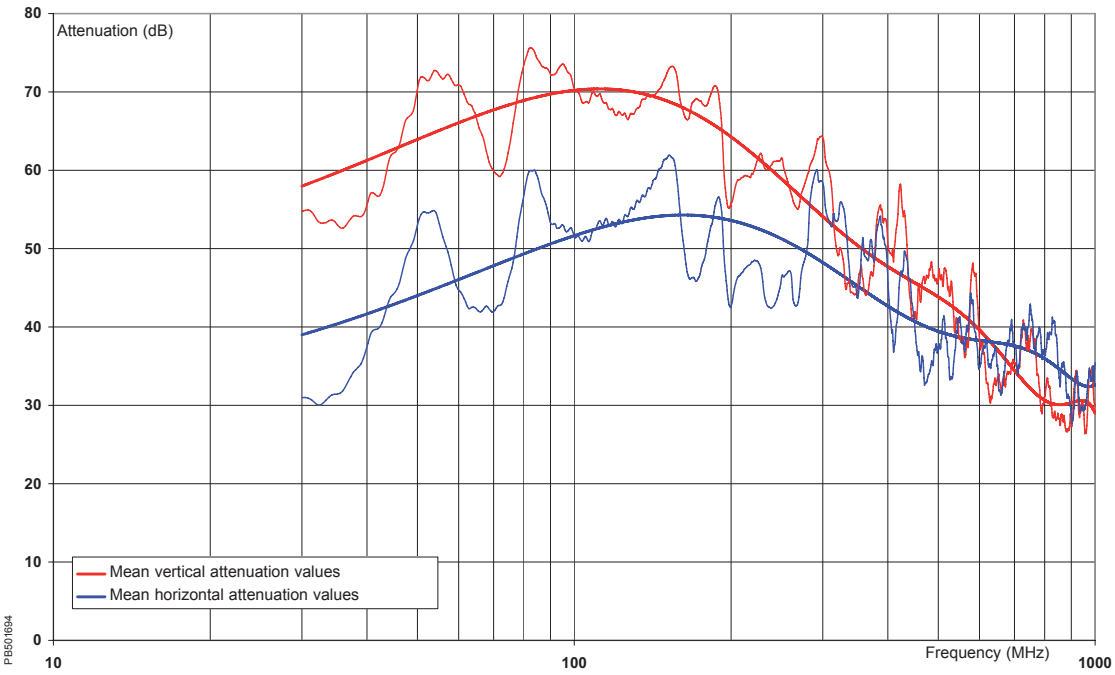
Height	Width	Depth	SFHF enclosure ref.	Side panel ref.
1800	600	600	**NSYSFHF18660**	**NSY2SPHF186**
	800	400	**NSYSFHF18840**	**NSY2SPHF184**
	800	600	**NSYSFHF18860**	**NSY2SPHF186**
2000	600	400	**NSYSFHF20640**	**NSY2SPHF204**
	600	600	**NSYSFHF20660**	**NSY2SPHF206**
	600	800	**NSYSFHF20680**	**NSY2SPHF208**
	800	400	**NSYSFHF20840**	**NSY2SPHF204**
	800	600	**NSYSFHF20860**	**NSY2SPHF206**
	800	800	**NSYSFHF20880**	**NSY2SPHF208**
2200	600	600	**NSYSFHF22660**	**NSY2SPHF226**
	800	600	**NSYSFHF22860**	**NSY2SPHF226**
	800	800	**NSYSFHF22880**	**NSY2SPHF228**

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.



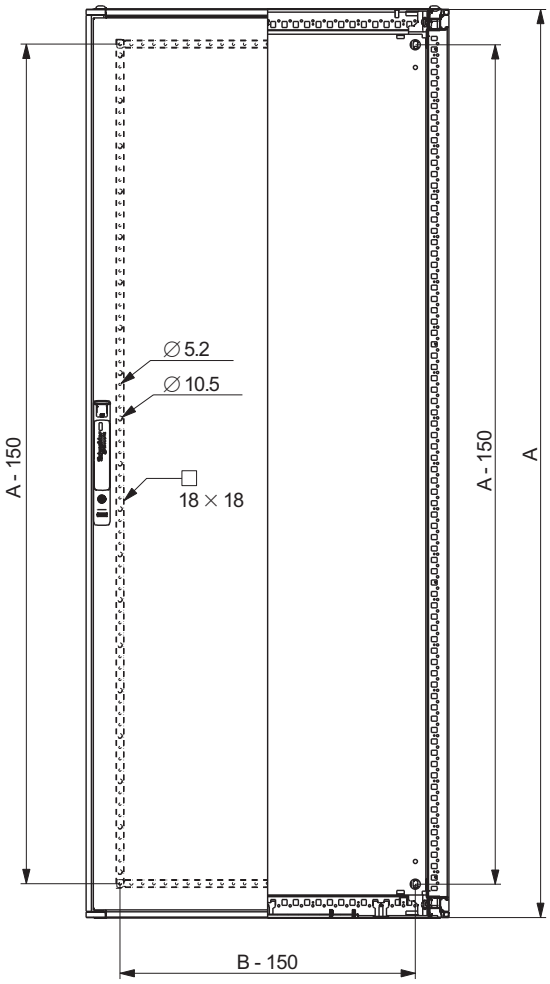
Floor-standing suitable enclosure

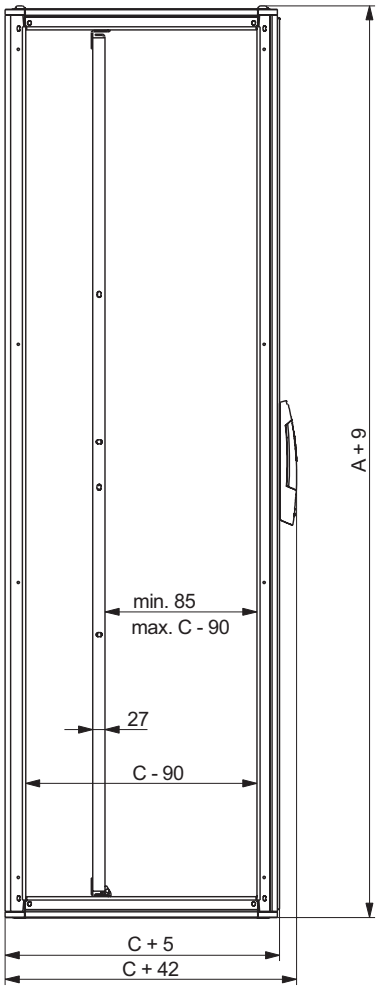
The illustration opposite indicates the attenuation (dB) curves related to the frequency (MHz).
Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).

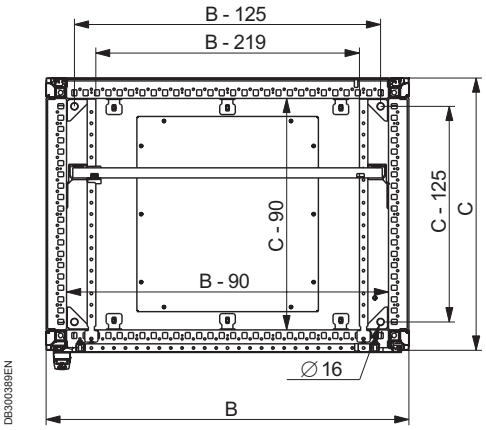


Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Dimensions







Download our DXF drawings from our website.

Please note that for technical reasons all mounting-plate positions are not suitable, please consult us.

The steel enclosure suited to your electromagnetic protection needs

Compact and multi-purpose metal enclosure which ensures reflection of radiated electromagnetic interference

Performance

Robustness

PB500466

Aesthetics

PB501684

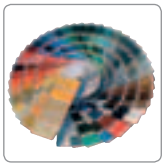
Protection

PB500469

PB501683

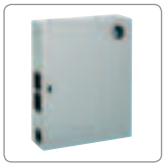
Customised service: All standard dimensions from our catalogue on request and more...

Specific



PB501688

Paints



PB500359

Holes & Cutouts

PB501690

Mounting

PB501691

Construction changes

PB501692

Accessories

Electromagnetic protected steel floor-standing compact enclosure

Standard Spacial SM EMC with all claddings.

Special gasket (IP+EMC).

Earth braid.

Introduction

Spacial SMHF compact enclosures

- IP 55 according to IEC 60529.
- IK 10 according to IEC 62262.
- Colour: RAL 7035 grey epoxy polyester resin on the outside (inside not painted).

Technical characteristics:

- Body:

– Body made from Aluzinc steel painted on the outside only.

- Door:

– Front plain door (with reinforcement frame) made from Aluzinc steel.
– Special gasket (IP+EMC) between body and door.

The enclosure is delivered as follow:

- 1 plain door with door-reinforcement frame.
- Left or right opening to 120°.
- Standard handle with 5-mm double bar.
- 1 part cable-gland plate with special gasket (IP+EMC).

Accessories:

- 4 support bracket **NSYSMPB** for mounting plate.
- 1 plain galvanized mounting plate.
- Earth braid between enclosure body and door (see page **478**).

Further accessories:

- Compatible with mounting accessories for the standard SM enclosures.
- Individual and set plinth with heights of 100 and 200 mm to be ordered separately (see page **129**).
- Other lock options available (see pages **164 to 169**).
- Eye bolt (optional) maximum load 830 kg slinging at 60°.
- For other descriptions, see our specific solution.

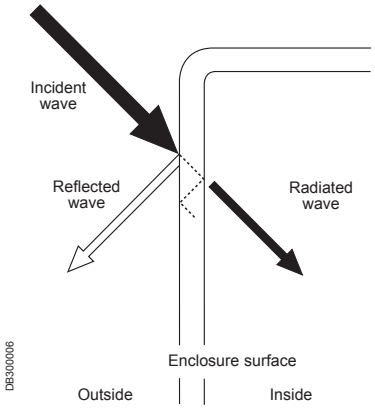
Certification:

- RoHS compliant.

Selection guide

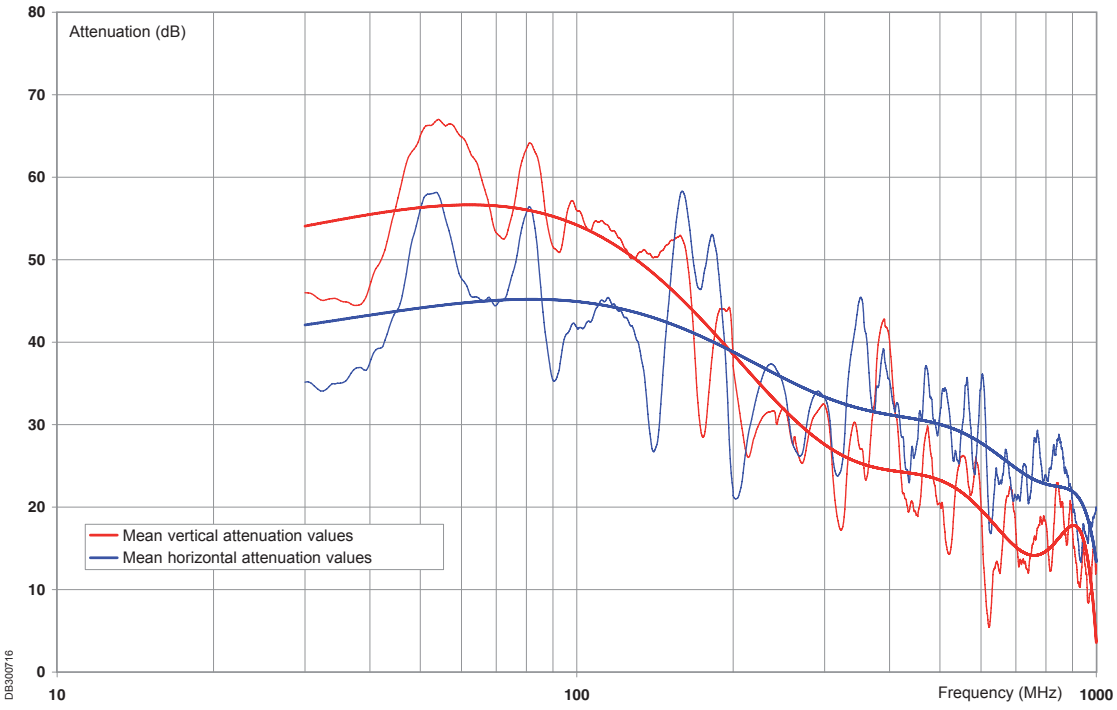
Height	Width	Depth	SM EMC ref.
1800	800	600	**NSYSMHF18660P**
	800	600	**NSYSMHF18860P**
2000	800	400	**NSYSMHF20840P**
	800	600	**NSYSMHF20860P**

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.



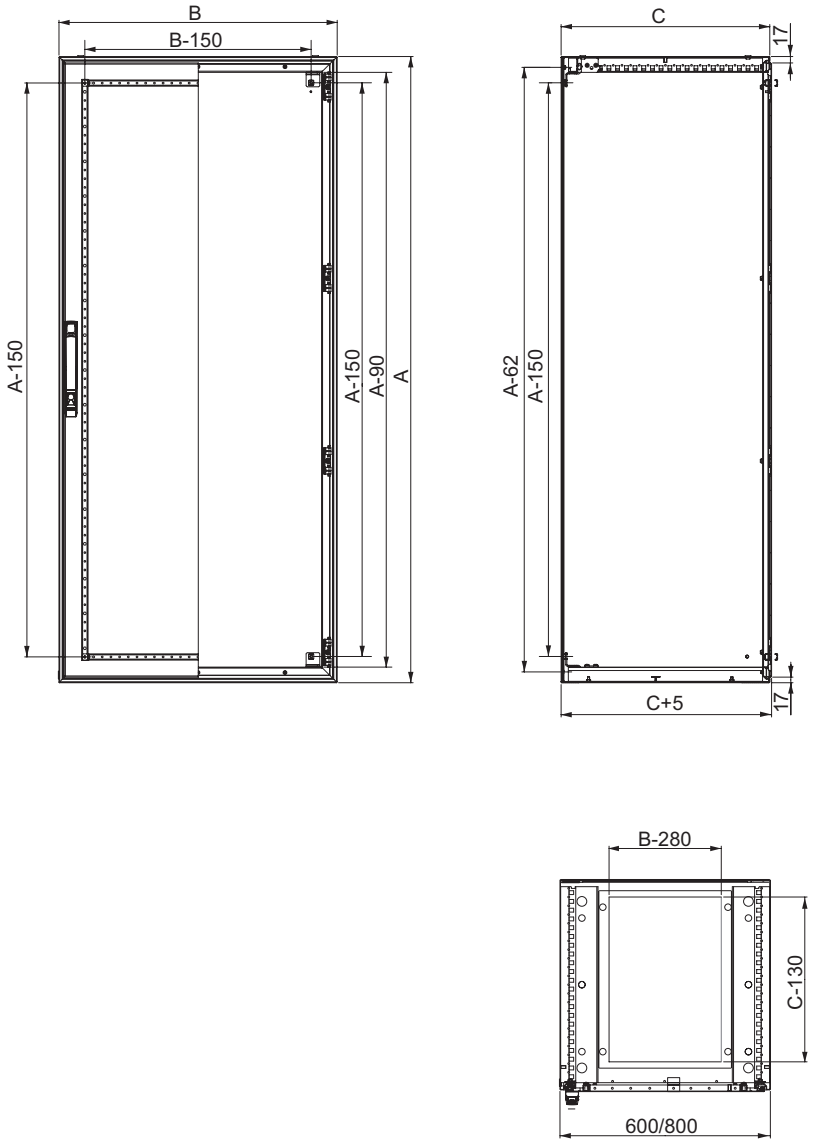
Floor-standing compact enclosure

The illustration opposite indicates the attenuation (dB) curves related to the frequency (MHz).
The enclosure is tested with earth braids mounted on all claddings (test performed following IEC 61587-3).



Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Dimensions



Download our DXF drawings from our website.

Accessories

Lifting
Pages **148 and 149**

Canopies
Page **152**

19" frame
Page **634**

Maintenance accessories
Page **469**

Modular distribution
Pages **386 to 388**

Locks and inserts
Pages **164 to 169**

Cable management
Page **419**

Thermal control
Pages **748 and 749**

Thermal solution
Pages **736 and 737**

Plinth page
Pages **129 and 130**

Fixing to the floor
Pages **139 to 141**

Get your accessories mounted directly at our factory with our Specific solution, please consult us.

Specific

Mounting

Accessories

PB501681

PB500504

All mounting accessories are compatible with the SF and SM standard range

- Mounting plate (see page **333**).
- Rails (see page **352**).
- 19" frame (fixed and swinging) (see page **634**).

PB500084

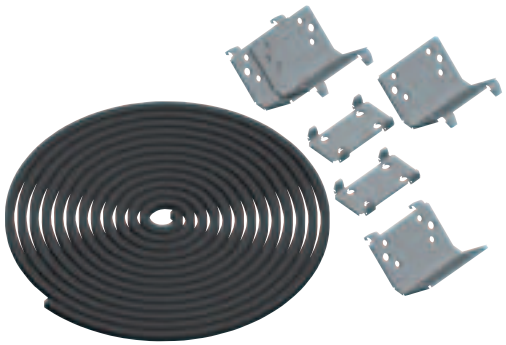
Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: tinned copper.

Supply: 10 earth braids (nuts and washers not included).

Reference by unit. Order by multiples of 10 (10, 20, 30 etc.).

Length (mm)	Width (mm)	Section (mm²)	Terminal Ø (mm)	Reference
150	12	6	6.5	**NSYEB156D6**
150	17	10	6.5	**NSYEB1510D6**
155	17	16	6.5	**NSYEB1516D8**
200	27	25	6.5	**NSYEB2025D8**
200	33	50	6.5	**NSYEB2050D8**

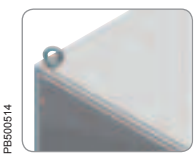

PB500513

EMC coupling kit

- Used to join enclosures side-by-side or depthwise.
- Degree of protection: IP 55.
- Special gasket for EMC solution.
- Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

Height	Depth	Ref. SM EMC
1800	400	**NSYSFHFBK184**
	600	**NSYSFHFBK186**
2000	400	**NSYSFHFBK204**
	600	**NSYSFHFBK206**
	800	**NSYSFHFBK208**
2200	600	**NSYSFHFBK226**
	800	**NSYSFHFBK228**

Also check the selection table Pages 110 and 111


PB500514

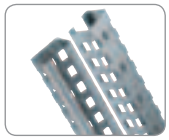
General accessories pages **148 and 149**

PB500471

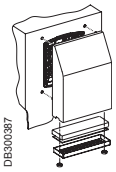
Locks and inserts pages **164 to 169**

PB500476

Door accessories page **467**


PB500483

Mounting accessories pages **344 to 346**


DB300387

Ventilation pages **676 to 679**

Power distribution systems

PB502041

Power distribution systems
Contents

Spacial S3DM 580

Spacial SF 582

Accessories 599

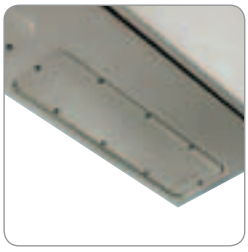
The dimensioned steel enclosure for your modular distribution application

PB500097

S3DM enclosure
(standard delivery).

PB500406

S3DM enclosure equipped
with a DLM* modular chassis.


PB500305

Top and bottom chequered
cable-gland plates.

PB500407

Earth braids on page **478**
(to be ordered separately).

8 dimensions with a depth of 150 mm and glazed door. From H 400 x W 300 to H 1000 x W 800 mm.
Enclosure with transparent door, 4 mm Securit® glass.
Plain door on demand, see page **581**.
Selection guide, page **24**.

Technical characteristics

- Structured finish, polyester powder, RAL 7035 grey colour.
- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 08.

Body

- Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Wall mounting by means of fixing lugs (to be ordered separately.
- 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them.
- Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).

Door

- Transparent door, 4 mm Securit® glass (also available in plain door).
- Easily removable and reversible door, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three locking points for heights of more than 600 mm.
- Wall-mounting enclosure supplied with 3 mm double-bar lock as standard.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.
- Polyurethane gasket.
- M6 x 16 mm earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories

- The Spacial S3DM enclosure for modular distribution can be equipped with:

– A modular chassis (**NSYDLM•••**) with cut-out front panels for 24 to 234 modules according to the dimensions and references (see page **382**).
– A 6 mm^2 earth connection placed between the body and the door.

For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (**NSYSDCR** type).
It can also be equipped with a plain mounting plate, see page **324**.

PB500408

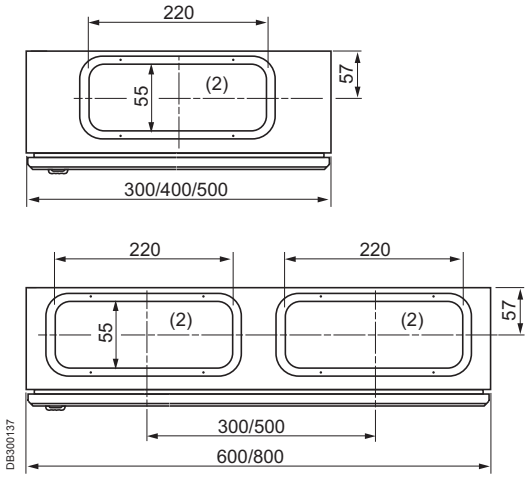
*The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel.The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

See also the accessories

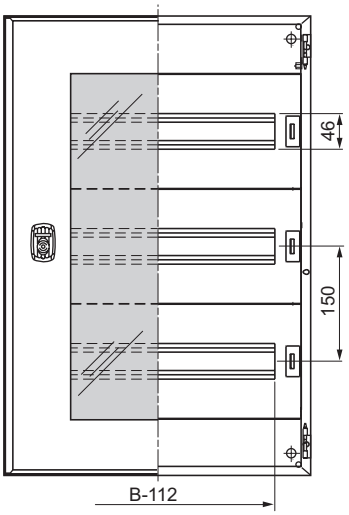
Blanking plate
page **385**

Terminal blocks
page **408**

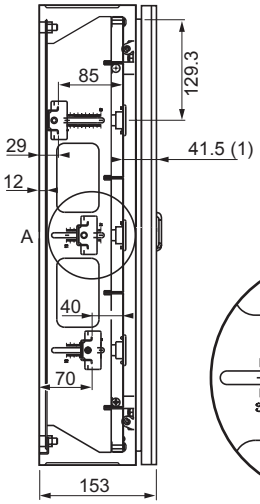
Dimensions

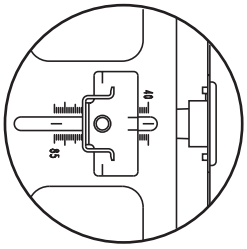


(1) Front face of the modular chassis / front face of the door.
(2) Cable-gland plates at the top and bottom of the enclosure.



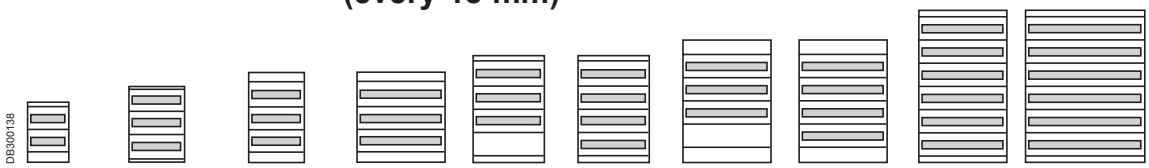
Front panel cut-out
(see page **383**)





Detail A

Number of modules per chassis** (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n° of modules	24	48	48	84	66	88	84	112	168	234

* References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.
** DLM modular chassis, see page **382**.

The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Selection guide of plain doors for S3DM enclosure

Description	References
Spacial wall-mounting enclosure, H400 x W300	**NSYPS3D43**
Spacial wall-mounting enclosure, H500 x W400	**NSYPS3D54**
Spacial wall-mounting enclosure, H600 x W400	**NSYPS3D64**
Spacial wall-mounting enclosure, H600 x W600	**NSYPS3D66**
Spacial wall-mounting enclosure, H700 x W500	**NSYPS3D75**

See also the accessories

Mounting plate
page **324**

Accessories for mounting plate
page **330**

Cable-management accessories
page **420**

Spacial SF for Prisma Plus P system

PB500211

The Spacial SF range includes specific enclosure models for installing the Prisma Plus P system: functional units and vertical and horizontal busbars.
The panels are subject to type tests according to standard IEC 61439-2.
Partition types: forms 2 and 3 thanks to the components of the Prisma Plus P system.

RAL 7035 grey, IP 55, IK 10.
Specific finishes and colours are available on demand using our customisation service.

The offer consists of:
- Steel suitable enclosures, height 2000 mm.
- Width 700 mm for installing Prisma P functional units and width 300 mm for installing cable ducting or vertical busbars.
- Depths 500 and 600 mm for panels up to 1600 A.
- Depth 800 mm for panels up to 3200 A or connection of devices by the rear.

To create mixed power distribution and automation panels, the Spacial SF enclosures for Prisma Plus P system can be coupled with standard Spacial SF enclosures and therefore use the universal mounting accessories.

Note: The standard Spacial SF 400mm width can also be used for cable ducting.

PB500740

Electrical characteristics

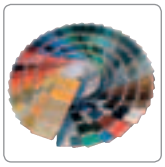
The installation of devices with the Prisma Plus P system for Spacial SF allows the installation of low-voltage equipment compliant with standards IEC 50298, IEC 62262 and IEC 61439-2 and having the following characteristics:
- Rated insulation voltage of the main busbar: 1000 V.
- Rated operational current: In 3200 A.
- Rated peak withstand current: Ipk: 187 kA.
- Rated short-time withstand current: Icw 85 kA eff/1 s.
- Frequency: 50/60 Hz.

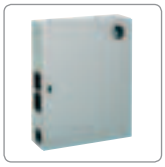
Mechanical characteristics

- Galvanised-steel framework.
- Sheet-steel panels, painted with epoxy-polyester resin, textured finish, RAL 7035 grey.
- The panels can be removed.
- The frameworks can be coupled side-to-side or back-to-back.
- IP 55.
- IK 10 (IK 08 for glazed doors).

Customised service: All standard dimensions from our catalogue on request and more...

Configured


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501692
Accessories

Spacial SF for Prisma Plus P system
Composition accessories

DB300252

W = 300 mm.

DB300253

DB300254

W = 700 mm.

Enclosure depth 500 Enclosure depth 600 or 800

Technical characteristics

These Spacial SF enclosures have been designed specially for installing the Prisma Plus P system: functional units and busbars. Height: 2000 mm.
IP 55 and IK 10 enclosures for the plain-door version or IK 08 for the glazed-door version.

The enclosures are available with 3 depths:
- 500 and 600 mm for panels up to 1600 A;
- 800 mm for panels up to 3200 A or connection by the rear.

The enclosures with width 700 mm support direct installation of Prisma Plus P system functional in white - RAL 9001.

The enclosures with width 300 mm can be used as cable ducts or for the installation of a flat busbar.

The bar compartment can be positioned on the right or on the left.
Bar compartments can be coupled side-to-side and back-to-back.

The enclosures with width 700 mm are compatible with all existing Prisma Plus P system functional units, except prefabricated connections, see Prisma Plus catalogue.

The enclosures with width 700 mm consist of:
- 2 frames (top and bottom with screwed roof);
- 4 vertical uprights;
- 4 adapter uprights (enclosure depth 500);
- 2 adapter uprights and 2 intermediate uprights (enclosure depths 600 and 800);
- Screwed rear panel.
- Plain or glazed door.

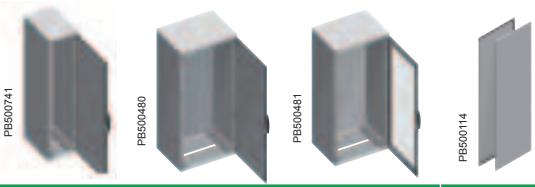
And can be coupled side-to-side and back-to-back.

The enclosures with width 300 mm consist of:
- 2 frames (top and bottom with screwed roof);
- 4 vertical uprights;
- Screwed rear panel;
- Plain door.

The Linergy busbar can only be installed in lateral position with depth 500 mm. Add the set of 2 Prisma Plus P system functional uprights **NSYSFPA**.

The enclosures are supplied assembled, without lateral panels.

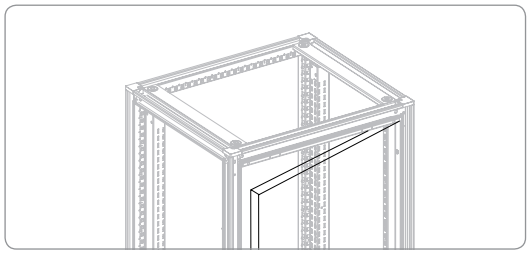
All Spacial SF enclosures for Prisma Plus P system can be coupled with Spacial SF enclosures with the same depth.


PB500741 PB500480 PB500481 PB500114

Height	Depth	Width			Set of 2 lateral panels
		300 Plain door	700 Plain door	700 Glazed door	
2000	500	**NSYSF20350**	**NSYSFP20750**	**NSYSFP20750T**	**NSY2SP205**
	600	**NSYSF20360**	**NSYSFP20760**	**NSYSFP20760T**	**NSY2SP206**
	800	**NSYSF20380**	**NSYSFP20780**	**NSYSFP20780T**	**NSY2SP208**

Use the earth cables to guarantee the earth connection of the side panels.

Spacial SF for Prisma Plus P system
Accessories


DB300255

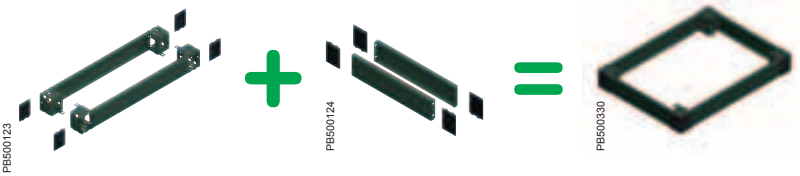
Prisma Plus hinged support frame

Hinged support frame for cover plates with width 700 mm.
- Reversible, opening to right/left.
- Colour: white - RAL 9001.
- Locking at 2 points by 1/4 turn nuts.
- Installed on enclosures with width 700 mm.
- Mandatory for installing Prisma Plus Functional units.

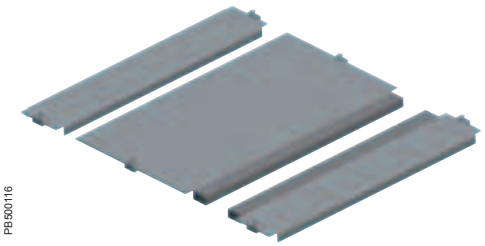
Reference
08566

Plinths

The plinths are available in 2 heights: 100 and 200 mm. They can be combined to obtain heights of 300 mm, 400 mm or more.
The complete plinth comprises two assemblies:
- The front and rear panels, with the 4 corners;
- 2 side panels.


PB500123 PB500124 PB500330

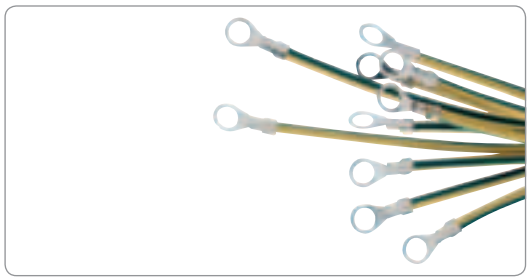
Width	Depth	Plinth H 100 mm		Plinth H 200 mm	
		Front/rear panels	Side panels	Front/rear panels	Side panels
300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200
	600		NSYSPS6100		NSYSPS6200
	800		NSYSPS8100		NSYSPS8200
700	500	NSYSPF7100	NSYSPS5100	NSYSPF7200	NSYSPS5200
	600		NSYSPS6100		NSYSPS6200
	800		NSYSPS8100		NSYSPS8200


PB500116

Cable-gland plate

Galvanised-steel plates for cable entry by the bottom of the enclosures, thickness 1.5 mm.
Fixing by C-shaped clips fixed by screws ensuring electrical continuity.
Plate with 1 entry: self-extinguishing polyurethane adhesive seal, rectangular section of 15 x 25 mm and fixing elements.

Width	Depth	Reference
300	500	NSYEC351
	600	NSYEC361
	800	NSYEC381
700	500	NSYEC751
	600	NSYEC761
	800	NSYEC781

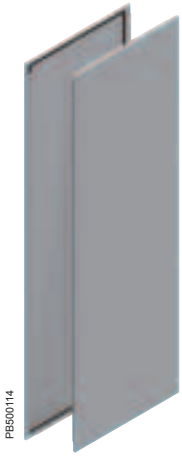

PB500217

Earth cables

- Essential to guarantee the earthing of the side panels, roof and door.
- Material: brass and copper alloy terminal, green and yellow PVC insulating sheath.
- Composition: 10 earth cables, to be ordered by multiples of 10 (nuts and washers not included).

Length (mm)	Cut (mm²)	Terminal Ø (mm)	Reference
160	6	8.3	NSYEL166D8
350	25	8.3	NSYEL3525D8

Spacial SF for Prisma Plus P system
Accessories

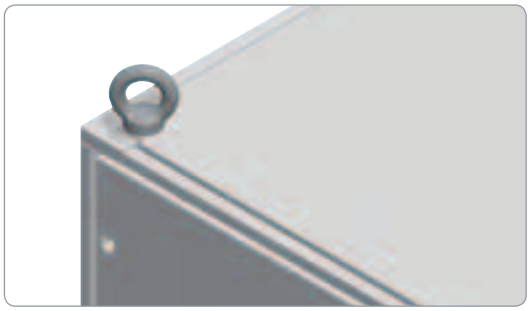

PB500114

Side panels

External fixing

- Set of 2 side panels fixed from the outside of the enclosure.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Supply: 2 side panels fixed from the outside and fixing elements.

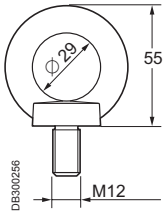
Nominal dimensions (mm)		Reference
Height	Depth	
2000	500	**NSY2SP205**
	600	**NSY2SP206**
	800	**NSY2SP208**


PB500514

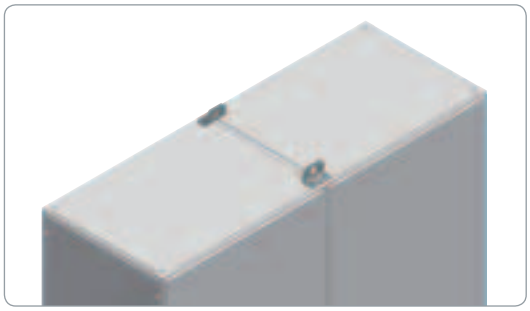
Eyebolts

Set of 4 moulded galvanised-steel M12 eyebolts for direct screwing in the framework of the enclosure, in line with the uprights.

Reference
NSYSFEB



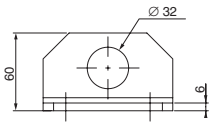
DB300256

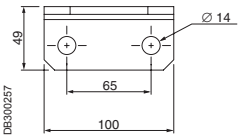

PB500506

Lifting brackets

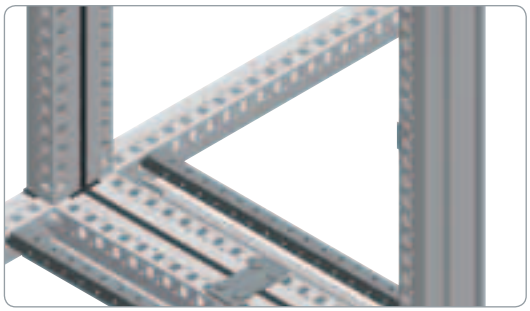
Set of 4 zinc-coated steel transport brackets for fixing to the framework, spanning two coupled enclosures, in line with the uprights.

Reference
NSYSFELB





DB300257

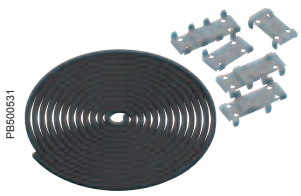

PB500532

Coupling kit

For side to side or back to back* coupling of 2 enclosures:
- Fixing from the inside of the enclosure.
- Protection degree: IP 55.
- Material:

– Flat links: zinc-coated steel.
– Sealing gasket: EPDM.

Reference
NSYSFBK19


PB500531

* Back to back associations must be shipped individually.

Spacial SF for Prisma Plus P system
Horizontal busbars up to 1600 A

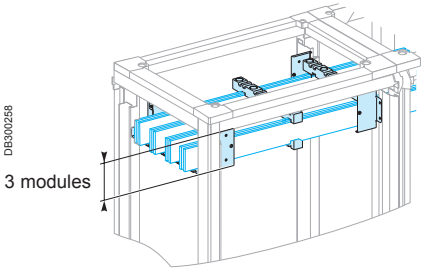
Busbar configuration

The bars are supported by insulating supports fixed to the framework.
The tables on this page show:
- The number and section of the bars to be used according to the permissible current level of the busbar;
- The number of bar supports to be installed in each type of framework, according to:

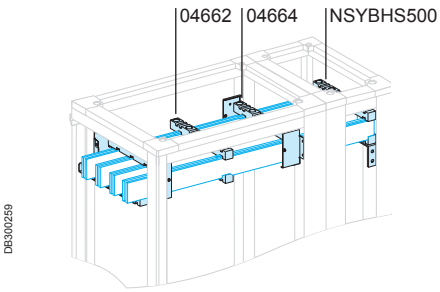
– The section of the bars
– The rated short-time withstand current Icw.

For further information on configuring the busbar, see page **589**.

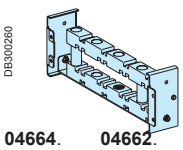
The busbar takes up 3 Prisma modules of 50 mm each.



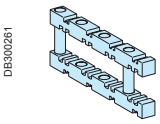
Busbar selection



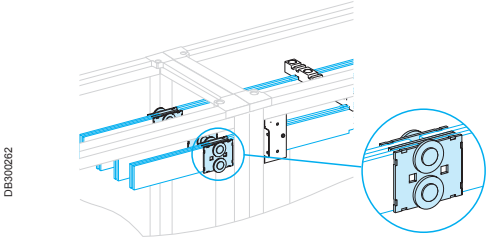
Fixed support and mobile support.



04664.



04662.



Connection.

Number and section of the copper bars

Permissible current level (A)	No. bars/phase
IP55	
750	1 bar, 60 x 5
900	1 bar, 80 x 5
1250	2 bars, 60 x 5
1600	2 bars, 80 x 5

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Number of supports

Framework width (mm)	Bar section (mm)	No. of Icw supports (kA eff/1 s)				
		≤ 15	≤ 25	≤ 30	≤ 40	≤ 50
700	1 bar, 60 x 5	2			3	
	1 bar, 80 x 5					
	2 bars, 60 x 5					
	2 bars, 80 x 5					
300	All sections	1			2	

Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 60 x 5	**04536**
Plain copper bar, 80 x 5	**04538**

Bar supports

2 compulsory fixed supports for frameworks with width 700 and 1 compulsory support for frameworks with width 300. If more supports are required, complete them using mobile supports.

Busbar centre-to-centre distance (mm)	Enclosure W700 Depth 500	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
	75	75	75	75
Fixed support for horizontal bars	**04664**	**NSYBHS500**	**NSYBHS600**	**NSYBHS800**
Mobile support (additional)	**04662**	**04662**	**04662**	**04662**

Connections

Connections		Reference
1 connection for bars	Width 60 mm	**04640**
	Width 80 mm	**04641**

Note: When installed at the bottom of the enclosure, the busbar must be partitioned.

Spacial SF for Prisma Plus P system
Horizontal busbars up to 3200 A

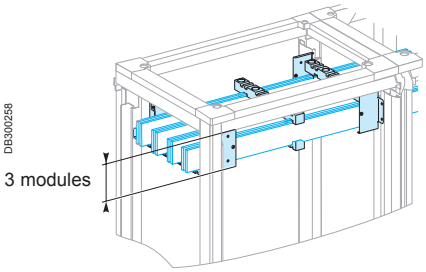
Busbar configuration

The bars are supported by insulating supports fixed to the framework.
The tables on this page show:
- The number and section of the bars to be used according to the permissible current level of in the busbar;
- The number of bar supports to be installed in each type of framework, according to:

– The section of the bars.
– The rated short-time withstand current Icw.

For further information on configuring the busbar, see page **589**.

The busbar takes up 3 Prisma modules of 50 mm each.



Number and section of the copper bars

Permissible current level (A) IP55	No. bars/phase
1080	1 bar, 50 x 10
1250	1 bar, 60 x 10
1600	1 bar, 80 x 10
1850	2 bars, 50 x 10
2000	2 bars, 60 x 10
2500	2 bars, 80 x 10
2900	2 bars, 100 x 10

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Number of supports (centre-to-centre distance: 75 mm)

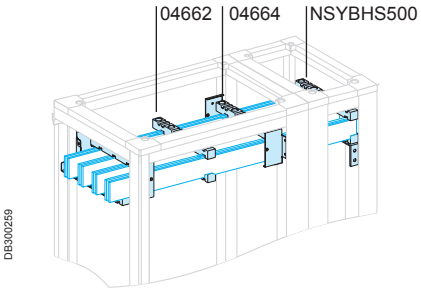
Framework width (mm)	Bar section (mm)	No. of Icw supports (kA eff/1 s)							
		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
700	1 bar, 50 x 10	2			3			4	
	1 bar, 60 x 10								
	1 bar, 80 x 10								
	2 bars, 50 x 10								
	2 bars, 60 x 10								
	2 bars, 80 x 10								
	2 bars, 100 x 10								
300	All sections	1				2			

Number of supports (centre-to-centre distance: 115 mm)

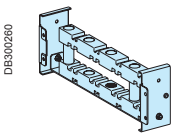
Framework width (mm)	Bar section (mm)	No. of Icw supports (kA eff/1 s)							
		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
700	1 bar, 50 x 10	2		3			4		
	1 bar, 60 x 10								
	1 bar, 80 x 10								
	2 bars, 50 x 10								
	2 bars, 60 x 10								
	2 bars, 80 x 10								
	2 bars, 100 x 10								
300	All sections	1				2			

Spacial SF for Prisma Plus P system
Horizontal busbars up to 3200 A

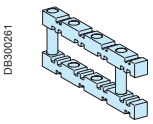
Busbar choice



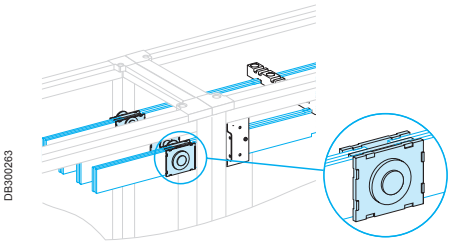
Fixed support and mobile support.



04664.



04662.



Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 50 x 10	**04545**
Plain copper bar, 60 x 10	**04546**
Plain copper bar, 80 x 10	**04548**
Plain copper bar, 100 x 10	**04550**

Bar supports

2 compulsory fixed supports for frameworks with width 700 and 1 compulsory fixed support for frameworks with width 300. If more supports are required, complete them using mobile supports.

Busbar centre-to-centre distance (mm)	Bar width	Enclosure W700	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
		75	75	75	75
Fixed support for horizontal bars	≤80 mm	**04664**	**NSYBHS500**	**NSYBHS600**	**NSYBHS800**
	>80 mm	**04664 +04671**	**NSYBHS500 +04671**	**NSYBHS600 +04671**	**NSYBHS800 +04671**
Mobile support (additional) for bars	≤80 mm	**04662**	**04662**	**04662**	**04662**
	>80 mm	**04662 +04671**	**04662 +04671**	**04662 +04671**	**04662 +04671**

Busbar centre-to-centre distance (mm)	Bar width	Enclosure W700 Depth 800	Enclosure W300 Depth 800
		115	115
Fixed support for horizontal bars	≤80 mm	**NSYBHS800L**	**NSYBHS800L**
	>80 mm	**NSYBHS800L +04671**	**NSYBHS800L +04671**
Mobile support (additional) for bars	≤80 mm	**04678**	**04678**
	>80 mm	**04678 +04671**	**04678 +04671**

Connections

Connections		Reference
1 connection for bars	Widths 50 and 60 mm	**04640**
	Widths 80 and 100 mm	**04641**

Note: When installed at the bottom of the enclosure, the busbar must be partitioned.

Spacial SF for Prisma Plus P system
Linergy vertical busbars up to 3200 A, depth 500 mm

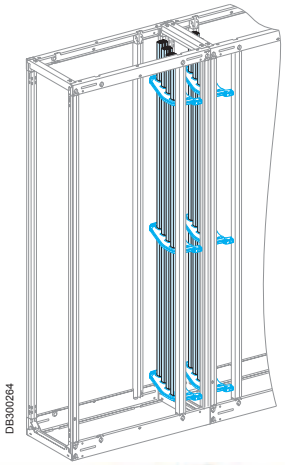
Busbar configuration

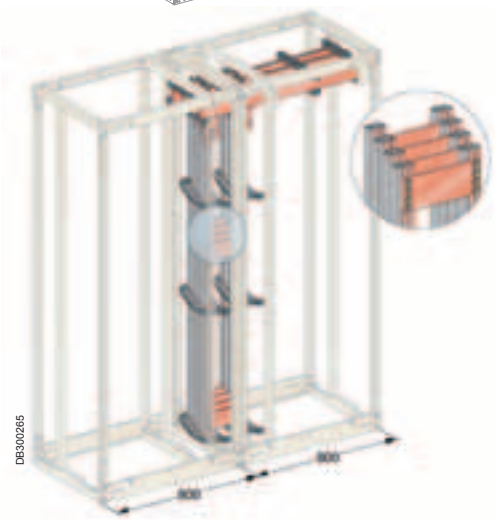
The table on this page shows:
- The reference of the aluminium profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s).

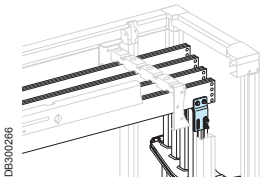
Beyond 1600 A, the busbar is doubled in two bar compartments, side-by-side.
In this case, it is compulsory to install 3 equipotential links between the busbars.
- The support is identical, regardless of the current-carrying capacity.

Linergy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents Icw (kA eff / 1 s)							
		IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
Linergy 630	**04502**	590	3							
Linergy 800	**04503**	760								
Linergy 1000	**04504**	950								
Linergy 1250	**04505**	1170				4	5			
Linergy 1600	**04506**	1480							7	8
Double busbar										
Linergy 2000	**04504** x 2	1820	2 x 3				2 x 4		2 x 5	
Linergy 2500	**04505** x 2	2260								
Linergy 3200	**04506** x 2	2920								

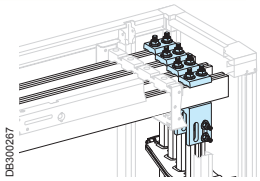
Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.







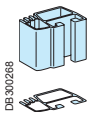
04635 connection to horizontal bars, thickness 5 mm.



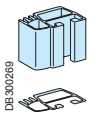
04636 connection to horizontal bars, thickness 10 mm.

Busbar selection

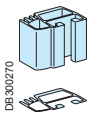
Linergy rail with width 1670 mm, section 32.5 x 42.5 mm.
Choice of references: see table below.



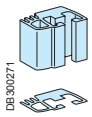
630 A rail, ref. **04502**



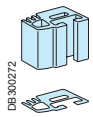
800 A rail, ref. **04503**



1000 A rail, ref. **04504**



1250 A rail, ref. **04505**



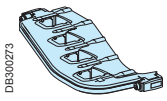
1600 A rail, ref. **04506**

Bar support and adapter upright

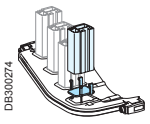
- To install a Linergy busbar in a 300-mm sheath, depth 500 mm, it is necessary to add the adapter uprights.
- The Linergy bar supports are delivered with class 8.8 fixings.

Description	Reference
Adapter upright, batch of 2	**NSYSFPA**
Linergy bar support	**04651**

The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.



Bar support installed



Each rail is delivered with one stop to be on the bottom support

Connection to a horizontal busbar

It connects a horizontal busbar (thickness 5 or 10 mm) to a Linergy lateral busbar. It is delivered with fixings.

Connection (1)		Reference
to horizontal bars, thickness 5 mm	1000 A connection conductor	**04634**
	1600 A connection conductor	**04635**
to horizontal bars, thickness 10 mm	connection conductor for horizontal bar width ≤ 80 mm	**04636**
	connection conductor for horizontal bar width > 80 mm	**04636 + 04642**

(1) References **04634**, **04635** and **04636** are delivered as a unit: 1 link per phase.

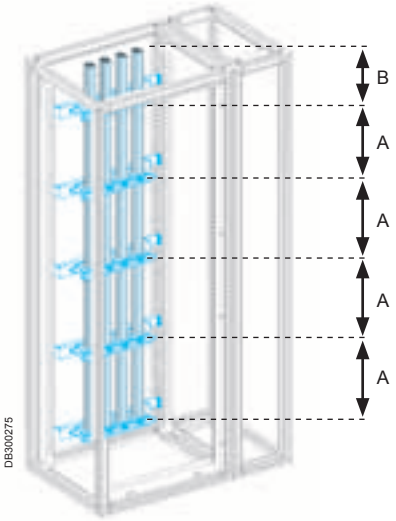
Spacial SF for Prisma Plus P system

Linergy rear busbars up to 1600 A

Busbar configuration

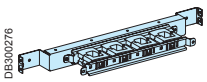
The table on this page shows:
- The reference of the profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s).

The busbar is installed in enclosures with width 700 mm, depth 500 mm.
- The support is identical, regardless of the current-carrying capacity.

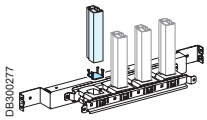


Busbar up to 1600 A (30 kA SCC and 40 kA).
The bottom support can also be used to wedge the bars.

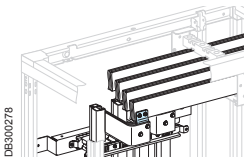
B = max. 387.5 mm
A = max. 350 mm



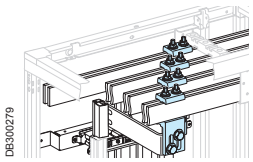
Bar support.



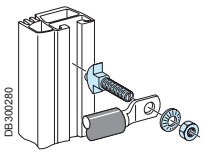
Each bar is delivered with one stop to be installed on the bottom support (vertical wedging).



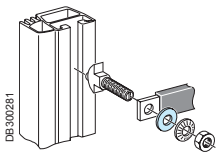
04635 connection with horizontal bars, thickness 5 mm.



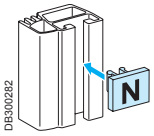
04636 connection with horizontal bars, thickness 10 mm.



Linergy bolts (screw + nut + contact washer).



Flat washers.

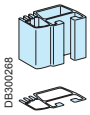


Linergy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)			
		IP > 31	≤ 25	≤ 30	≤ 40	≤ 50
Linergy 630	**04502**	590	3	4	5	7
Linergy 800	**04503**	760				
Linergy 1000	**04504**	950				
Linergy 1250	**04505**	1170				
Linergy 1600	**04506**	1480				

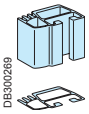
Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.

Busbar selection

Linergy rail with width 1670 mm, 32.5 x 42.5-mm section.
Choice of references: see table below.

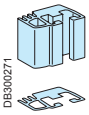


630 A rail, ref. **04502**



800 A rail, ref. **04503**

1000 A rail, ref. **04504**



1250 A rail, ref. **04505**

1600 A rail, ref. **04506**

Bar support

- A stop for the bottom support also allows the bars to be wedged.
- Delivered with class 8.8 fixings.

Bar support	Reference
for Linergy rear busbar	**04652**

Connection to a horizontal busbar

For connecting a horizontal busbar (thickness 5 or 10 mm) and a Linergy rear vertical busbar.

Connection (2)		Reference
to horizontal bars, thickness 5 mm		**04635 (1)**
to horizontal bars, thickness 10 mm	horizontal bars, width ≤ 80 mm	**04636 (1)**
	horizontal bars, width > 80 mm	**04636 + 04642 (1)**

(1) A part of the link must be made using insulated flexible bars.
(2) References **04635** and **04636** are delivered as a unit: 1 link per phase.

Linergy accessories

Linergy screws (3)

Batch of 20 Linergy M8 bolts (20 screws + 20 nuts + 20 contact washers)	Reference
Width = 25 mm (to connect flexible bars and lugs)	**04766**
Width = 39 mm (to connect copper bars)	**04767**

(3) The 8.8 screws slide along the rail and immobilise at the desired location.

Flat washers

Batch of 20 M8 flat washers		Reference
steel	outer diameter 20 mm	**04772**
	outer diameter 24 mm	**04773**
	outer diameter 28 mm	**04774**
brass	outer diameter 20 mm (i 25v lug connection on Linergy)	**04775**

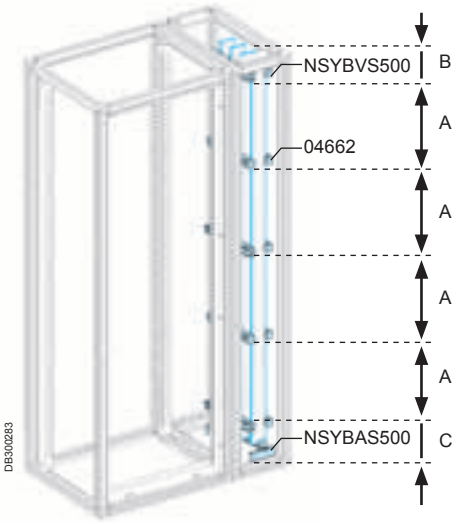
Identification

Set of 12 phase identifiers	Reference
12 clip-on supports + N, L1, L2, L3, PE, PEN labels	**04794**

Spacial SF for Prisma Plus P system
Vertical busbars up to 1600 A
Flat bars, thickness 5 mm

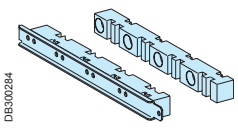
Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars are resting against a bottom support.
The table on this page shows:
- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed in an enclosure according to the rated short-time withstand current (Icw).

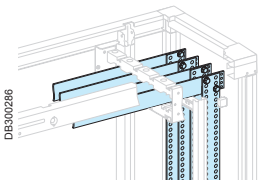


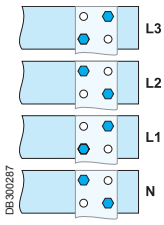
Busbar with Icw 30 kA eff/1 s.
The bars are supported by 3 fixed supports (compulsory) and 2 mobile supports.

B = max. 100 mm
A = max. 350 mm
C = max. 87.5 mm



Mobile bar support **04662.**





Separation required between bar coupling points to guarantee the insulation distances.

Number of copper bars and supports

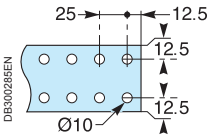
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)				
IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
750	1 bar, 60 x 5	3	5			7
900	1 bar, 80 x 5					
1250	2 bars, 60 x 5					
1600	2 bars, 80 x 5					

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
60 x 5 mm	**04516**
80 x 5 mm	**04518**



Bar supports: fixing directly on framework of 300-mm duct

3 fixed supports are compulsory for supporting the bars. If more than 3 supports are required, use the mobile supports (additional).

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	**NSYBVS500**	**NSYBVS600**	**NSYBVS800**	**NSYBVS800L**
Mobile support (additional)	**04662**	**04662**	**04662**	**04678**

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

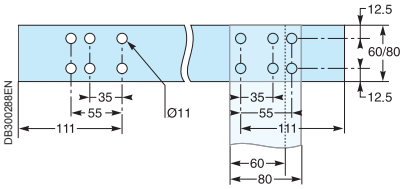
Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Bottom support for lateral flat busbar	**NSYAS500**	**NSYAS600**	**NSYAS800**	**NSYAS800L**

Note: When connecting 5-mm flat bars to a horizontal busbar, references **NSYAS•00** are not required.

Connection to a horizontal busbar, thickness 5 mm

Direct connection (centre-to-centre distance 75 mm)

For a busbar centre-to-centre distance of 75 mm, the bars must be completely overlapped.

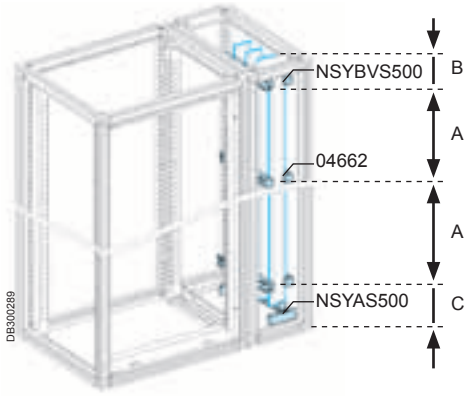


Drilling dimensions for the horizontal bars, thickness 5 mm.

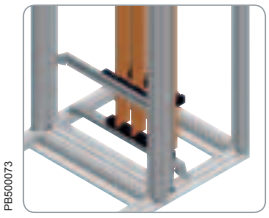
Spacial SF for Prisma Plus P system
Vertical busbars up to 3200 A
Flat bars, thickness 10 mm

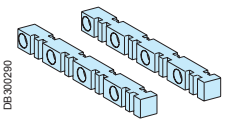
Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars are resting against a bottom support.
The table on this page shows:
- The number and section of the bars to be used according to the permissible current level of the busbar;
- The number of bar supports to be installed in an enclosure according to the rated short-time withstand current (Icw).

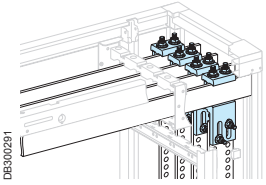


Single busbar ≤ 1600 A (IP ≤ 31).





Mobile bar support **04662.**



Number of copper bars and supports

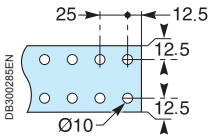
Permissible current level (A) for panel		No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)							
IP ≤ 31	IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
1200	1080	1 bar, 50 x 10	3		5		7		9	
1400	1250	1 bar, 60 x 10								
1800	1600	1 bar, 80 x 10								
2050	1850	2 bars, 50 x 10								
2300	2000	2 bars, 60 x 10								
2820	2500	2 bars, 80 x 10								
3200	2820	2 bars, 100 x 10								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
50 x 10 mm	**04525**
60 x 10 mm	**04526**
80 x 10 mm	**04528**



Bar supports: fixing directly on framework of 300-mm duct

3 fixed supports are compulsory for supporting the bars. If more than 3 supports are required, use the mobile supports (additional).

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	**NSYBVS500**	**NSYBVS600**	**NSYBVS800**	**NSYBVS800L**
Mobile support (additional)	**04662**	**04662**	**04662**	**04678**

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	**NSYAS500**	**NSYAS600**	**NSYAS800**	**NSYAS800L**

Connection to a horizontal busbar, thickness 10 mm

Vertical busbar connection (2)	Horizontal bars	Vertical bars	Reference
(1 bar/phase) to horizontal bars	L ≤ 80 mm	50/60 mm	**04636**
	L > 80 mm	50/60 mm	**04636 + 04642**
	L ≤ 80 mm	80 mm	**04637**
	L > 80 mm	80 mm	**04637 + 04642**
(2 bars/phase) to horizontal bars	L ≤ 80 mm	50/80 mm	**04637**
	L > 80 mm	50/80 mm	**04637 + 04642**

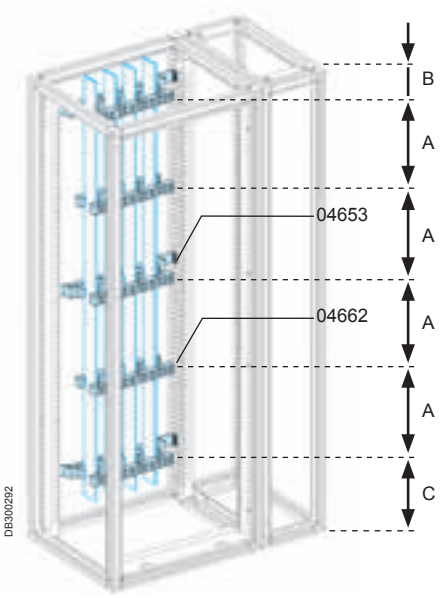
(2) References **04636** and **04637** are delivered as a unit: 1 link per phase.

Spacial SF for Prisma Plus P system
Rear busbars up to 1250 A
Flat bars, thickness 5 mm

Busbar configuration

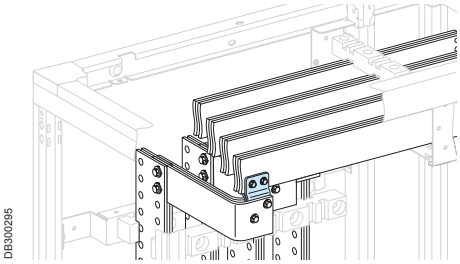
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars rest against one of the fixed supports by means of a wedge screwed onto each bar.
The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed according to the rated short-time withstand current (Icw).



Busbar with Icw 30 kA eff/1 s.
The bars are supported by 3 fixed supports, 04653 x 3 (compulsory), and 2 mobile supports, 04662 x 2.

B = max. 100 mm
A = max. 750 mm
C = max. 87.5 mm



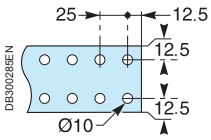
Number of copper bars and supports

Permissible current level (A) for panel		No. of bars/phase and section (mm)	No. of supports according to rated short-time withstand currents Icw (kA eff/1 s)				
IP ≤ 31	IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
800	750	1 bar, 60 x 5	3	5			7
1000	900	1 bar, 80 x 5					
1400	1250	2 bars, 60 x 5					

Busbar selection

Flat bars with width 1675 mm

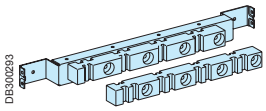
Perforated copper bar	Reference
60 x 5 mm	**04516**
80 x 5 mm	**04518**



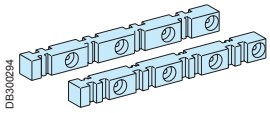
Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).

Bar support	Reference
fixed for rear flat busbar	**04653**
mobile (additional)	**04662**



Fixed bar support **04653.**

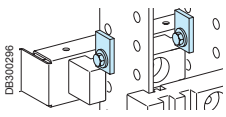


Mobile bar support **04662.**

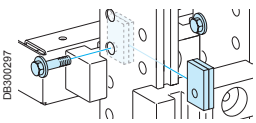
Bar wedging

A metal wedge with thickness 5 mm is screwed onto the bar.
It rests against a fixed support and wedges the bar.

Wedge for bars	Reference
100 5-mm wedges for bars	**04669**



Wedging: 1 bar/phase.



Wedging: 2 bars/phase.

Connection to a horizontal busbar

1600 A connection		Reference
to horizontal bars, thickness 5 mm		**04635 (1) (2)**
to horizontal bars, thickness 10 mm	L ≤ 80 mm	**04636 (1) (2)**
	L > 80 mm	**04636 (2) + 04642 (1)**

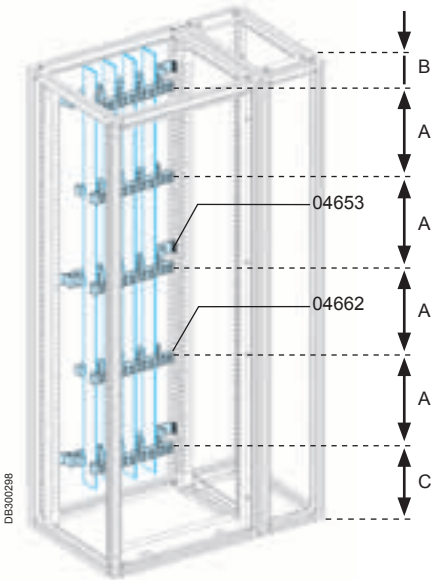
(1) A part of the link must be made using insulated flexible bars.
(2) References **04635** and **04636** are delivered as a unit = 1 link per phase.

Spacial SF for Prisma Plus P system
Rear busbars up to 1600 A
Flat bars, thickness 10 mm

Busbar configuration

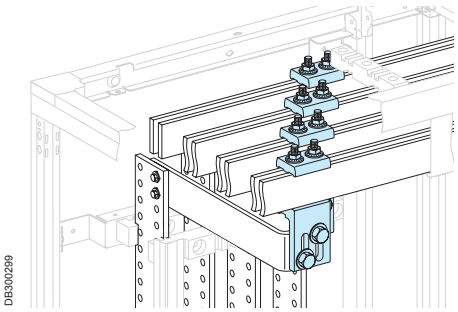
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars rest against one of the fixed supports by means of a wedge screwed onto each bar.
The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed according to the rated short-time withstand current (Icw en KA eff/15).
- The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.



Busbar with Icw 40 kA eff/1 s.
The bars are supported by 3 fixed supports, 04653 (compulsory), and 2 mobile supports, 04662.

B = max. 100 mm
A = max. 375 mm
C = max. 87.5 mm



Number of copper bars and supports

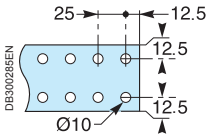
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)							
IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
1080	1 bar, 50 x 10	3	5			7		9	
1250	1 bar, 60 x 10								
1600	1 bar, 80 x 10								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

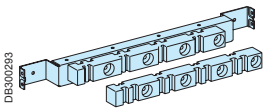
Perforated copper bar	Reference
50 x 10 mm	**04525**
60 x 10 mm	**04526**
80 x 10 mm	**04528**



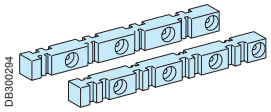
Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).

Bar support	Reference
fixed for rear flat busbar	**04653**
mobile (additional)	**04662**



Fixed bar support **04653.**

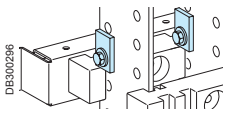


Mobile bar support **04662.**

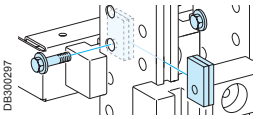
Bar wedging

A metal wedge with thickness 5 mm is screwed onto the bar.
It rests against a fixed support and wedges the bar.

Wedge for bars	Reference
100 5-mm wedges for bars	**04669**



Wedging: 1 bar/phase.



Wedging: 2 bars/phase.

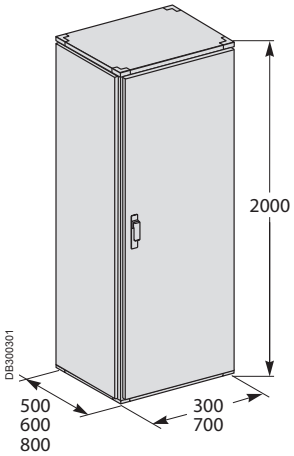
Connection to a horizontal busbar, thickness 10 mm

Connection ≤ 1600 A		Reference
to horizontal bars,thickness 10 mm	L ≤ 80 mm	**04636 (1) (2)**
	L > 80 mm	**04636 (2) + 04642 (1)**

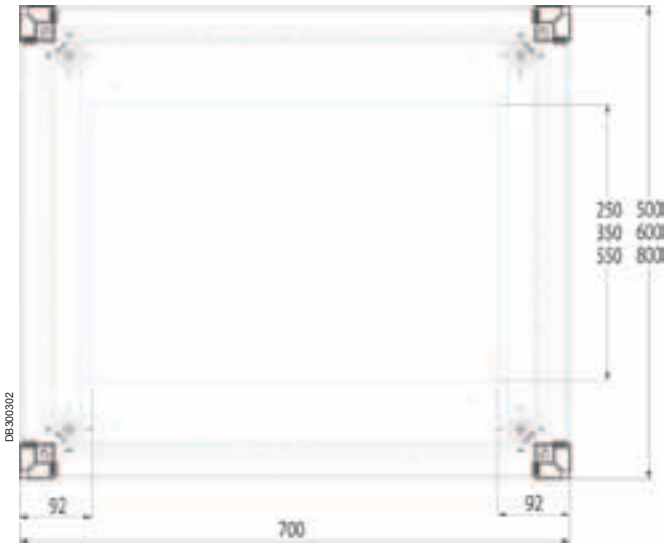
(1) A part of the link must be made using insulated flexible bars.
(2) References **04635** and **04636** are delivered as a unit = 1 link per phase.

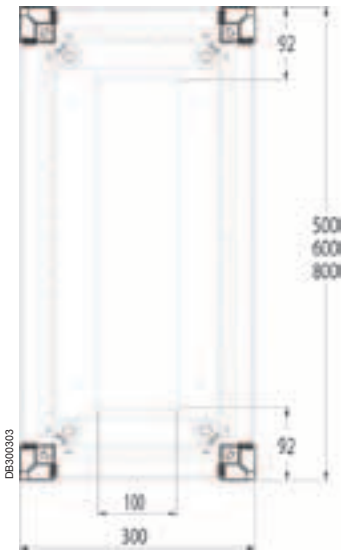
Spacial SF for Prisma Plus P system
Dimensions

Plain or transparent door, side panels



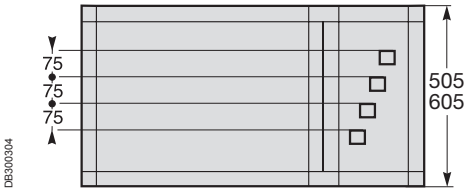
Cable-entry plate



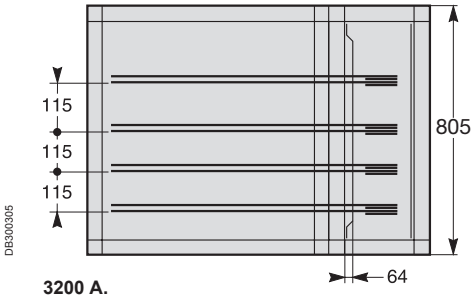


Spacial SF for Prisma Plus P system
Dimensions

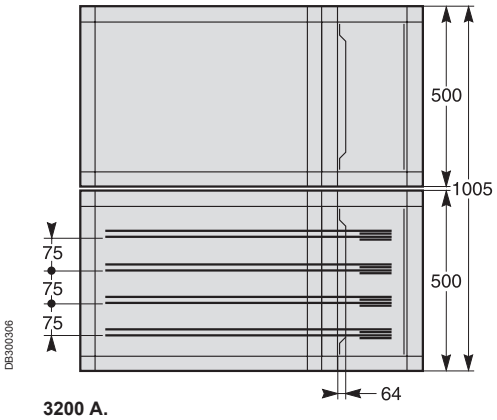
Busbar installation
Side vertical busbar



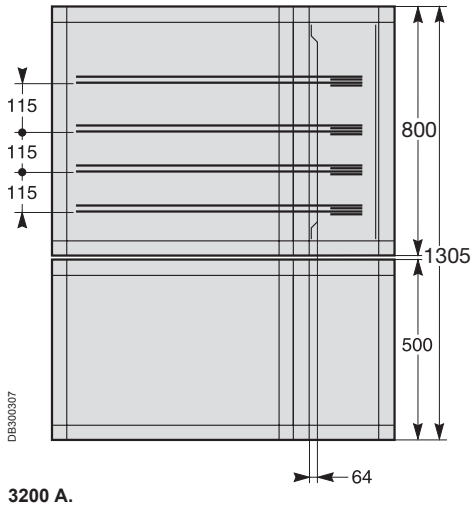
1600 A.



3200 A.

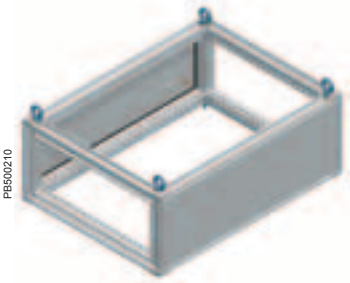


3200 A.



3200 A.

Power distribution
Power distribution accessories


PB500210

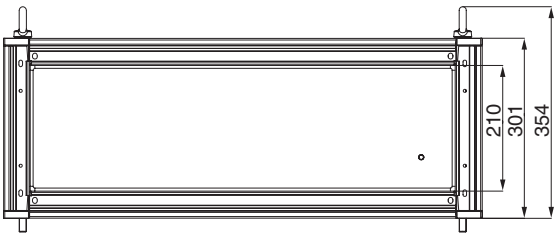
Top busbar chamber

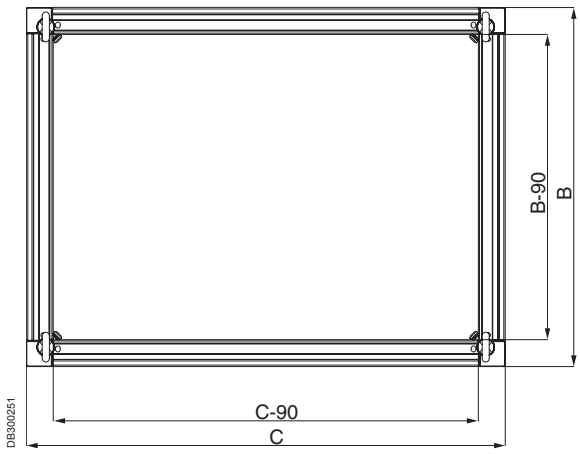
- Chamber which protects and supports the sets of horizontal bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It is only installed at the top of the enclosure.
- Degree of protection: IP55.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply:
– One structure of the busbar chamber as a kit.
– Two front panels.
– Four eyebolts.
– One sealing gasket.

PB500737

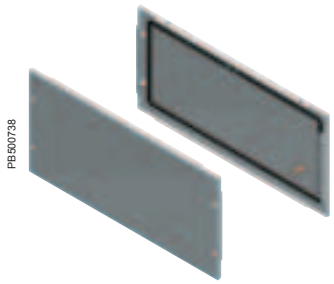
Nominal dimensions (mm)			Reference
Height (A)	Width (B)	Depth (C)	
300	300	500	**NSYTBC335**
		600	**NSYTBC336**
		800	**NSYTBC338**
	400	500	**NSYTBC345**
		600	**NSYTBC346**
		800	**NSYTBC348**
	600	500	**NSYTBC365**
		600	**NSYTBC366**
		800	**NSYTBC368**
	800	500	**NSYTBC385**
		600	**NSYTBC386**
		800	**NSYTBC388**
	1000	500	**NSYTBC3105**
		600	**NSYTBC3106**
		800	**NSYTBC3108**
	1200	500	**NSYTBC3125**
		600	**NSYTBC3126**
		800	**NSYTBC3128**





DB300251

Power distribution
Power distribution accessories



Side panels for the busbar chamber

- Set of two side panels for coupling with the busbar chamber.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side panels and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
300	500	**NSYSPBC35**
	600	**NSYSPBC36**
	800	**NSYSPBC38**

Side busbar chamber

- Protects and supports the sets of vertical bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It can be installed on either of the two sides of the enclosure.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply:
– One structure of the busbar chamber.
– One roof.
– One rear panel.
– One door with handle (5-mm DB lock).

Nominal dimensions (mm)			Reference
Height	Width	Depth	
1800	400	400	**NSYSF18440**
		500	**NSYSF18450**
		600	**NSYSF18460**
2000	300	500	**NSYSF20350**
		600	**NSYSF20360**
		800	**NSYSF20380**
	400	400	**NSYSF20440**
		500	**NSYSF20450**
		600	**NSYSF20460**
		800	**NSYSF20480**
2200	400	600	**NSYSF22460**

Power distribution
Busbars and blocks

Side panels for the side busbar chamber

- Set of 2 side panels fixed to the outside.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

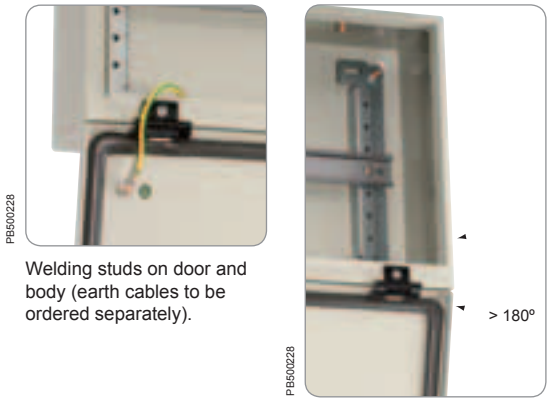
Supply: two side panels with external fixing and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1800	400	**NSY2SP184**
	500	**NSY2SP185**
	600	**NSY2SP186**
2000	400	**NSY2SP204**
	500	**NSY2SP205**
	600	**NSY2SP206**
	800	**NSY2SP208**
2200	600	**NSY2SP226**

The ideal junction enclosure for your application

Introduction

Vertical position. Horizontal position.



Welding studs on door and body (earth cables to be ordered separately).

Example of installation with the ladder mounting plate.

Terminal enclosure with a depth of 150 mm, from H 250 x W 300 to H 600 x W 400 mm with plain door, for equipping with terminals. The body does not have any cable-gland openings.
11 references.
Selection guide, page **24**.

Technical characteristics

- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

Body

Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Depth 150 mm.

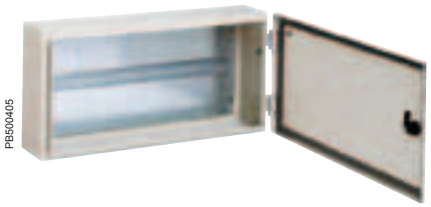
The terminal enclosure can be installed vertically (the width becomes the height).
- Wall mounting directly or by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 shouldered backstuds.
- Body without cable-gland openings.

Door
- Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°.
- Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).
- Maximum acceptable load on the door: 20 kg/m^2.
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories

The terminal enclosure, with a depth of 150 mm, can be equipped:
- With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds.
- With a symmetrical rail to be installed on the rails.
- With a 6-mm^2 earth braid to be placed between the body and the door.
- See page **74**.

It can also be equipped with a plain mounting plate, see page **324**.
This range is completed by the Spacial offer with screw-on cover, see page **53**.



Specific

On demand, it is possible to install the same enclosure dimension with a door with standard opening (not drop-leaf). Please consult our specific service.

See also the accessories

Fixing lugs for the earthing strip page **480**

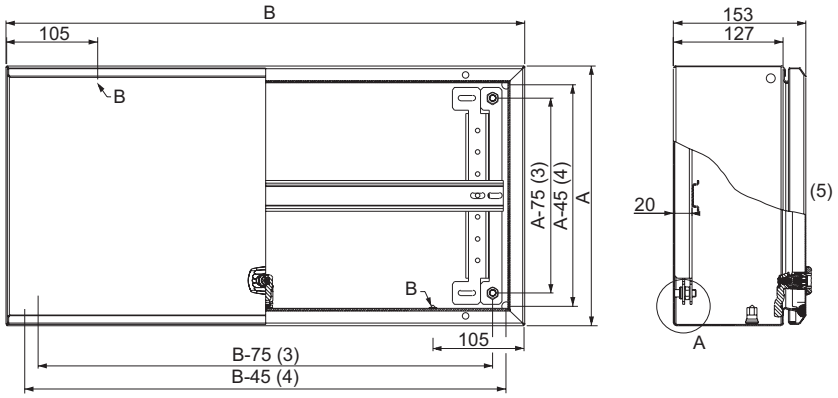
Cable-gland entries without connectors page **425**

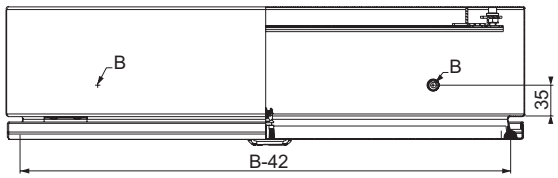
Viewing window page **473**

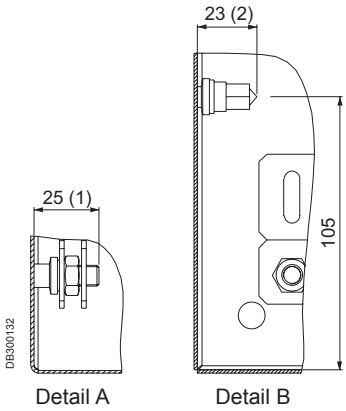
Dimensions

A: Enclosure height
B: Enclosure width
C: Enclosure depth

(1) With ladder mounting plate installed.
(2) M6 x 17.5 mm earthing stud.
(3) Stud centre-to-centre distance.
(4) Centre-to-centre distance of the holes for direct fixing.
(5) Drop-leaf door.







The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.

See also the accessories

Equipment mounting plate page **324**

Accessories for mounting plate page **330**

Cable-management accessories page **446**

The ideal coupling enclosure with FL21 cut-out

Introduction

Coupling enclosure, depth 170 mm, with plain door, for equipping with terminals. Equipped with a plain door without drop-leaf opening. Delivered without cable-gland plate.
Selection guide, page **24**.

Technical characteristics

- Protection degree: IP 65 (with membrane mounted).
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

Body
Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Wall mounting directly or by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 shouldered backstuds.
- Body with FL21-type cable-gland opening on the bottom of the enclosure (blanking plate ref. **NSYAECPFLBP** to be ordered separately).
- FL21 membranes, page **424**.

Door
- Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 120°.
- Door opening to more than 120° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).
- Maximum acceptable load on the door: 50 kg/m^2.
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories
The terminal enclosure, with a depth of 170 mm, can be equipped:
- With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds.
- With a symmetrical rail to be installed on the rails.
- With a 6-mm^2 earth connection to be placed between the body and the door.
- See page **74**.

It can also be equipped with a plain mounting plate, see page **324**.

This range is completed by the Spacial S3DB and Spacial S57 offer.

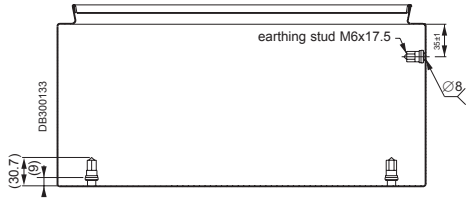
See also the accessories

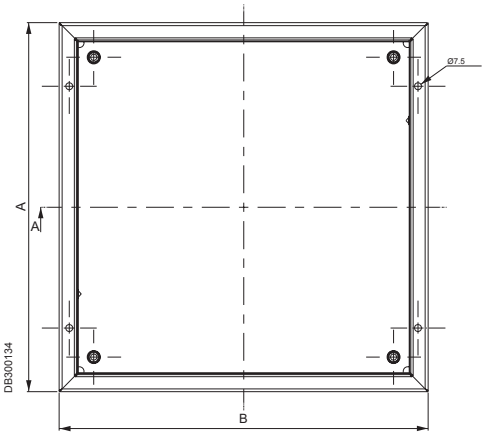
Fixing lugs for the earthing strip page **480**

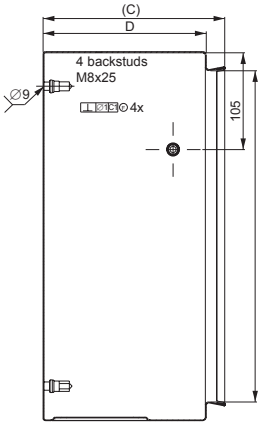
Cable-gland entries without connectors page **425**

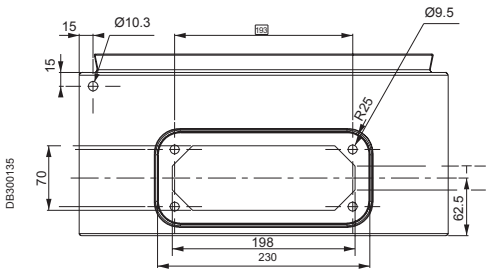
Viewing window page **473**

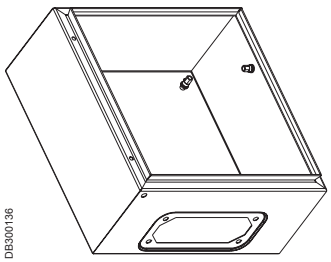
Dimensions











See also
the accessories

FL21-type membranes
page **424**

Seismic

PB501885

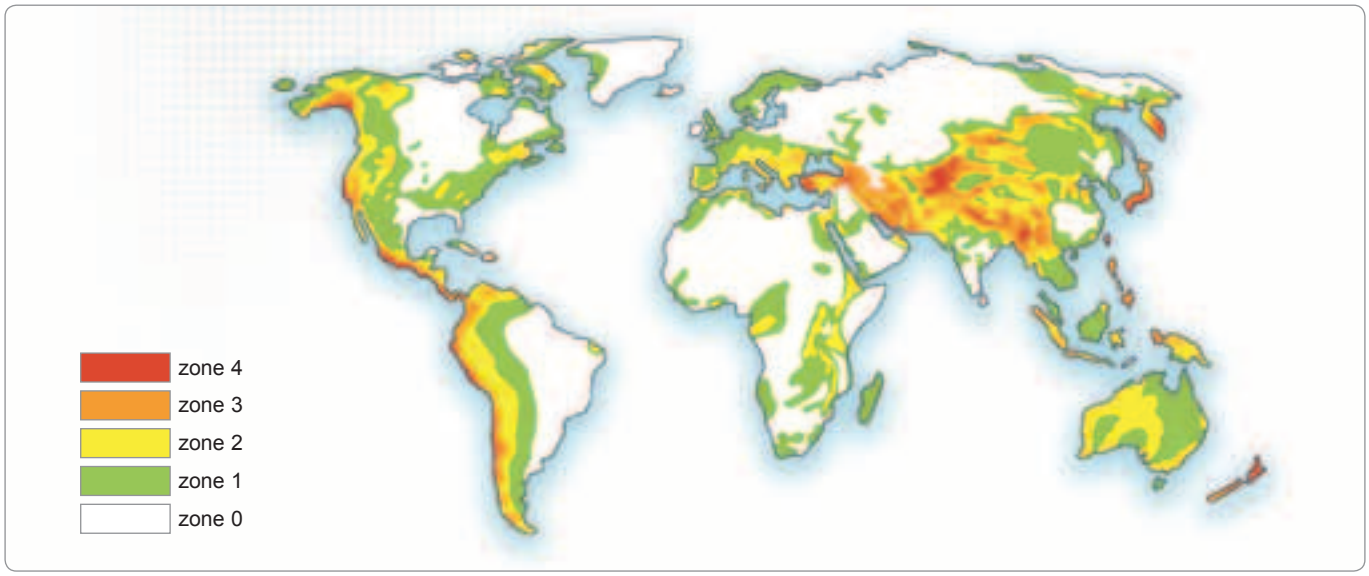
Seismic
Contents

Main characteristics	**606**
Standard Spacial SF	**607**
Spacial SF 5G	**609**

Seismic application
Main characteristics

General overview

Around the world can be found different zones with a specific seismic risk.
These zones have been classified according to the **Uniform Building Code (UBC).**



PB501884

Spacial SF seismic solutions

Schneider Electric offers a range of LV earthquake resistant floor-standing switchboards. The Spacial range is among these, with an answer to each type of project for different seismic risk zones.

From weak to strong earthquakes:
- Automation & Control switchboards.
  The standard Spacial SF with dimensions 2000 H x 800 W x 600 D has been tested to guarantee the right performance on seismic risk up to UBC zone 3.
- Industrial 19" Electronic applications.
  Standard Spacial SF with dimensions 2000 H x 600 W x 800 D and with a 19" fixed rack configuration suitable for seismic risk up to UBC zone 3.
- LV power distribution up to 3200A.
  Standard Spacial SFP is tested to perform up to UBC zone 3.

For very strong earthquakes:
- Automation & Control and 19" rack applications.
  Spacial SF 5G performs up to UBC zone 4 thanks to its reinforced structure, special panel fixation and locking system.
- LV power distribution up to 3200 A.
  Spacial SFP 5G performs up to UBC zone 4, also thanks to its reinforce structure, special panel fixation and locking system.

All tests have been performed according to the following technical regulations:
- EDF CRT 91 C 112 00, Nuclear. EDF (French Electricity Board) technical specification.
- IEC 61587-2, 60917 & 60297-2.

Weak to Strong			Very Strong	
Spacial SF (2000 x 800 x 600)	Spacial SF 19" (2000 x 800 x 600)	Spacial SFP	Spacial SF 5G	Spacial SFP 5G
OK	OK	OK	OK	OK

IEC 60068-3-3 Ground aceleration reference	Seismic characteristics				
	General description	g m/s	Richter scale magnitude	UBC Zone	MSK Intensity**
AG2	Intensity from weak to average	2	> 5.5	0 1	> VIII
AG3	Intensity from average to strong	3	5.5 to 7.0	2-3	VIII to IX
AG5	Intensity from strong to very strong	5	> 7.0	4	> IX

* Aproximate value of the Uniform Building Code Zone.
** MSK (Medvedev-Sponheuer-Kamik corresponding to the intensity scale Mercalli modified).

Seismic application
Standard Spacial SF

Standard Spacial SF

Two configuration of the standard Spacial SF have been tested:
- Automation & Control configuration.
  150 kg dummy load installed on mounting plate and homogeneously distributed, according to IEC 61587-2.
- 19" fixed rack configuration.
  150 kg dummy load installed on a 19" fixed rack, homogeneously distributed, according to IEC 61587-2.

	Nominal dimensions			Additional dummy load tested (kg)	Plain door		Side panels	Plinth 100 (mm)		Mounting plate	19" Rack
	Height	Width	Depth		With mounting plate	Without mounting plate		Front panel	Side panel		
A&C Configuration	2000	800	600	150	**NSYSF20860P**	**NSYSF20860**	**NSY2SP206**	**NSYSPF8100**	**NSYSPS6100**	**NSYMP208**	-
19" Configuration	2000	600	800	150	-	**NSYSF20680**	**NSY2SP208**	**NSYSPF6100**	**NSYSPS8100**	-	**NSYRCK42**

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	60% of the ensemble response spectrum: 3 g peak and 0.6 g ZPA*
AS1170 Australia	Soil Type: Ee / Floor zero
EAK 2000 Greece	Soil Type: D (delta) Seismic importance factor: γi = 0.85 Ground acceleration factor: α = 0.12 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: $\beta 0$ = 2.5
ENDESA 1986	Seismic Category A 5% damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	Soil type: S4 5% damping Ground acceleration factor A = 0.15 Behaviour factor = 2 Quality factor z = 1.35
Gore GR 63	5% damping Zone 3
Turkish Seismic Code 2009	Site Class: Z4 5% damping Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market standardl MSK (Mercalli) intensity 9, level 2: envelope epectra CRT91C11200

* ZPA - Zero Period Acceleration.

Seismic application
Standard Spacial SFP

Standard Spacial SFP

Two configuration of standard Spacial SFP have been tested. Functional systems have been installed on the switchboard and checked at the end of the test to verify that there was no damage. The 2 tested configurations are:
- 1600 A configuration.
- 3200 A configuration.

		Nominal dimensions			Additional dummy load (kg)	Plain door	Side panels
		Height	Width	Depth			
1600 A configuration	Spacial SFP	2000	700	500	350	NSYSFP20750	NSY2SP205
	Busbar duct	2000	300	500	350	NSYSF20350	NSY2SP205
3200 A configuration	Spacial SFP	2000	700	800	450	NSYSF20780	NSY2SP208
	Busbar duct	2000	300	800	450	NSYSF20380	NSY2SP208

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	71% of the ensemble response spectrum: 3.5 g peak and 0.71 g ZPA*
AS1170 Australia	Soil Type: Ee / Floor zero
EAK 2000 Greece	Soil Type: D (delta) Seismic importance factor: $\gamma i = 0.85$ Ground acceleration factor: $\alpha = 0.12$ Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: $\beta 0 = 2.5$
ENDESA 1986	Seismic Category A 5% damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	Soil type: S4 5% damping Ground acceleration factor A = 0.15 Behaviour factor = 2 Quality factor Q = 1.35
Gore GR 63	5% damping Zone 3
Turkish Seismic Code 2009	Site Class: Z4 5% damping Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market standardl MSK (Mercalli) intensity 9, level 2: envelope epectra CRT91C11200

* ZPA - Zero Period Acceleration.

Seismic application
Spacial SF 5G

Spacial SF 5G & Spacial SFP 5G

Spacial SF 5G and Spacial SFP 5G have been designed to withstand earthquakes up to UBC zone 4. The two tested configurations, automation & control and LV power distribution, enable it to be certified for nuclear applications.

This new design is based on the following principles:

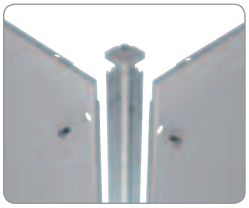
Reinforced cross

PB501885

- Two reinforced crosses guarantee the mechanical withstand of the structure.

Panel fixations

PB501886



- Fixation systems that avoid loosening of screws.

Security locking system

PB501887

PB501888

- EDF-certified seismic locking system.
- Specific bars and handle to avoid accidental door opening under severe vibration conditions.

Reinforced plinths

PB501889

- New monoblock reinforced plinths.

Seismic application
Spacial SF 5G

Spacial SF 5G

Same characteristics as the Spacial SF but with the upgrades already mentioned.

	Nominal dimensions			Additional dummy load tested (kg)	Plain door		Side panels	Plinth 100 (mm)	Mounting plate*	19" Rack*
	Height	Width	Depth		With mounting plate	With out mounting plate				
A&C Configuration	2000	800	600	150	-	NSYSF5G20860	NSY5G2SP206	NSYS5GPC86	NSYMP208	-
19" Configuration	2000	600	800	150	-	NSYSF5G20680	NSY5G2SP208	NSYS5GPC68	-	NSYRCK42

* See reinforcement kits for Spacial 5G.

Spacial SFP 5G

Same characteristics as the Spacial SFP but with the upgrades already mentioned.

		Nominal dimensions			Additional dummy load (kg)	Plain door	Side panels	Plinth 100 (mm)
		Height	Width	Depth				
1600 A configuration	Spacial SFP	2000	700	500	350	NSYSFP5G20750	NSY5G2SP205	NSYS5GPC75
	Busbar duct	2000	300	500	350	NSYSF5G20350	NSY5G2SP205	NSYS5GPC35
3200 A configuration	Spacial SFP	2000	700	800	450	NSYSF5G20780	NSY5G2SP208	NSYS5GPC78
	Busbar duct	2000	300	800	450	NSYSF5G20380	NSY5G2SP208	NSYS5GPC38

Important: Spacial SFP 5G 300 mm width for busbar duct purpose is not compatible with Spacial SF 5G.

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	General response spectrum: - ZPA = 1 g in horizontal & maximum aceleration = 5 g. - ZPA = 0.8 g in vertical & maximum aceleration = 4 g.
AS1170 Australie	All type of soil class / Floor zero
EAK 2000 Greece	All type of soil class (delta) Seismic importance factor: $\gamma i = 1.3$ Ground acceleration factor: $\alpha = 0.36$ Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: $\beta 0 = 2.5$
ENDESA 1986	All seismic category Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All type of soil class Ground acceleration factor A = 0.36 Behaviour factor R = 2 Quality factor Q = 1.35
Gore GR 63	Zone 4 with a factor 0.8 for the vertical severity relating to the horizontal severity
Turkish Seismic Code 2009	All type of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK (Mercalli) intensity 9, level 2 Nuclear market: - MSK (Mercalli) intensity 9, level 0. - MSK (Mercalli) intensity 8, level 2.
IEEE 693	High Level

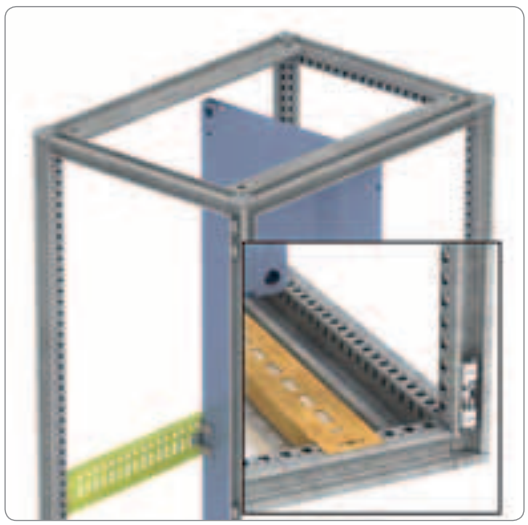
Seismic application
Spacial SF 5G

Reinforcement kits for Spacial SF 5G

In case the following mounting components are used inside the SF 5G:
- Plain mounting plates
- 19" fixed rack

then it is mandatory to mount the corresponding reinforcement kits, in order to guarantee safety and maximum performance of the enclosure and of the equipment installed inside.

PB502031



Plain mounting plate reinforcement kit

Kit for reinforcement of fixation between the plain mounting plate and structure.

Depth	Reference
600	**NSY5GSPK6**
800	**NSY5GSPK8**

Supply:
- 2 90 mm universal cross rails.
- 2 brackets for central fixation.
- 2 heavy cross rails & fixing elements.

PB502030

19" fixed rack reinforcement kit

Kit for reinforcement of fixation between 19" fixed rack and structure.
The purpose of this kit is to reinforce the 19" fixed rack.

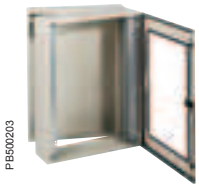
Depth	Reference
600	**NSY5GRCK42**

Supply:
- 2 90 mm universal cross rails.
- 4 brackets for upright support.
- 1 set of standard 42 units 19" fixed rack.
- Fixing elements.

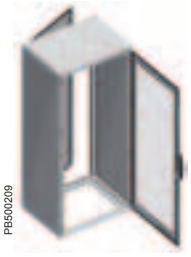
Electronic Applications

PB502203

Electronic Applications
Contents

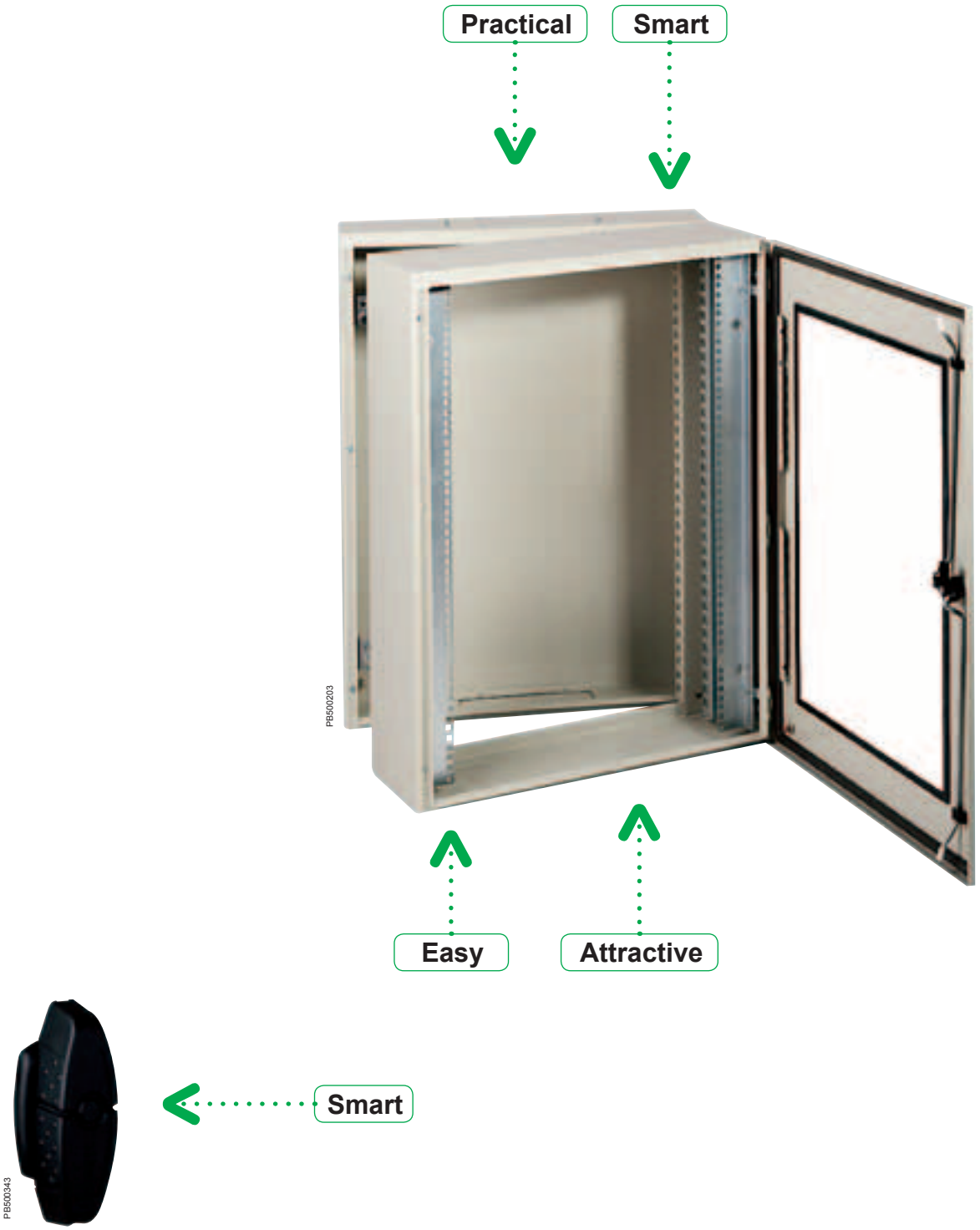


Spacial VDM 614



Spacial SF 624

The IP 66 19" steel enclosure is ideal for your application!



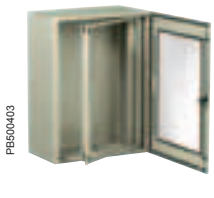
19" enclosure, IP 66

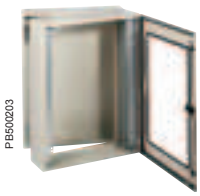
Smart:

Easily dismountable, captive hinges.

Easy:

Effortless door closing with flexible polyurethane gasket.





Enclosures equipped

Enclosures to be equipped

Choice:

1-body enclosure with swing rack: 5 references from 4 U to 16 U.
1-body enclosure with fixed rack:
5 references from 5 U to 17 U.
2-body enclosure: 10 references, 400 or 500 mm deep, from 5 U to 17 U.
All form inserts, many key locks.

Simplified control:

Pre-installed fixed or swing rack; earth connection placed between the door and the body; the enclosure is ready to use; the cardboard packaging can be reused after cabling.

Practical:

Cable-gland plates at top and bottom:
- on the rear part (2-body enclosure),
- on the body (1-body enclosure).

Smart:

Locking handle delivered with the provisional (partial engagement) or final (full engagement) enclosure.
Can also be used to loosen the caps protecting the studs when painting.

Attractive:

Chamfered door, plasma welding, polyester paint, tinted Securit® glass, ergonomic bi-material handle (optional).

And also...

Practical:

Large range of accessories, reusable packaging.

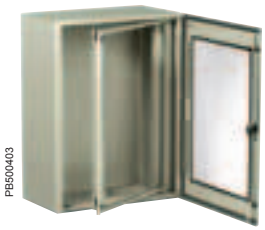
Light and resistant:

Sheet-steel enclosure, cross-shaped structure, before folding.

Certification:

According to standard IEC 62208.

19" enclosure, IP 66
Introduction and selection guides


PB500403

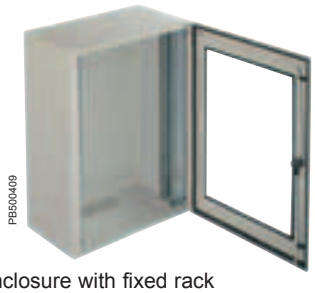
PB500203

Spacial VDM 19" enclosure steel

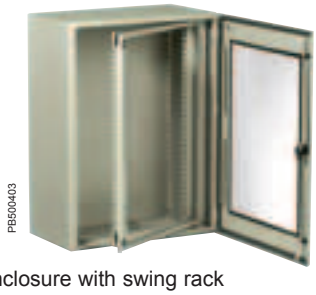
The offer of VDM 19" steel enclosures, for electronics and networks, consists of 2 ranges:
- 1-body enclosure, 400 mm deep, with fixed or swing rack.
- 2-body enclosure, 380 and 480 mm deep.

Technical characteristics

- Structured finish, polyester powder, RAL 7035 grey colour. Other colours, please consult us.
- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 08.
- Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm.
- Transparent door, Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm.
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- 6 mm^2 earth connection placed between the door and the body of the enclosure.
- Wall mounting by means of fixing lugs (to be ordered separately).
- Special installation: please consult us.


PB500409

1-body enclosure with fixed rack


PB500403

1-body enclosure with swing rack

1-body enclosure, 400 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	400	**NSYVDM5U4F**
8	400	600	400	**NSYVDM8U4F**
10	500	600	400	**NSYVDM10U4F**
14	700	600	400	**NSYVDM14U4F**
17	800	600	400	**NSYVDM17U4F**

1-body enclosure, 400 mm deep, with swing rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
4	300	600	400	**NSYVDM4U4P**
7	400	600	400	**NSYVDM7U4P**
9	500	600	400	**NSYVDM9U4P**
13	700	600	400	**NSYVDM13U4P**
16	800	600	400	**NSYVDM16U4P**

- These enclosures are available equipped with a 19" swing rack or a 19" fixed rack.
- Enclosure in 2 pieces: body + door.
- Heights: 4, 7, 9, 13 and 16 U with a swing rack and 5, 8, 10, 14 and 17 U with a fixed rack.
- Cable-gland plate at the bottom of the enclosure
- Fixed rack depth-adjustable in steps of 25 mm using the step slides.
- Maximum load: 3 kg per unit.

19" enclosure, IP 66
Introduction and selection guides

Spacial VDM 2-body 19" enclosure steel

Rear

- Depth: 150 mm.
- Internal attachment point for fixing various supports.
- Hinges and locking system with the body.
- Cable-gland plate at the top and bottom.

Body

- Usable depth of 183 or 283 mm.
- Two 19" uprights made from treated steel, installed 65 mm back from the front panel.
- Height: 5, 8, 10, 14 and 17 U.
- Intermediate body installed on the rear with 120° hinge.
- Maximum load: 2 kg per unit.

2-body enclosure, 380 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	380	**NSYVD2M5U4**
8	400	600	380	**NSYVD2M8U4**
10	500	600	380	**NSYVD2M10U4**
14	700	600	380	**NSYVD2M14U4**
17	800	600	380	**NSYVD2M17U4**

2-body enclosure, 480 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	480	**NSYVD2M5U5**
8	400	600	480	**NSYVD2M8U5**
10	500	600	480	**NSYVD2M10U5**
14	700	600	480	**NSYVD2M14U5**
17	800	600	480	**NSYVD2M17U5**

See also the accessories

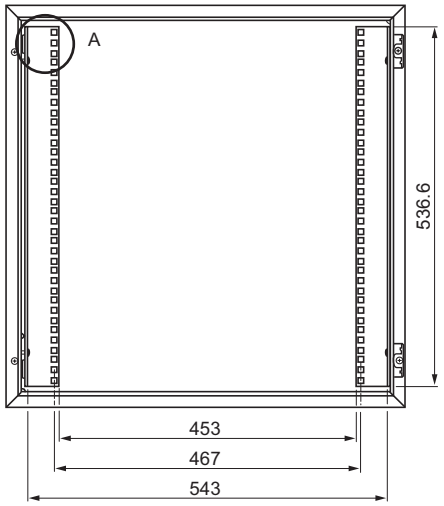
Accessories for mounting plates page **330**

Cable-gland entries without connectors page **425**

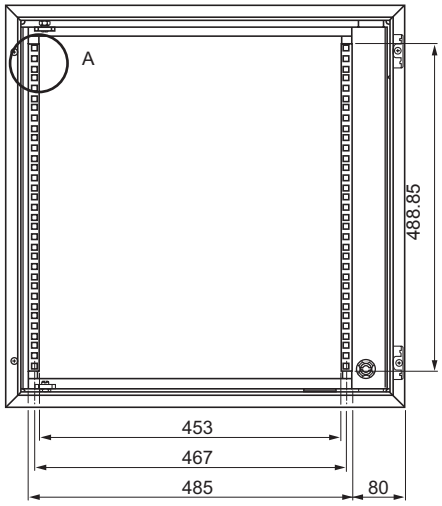
Cable-management accessories page **446**

19" enclosure, IP 66
Dimensions

Fixed chassis

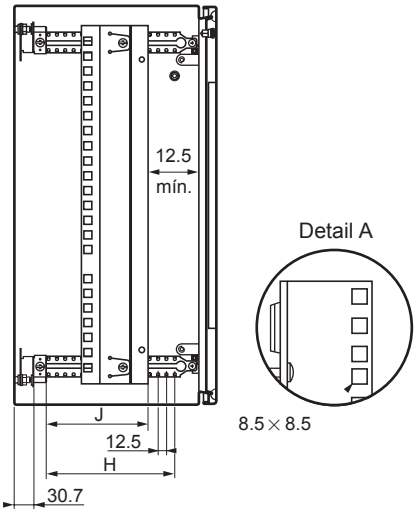


Swing chassis

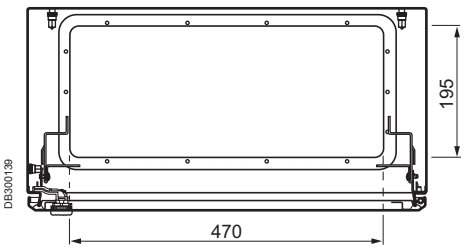


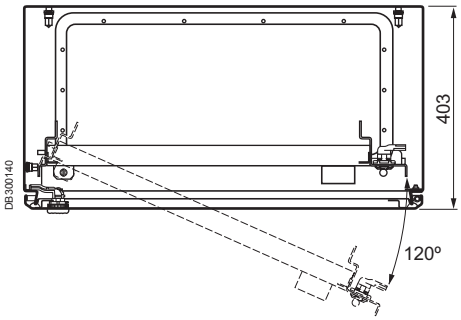
Fixed chassis mounted on the step slides

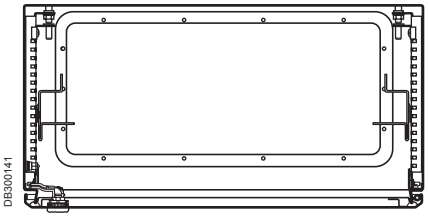
Lateral view



Top view







Cable-gland plate 495 x 220 mm.

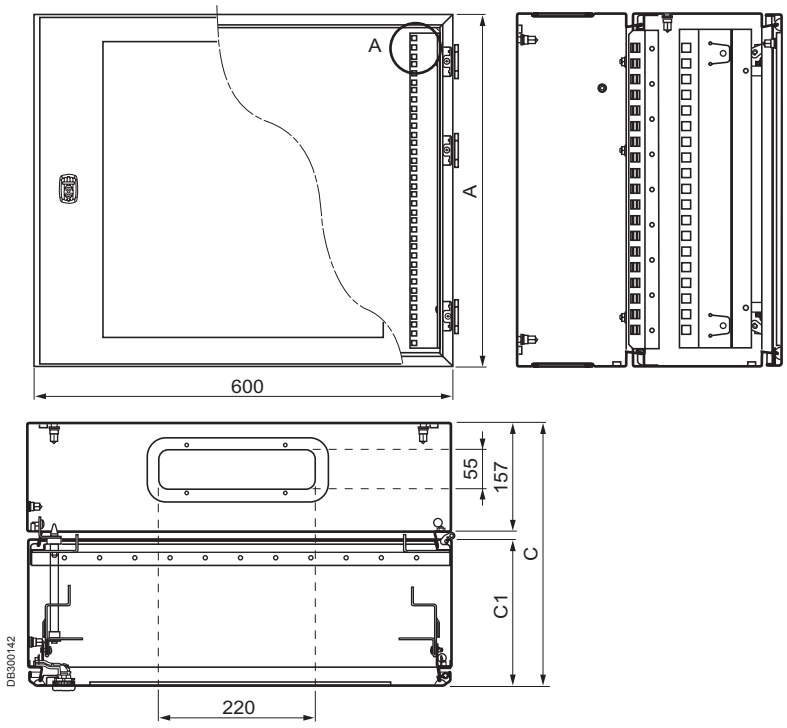
H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

Enclosures dimension			Fixed chassis	Swing chassis	Unit number	D	E	F	G
Height (A)	Width (B)	Depth (C)							
400	600	250/300	**NSYVDM8UF**		8	-	359	188/238	61
600	600	250/300	**NSYVDM12UF**		12	-	537	188/238	61
800	600	250/300/400	**NSYVDM17UF**		17	-	759	188/238/338	61
1000	600	250/300	**NSYVDM21UF**		21	-	937	188/238	61
400	600	250/300		**NSYVDM7UP**	7	342	311	188/238	59
600	600	250/300		**NSYVDM11UP**	11	542	489	188/238	59
800	600	250/300/400		**NSYVDM16UP**	16	742	711	188/238/338	59
1000	600	250/300		**NSYVDM20UP**	20	942	889	188/238	59
1000	800	250/300/400		**NSYVDM20U8P**	20	942	889	188/238/338	59
1200	800	300/400		**NSYVDM20U8P**	25	1142	1111	238/338	59

Cable-gland plate G type dimensions 495 x 220 mm.

19" enclosure, IP 66
Dimensions

2-body 19" enclosure

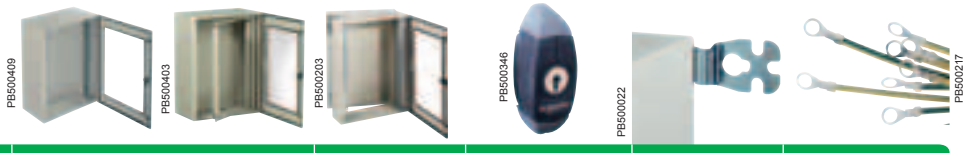


A (mm)	C (mm)	C1 (mm)	Reference
300	373	183	**NSYVD2M5U4**
400	373	183	**NSYVD2M5U5**
500	373	183	**NSYVD2M8U4**
700	373	183	**NSYVD2M8U5**
800	373	183	**NSYVD2M10U4**
300	473	283	**NSYVD2M10U5**
400	473	283	**NSYVD2M14U4**
500	473	283	**NSYVD2M14U5**
700	473	283	**NSYVD2M17U4**
800	473	283	**NSYVD2M17U5**

Cable-gland plate B type dimensions 245 x 80 mm.

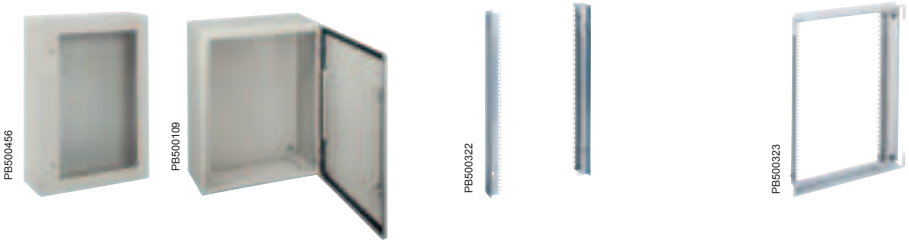
19" enclosure, IP 66
Selection guide

Steel VDM enclosure and accessories



Number of U	External dimensions (mm)			1 body		2 bodies	Handle with key nº 405	Wall-fixing lugs	Earthing kit
	Height	Width	Depth	Fixed rack	Swing rack	Fixed rack			
4	300	600	400	-	NSYVDM4U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
5	300	600	400	NSYVDM5U4F	-	NSYVD2M5U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
5	300	600	500	-	-	NSYVD2M5U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
7	400	600	400	-	NSYVDM7U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
8	400	600	400	NSYVDM8U4F	-	NSYVD2M8U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
8	400	600	500	-	-	NSYVD2M8U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
9	500	600	400	-	NSYVDM9U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
10	500	600	400	NSYVDM10U4F	-	NSYVD2M10U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
10	500	600	500	-	-	NSYVD2M10U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
13	700	600	400	-	NSYVDM13U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
14	700	600	400	NSYVDM14U4F	-	NSYVD2M14U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
14	700	600	500	-	-	NSYVD2M14U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
16	800	600	400	-	NSYVDM16U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
17	800	600	400	NSYVDM17U4F	-	NSYVD2M17U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
17	800	600	500	-	-	NSYVD2M17U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8

Selection guide for CRN universal enclosures to be equipped with 19" fixed or swing rack

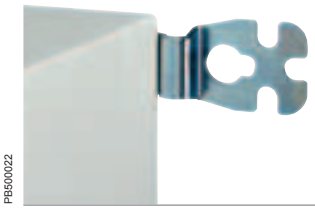


Enclosure dimensions (mm)			Reference of the empty enclosure		Fixed rack (1)		Swing rack (1)	
Height	Width	Depth	Glazed door	Plain door	Reference	Number of U	Reference	Number of U
400	600	250	NSYCRN46250T	NSYCRN46250	NSYVDM8UF	8	NSYVDM7UP	7
400	600	300	NSYCRN46300T	NSYCRN46300	NSYVDM8UF	8	NSYVDM7UP	7
600	600	200	NSYCRN66200T	NSYCRN66200	NSYVDM12UF	12	NSYVDM11UP	11
600	600	250	NSYCRN66250T	NSYCRN66250	NSYVDM12UF	12	NSYVDM11UP	11
600	600	300	NSYCRN66300T	NSYCRN66300	NSYVDM12UF	12	NSYVDM11UP	11
800	600	200	NSYCRN86200T	NSYCRN86200	NSYVDM17UF	17	NSYVDM16UP	16
800	600	250	NSYCRN86250T	NSYCRN86250	NSYVDM17UF	17	NSYVDM16UP	16
800	600	300	NSYCRN86300T	NSYCRN86300	NSYVDM17UF	17	NSYVDM16UP	16
800	600	400	NSYCRNG86400T	NSYCRNG86400	NSYVDM17UF	17	NSYVDM16UP	16
1000	600	250	NSYCRN106250T	NSYCRN106250	NSYVDM21UF	21	NSYVDM20UP	20
1000	600	300	NSYCRN106300T	NSYCRN106300	NSYVDM21UF	21	NSYVDM20UP	20
1000	600	400	NSYCRNG106400T	NSYCRNG106400	NSYVDM21UF	21	NSYVDM20UP	20
1000	800	250	NSYCRN108250T	NSYCRN108250	-	-	NSYVDM20U8P	20
1000	800	300	NSYCRN108300T	NSYCRN108300	-	-	NSYVDM20U8P	20
1000	800	400	NSYCRNG108400T	NSYCRNG108400	-	-	NSYVDM20U8P	20
1200	800	300	NSYCRNG128300T	NSYCRNG128300	-	-	NSYVDM25U8P	25
1200	800	400	NSYCRNG128400T	NSYCRNG128400	-	-	NSYVDM25U8P	25

(1) The racks are to be ordered separately.

Main accessories
Selection guide

Main accessories for VDM and CRN 19" enclosure
Composition accessories


PB500022

Fixing lugs

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Post-fixing device

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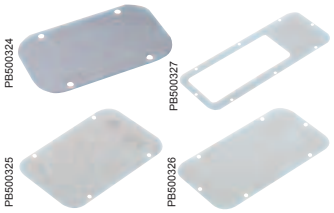
Cable-entry accessories


PB500324
PB500327
PB500325
PB500326

Cable-gland plates for Spacial CRN enclosure

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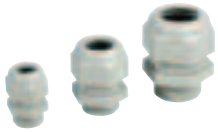
PB500099

ISO cable glands

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Multiple cable entry

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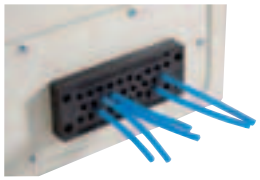
PB500023

Multiple cable entry

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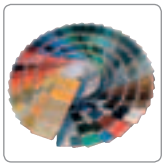
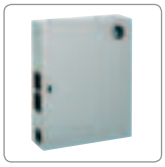
430

Customised service: All standard dimensions from our catalogue on request and more...

Configured


PB501688
Paints


PB500359
Holes & Cutouts

PB501690
Mounting

PB501692
Accessories

Main accessories
Selection guide

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Plinth-fixing device

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Canopy

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Door accessories

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Door retainer

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Door switch

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Door rails

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Earthing systems

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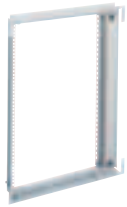
Mounting accessories


PB500323

19” fixed and swing racks

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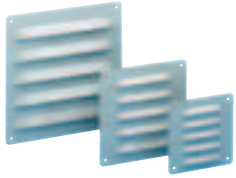
Thermal accessories


PB500769

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PB501639

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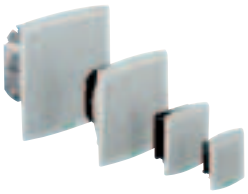
PB501021

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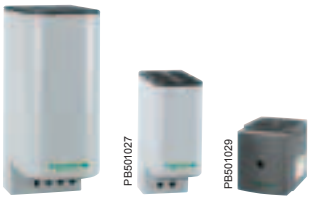
PB501028 PB501027 PB501029

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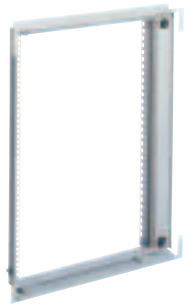
Mounting accessories
Installation accessories

19" fixed chassis for wall mounting enclosure IP 66

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Matérial: galvanized steel, thickness 20/10 mm.
- Maximum load: 3 kg per unit.
- Adjustable in depth by fixing on the step slides in accessories.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	8	**NSYVDM8UF**
600	600	12	**NSYVDM12UF**
800	600	17	**NSYVDM17UF**
1000	600	21	**NSYVDM21UF**



19" swing chassis for wall mounting enclosure IP 66

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: steel, textured epoxy-polyester powder paint colour grey RAL 7035.
- Maximum load: 3 kg per unit.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	7	**NSYVDM7UP**
600	600	11	**NSYVDM11UP**
800	600	16	**NSYVDM16UP**
1000	600	20	**NSYVDM20UP**
1000	800	20	**NSYVDM20U8P**
1200	800	25	**NSYVDM25U8P**

Electronic application

PB500209

Suitable metal enclosure for electronic applications

Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page **634**.

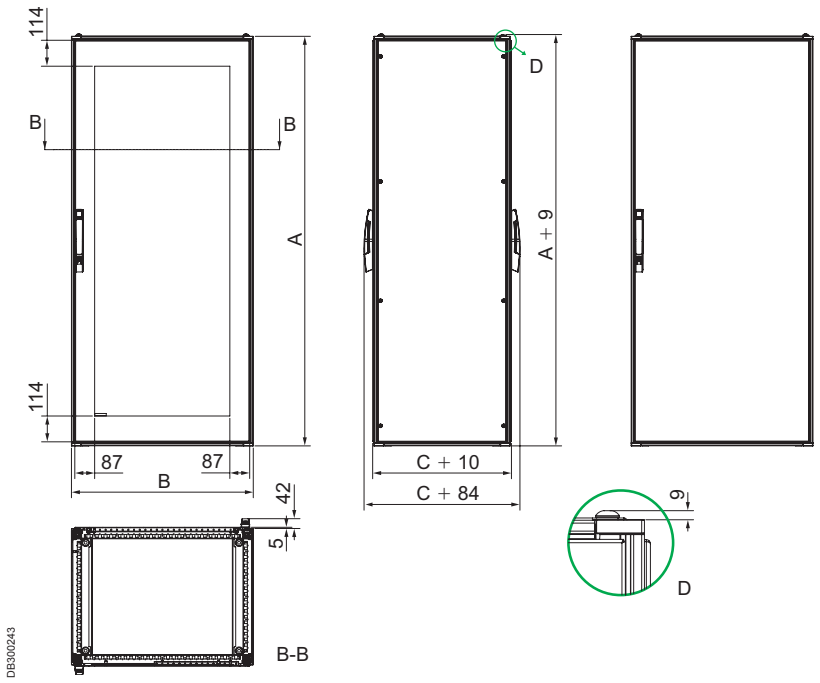
Composition

- Structure: top and bottom frame and vertical uprights.
- Transparent front door, made from sheet steel, painted with epoxy-polyester resin, textured RAL7035 grey, with Securit® glass.
- Plain rear door, made from sheet steel, painted with epoxy-polyester resin, textured RAL7035 grey:
- Standard locking system with handle and 5-mm double-bar insert.
- Removable roof.
- External fixing side panels, made from sheet steel, painted with epoxy-polyester resin, textured RAL 7035 grey, double folded to increase their rigidity with captive fixing screws that reduce installation time.
- In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.

Certifications

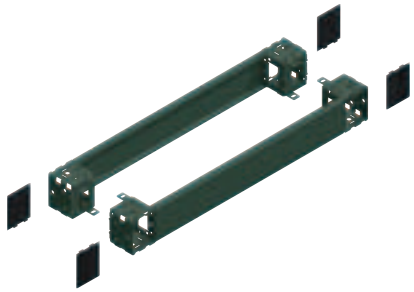
- BV, DNV, UL*, CUL.
  *1, 12, 12K.

Spacial SF electronic application enclosure dimensions (mm)			Reference
Height (A)	Width (B)	Depth (C)	
1200	600	600	**NSYSF12660E**
		800	**NSYSF12680E**
	800	600	**NSYSF12860E**
		800	**NSYSF12880E**
2000	600	600	**NSYSF20660E**
		800	**NSYSF20680E**
	800	600	**NSYSF20860E**
		800	**NSYSF20880E**
		1000	**NSYSF208100E**
2200	600	600	**NSYSF22660E**
		800	**NSYSF22680E**
		1000	**NSYSF226100E**
	800	600	**NSYSF22860E**
		800	**NSYSF22880E**
		1000	**NSYSF228100E**



DB300243

Electronic application
Composition accessories


PB500123

PB500124

Plinth

- See composition accessories: floor, page **129**.
- Model heights: 100 and 200 mm.

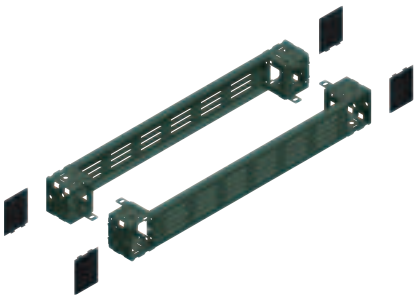
Front plinth

Supply:
– **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
– **Height 200 mm:** four corners, four panels (two front and two rear), four corner covers and fixing elements.

Plinth side panels

Supply:
– **Height 100 mm:** two side panels, four corner covers and fixing elements.
– **Height 200 mm:** four side panels (height of 100 mm, two for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Side panel plinth reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPF10200
800	600	NSYSPF8100	NSYSPF8200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPF10200

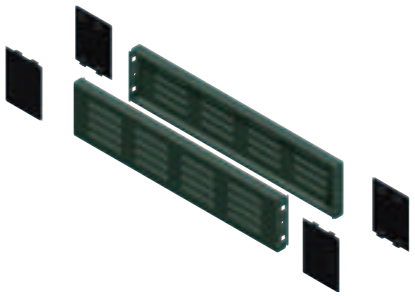

PB500563

Ventilated front plinth

Supply:
– **Height 100 mm:** four corners, two ventilated panels (front and rear), four corner covers and fixing elements.

Ventilated plinth side panels

Supply:
– **Height 100 mm:** two ventilated side panels, four corner covers and fixing elements.


PB500564

Spacial SF dimensions (mm)		Ventilated front plinth reference	Ventilated plinth side panel reference
Width	Depth	100 mm	
600	600	NSYSPFV6100	NSYSPV6100
	800		NSYSPV8100
800	600	NSYSPFV8100	NSYSPV6100
	800		NSYSPV8100

Electronic application
Composition accessories

Cable-gland plates

- See composition accessories: cable gland, page **142**.
- Models: plain plates, with one entry and two entries.

Plain cable-gland plate

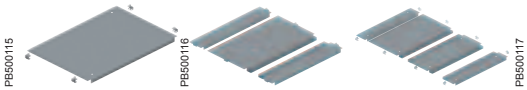
Supply: One plain plate and fixing elements.

Cable-gland plate with 1 entry

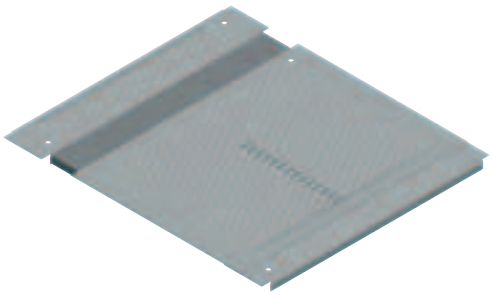
Supply: one plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, which guarantees good sealing, and fixing elements.

Cable-gland plate with 2 entries

Supply: one plate with two entries, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, which guarantees good sealing, and fixing elements.



Nominal dimensions (mm)		Reference		
Width	Depth	Plain	With 1 entry	With 2 entries
600	600	**NSYEC66**	**NSYEC661**	**NSYEC662**
	800	**NSYEC68**	**NSYEC681**	**NSYEC682**
	1000	**NSYEC610**	**NSYEC6101**	**NSYEC6102**
800	600	**NSYEC86**	**NSYEC861**	**NSYEC862**
	800	**NSYEC88**	**NSYEC881**	**NSYEC882**
	1000	**NSYEC810**	**NSYEC8101**	**NSYEC8102**


PB500674

Ventilated cable-gland plates

- Plates for cable entry from the bottom of the enclosure.
- Material: galvanised steel.
- Thickness: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).

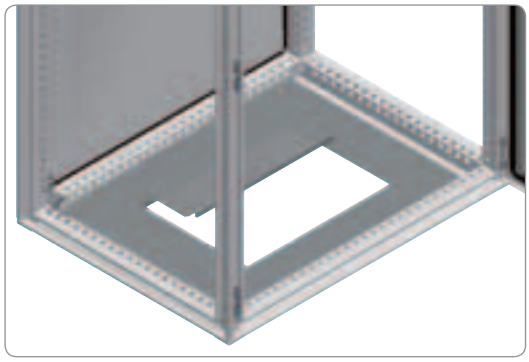
Supply: one ventilated plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.

Nominal dimensions (mm)		Reference
Width	Depth	
600	600	**NSYECV661**
	800	**NSYECV681**
	1000	**NSYECV6101**
800	600	**NSYECV861**
	800	**NSYECV881**
	1000	**NSYECV8101**

Electronic application
Composition accessories

Enclosure width 600 mm

Enclosure width 800 mm



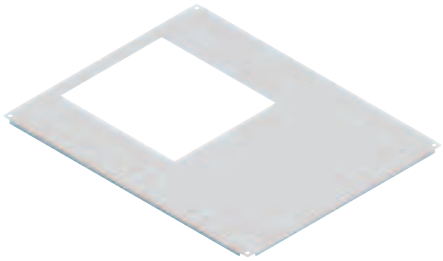
Cable-gland support for Actassi plates

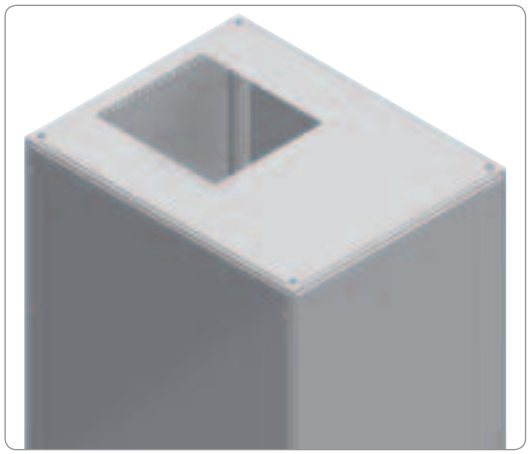
- Support for cable entry from the bottom of the enclosure.
- Allows the installation of Actassi cable-gland accessories.
- Material: galvanised steel.
- Thicknesses: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- The Actassi plates are fixed by C-shaped clips to the enclosures with a width of 600 mm, and by screws directly to the support in the enclosures with a width of 800 mm.

Supply:
– Enclosure width 600 mm: two plates and fixing elements.
– Enclosure width 800 mm: one support and fixing elements.

Nominal dimensions (mm)		Reference
Width	Depth	
600	600	**NSYCECS66**
	800	**NSYCECS68**
	1000	**NSYCECS610**
800	600	**NSYCECS86**
	800	**NSYCECS88**
	1000	**NSYCECS810**

Electronic application
Composition accessories


PB500678

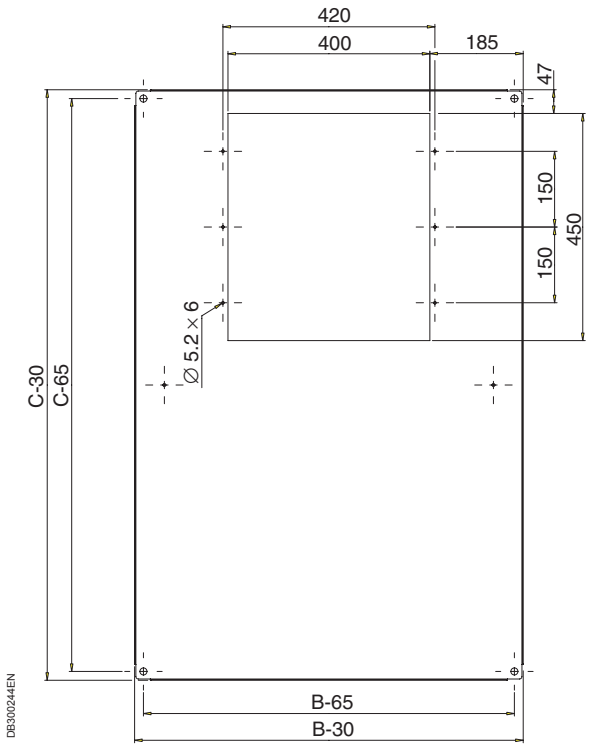

PB500679

Roof for Actassi plates

- Roof prepared for installing Actassi roof accessories.
- Suitable for enclosures with widths of 600 and 800 mm.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one roof with central cut-out and side pre-cuts (width 800 mm).

Spacial SF dimensions (mm)		Reference
Width (B)	Depth (C)	
800	600	**NSYSRSYS86**
	800	**NSYSRSYS88**
	1000	**NSYSRSYS810**



PB500680

Plain top roof plate

- Removable plate made from folded sheet steel.
- Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one plain top roof plate and fixing elements.

Reference
NSYTSPC450

Electronic application
Composition accessories

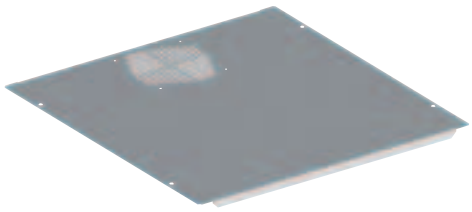
PB500681

Top roof plate with brush gasket

- Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush.
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable-gland plates.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one top roof plate with brush gasket and fixing elements.

Reference
NSYTSP450



PB500682

Cut-out top roof plate

- Removable plate made from folded sheet steel.
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, cable-gland plates and fans.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one cut-out top roof plate and fixing elements.

Reference
NSYTSPV450

PB500683

Roof plate elevators for aeration

- Columns with a height of 20 mm.
- Fixing between the roofplate and the roof.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).

Reference
NSYEX206

PB500684

Plain cable-gland plate

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

Supply: one plain cable-gland plate and fixing elements.

Reference
NSYEC440

Electronic application
Composition accessories

PB500685

Cable-gland plate with brush

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

Supply: one cable-gland plate with brush and fixing elements.

Reference
NSYECP440

PB500686

Self-ventilated cable-gland plate

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

Supply: one self-ventilated cable-gland plate and fixing elements.

Reference
NSYECAV440

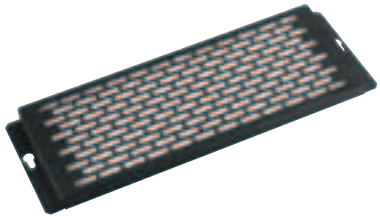
PB500687

Ventilation plate with cut-outs and with or without fans, 120 mm

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Supplied with 2 or 3 fans, each of which has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected.
- Sound level: 34 dB (A).

Supply: one cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements.

Description	Reference
No fans, 3 positions	NSYECVT3440
With 3 fans	NSYECVT3V440
No fans, 2 positions	NSYECVT2440
With 2 fans	NSYECVT2V440



PB500688

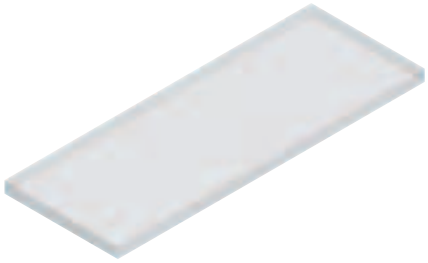
Cable-gland filter

- To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.

Supply: one mounting support, colour RAL 9011, and filter.

Reference
NSYFECVT440

Electronic application
Composition accessories



PB500689

Spare cable-gland filter

- Spare filter.

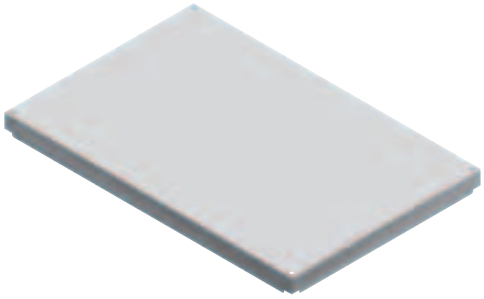
Supply: five units.

Reference
NSYCEFILS

Examples of possible combinations of cable-gland plates for the roof

Spacial SF dimensions (mm)		Combination 1	Combination 2
Width	Depth		
600/800	600	PB500690	PB500690
	800		
	1000		

Electronic application
Composition accessories



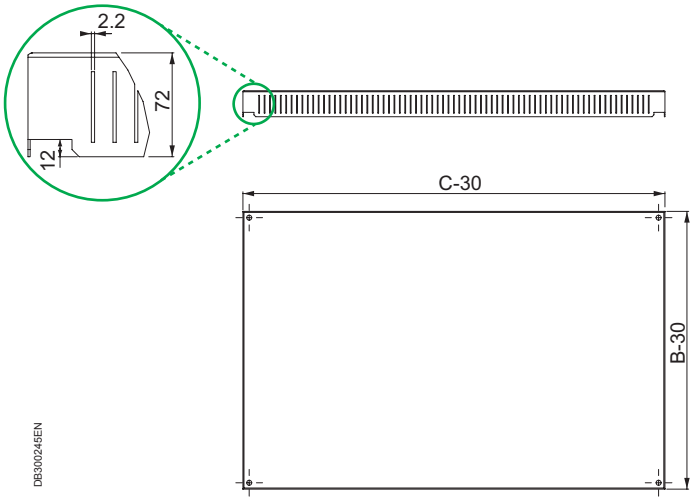
PB500596

Ventilated roof

- Roof for providing natural ventilation for the enclosure, with IP30 protection.
- Material: steel.
- Height: an extra 63 mm in relation to the structure.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one ventilated roof and fixing elements.

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	600	**NSYSVR606**
	800	**NSYSVR608**
800	600	**NSYSVR806**
	800	**NSYSVR808**



DB300245EN

Electronic application
Composition accessories

PB500691

PB500692

Ventilated door for 19" racks

- Door designed to achieve natural ventilation of the enclosure.
- Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks.
- Opening of 120°.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Standard locking system with handle and 5-mm double-bar insert.

Supply: one ventilated door for racks.

Nominal dimensions (mm)		Single ventilated door reference	Double ventilated door reference
Height	Width		
1200	600	**NSYPCVD126**	**NSYPCV2D126**
	800	**NSYPCVD128**	**NSYPCV2D128**
1400	800	**NSYPCVD148**	**NSYPCV2D148**
1600	800	**NSYPCVD168**	**NSYPCV2D168**
1800	800	**NSYPCVD188**	**NSYPCV2D188**
2000	600	**NSYPCVD206**	**NSYPCV2D206**
	800	**NSYPCVD208**	**NSYPCV2D208**
2200	600	**NSYPCVD226**	**NSYPCV2D226**
	800	**NSYPCVD228**	**NSYPCV2D228**

PB500693

Transparent door for off-centre racks

- Transparent door for installation in enclosures with off-centre 19" racks.
- Shows only the devices mounted on the 19" rack.
- Opening of 120°.
- Lock with handle and 5-mm double-bar insert, four locking points.

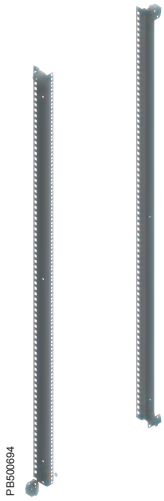
– 2 points, heights of 1200 and 1400 mm.
– 4 points, heights of 1600 to 2200 mm.

- Door stop profile.
- Opening to the right or left.
- Width of the glass 485 mm, off-centre by 77 mm.
- Material: steel and Securit® glass.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey, textured.

Supply: one off-centre transparent door.

Nominal dimensions (mm)		Reference
Height	Width	
1200	800	**NSYED128T**
1400		**NSYED148T**
1600		**NSYED168T**
1800		**NSYED188T**
2000		**NSYED208T**
2200		**NSYED228T**

Electronic application
Mounting accessories


PB500694

PB500503

19" fixed rack

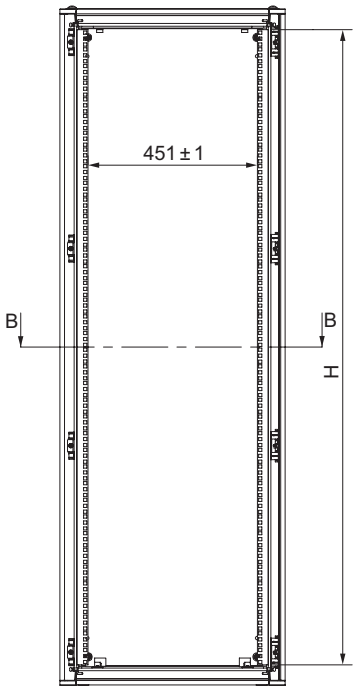
- Rack designed for installation in enclosures with a width of 600 mm.
- **Spacial SF:** Direct fixing on the structure of the enclosures.

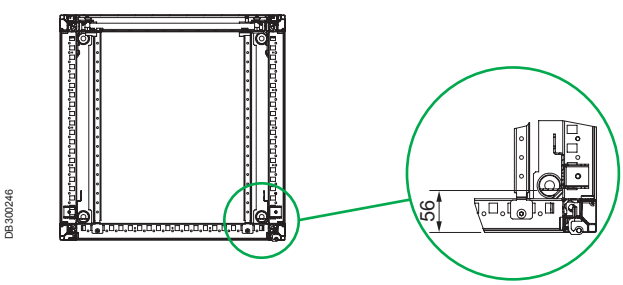
– For installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets.
– To reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**.

- **Spacial SM:** fixing on the top/bottom adjustment rails.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 400 kg.
- Material: zinc-coated steel.

Supply: two uprights and fixing elements.

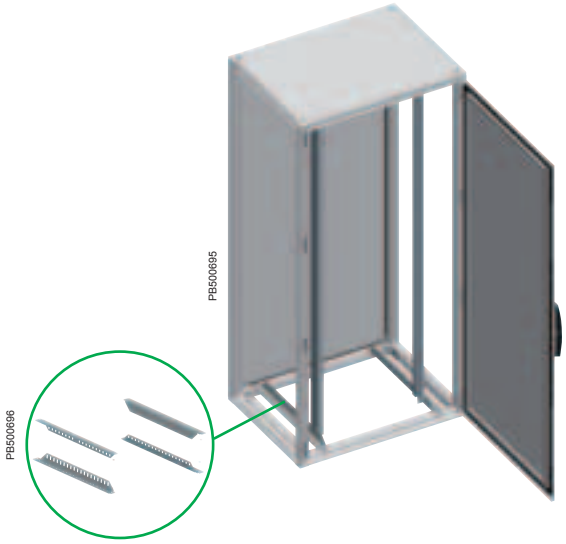
Nominal dimensions (mm) Height	No. of units (H)	Reference
1200	24	**NSYRCK24**
1400	29	**NSYRCK29**
1600	33	**NSYRCK33**
1800	38	**NSYRCK38**
2000	42	**NSYRCK42**
2200	47	**NSYRCK47**





DB300246

Electronic application
Mounting accessories

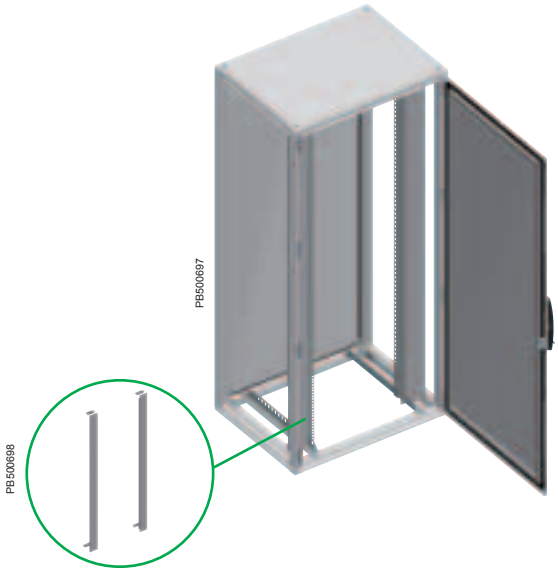


Support brackets for 19" fixed rack with a width of 800 mm

- Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm.
- They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm.
- Maximum load: 400 kg.
- Material: zinc-coated steel.

Supply: four support brackets and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
600	**NSYRCKS6**
800	**NSYRCKS8**
1000	**NSYRCKS10**

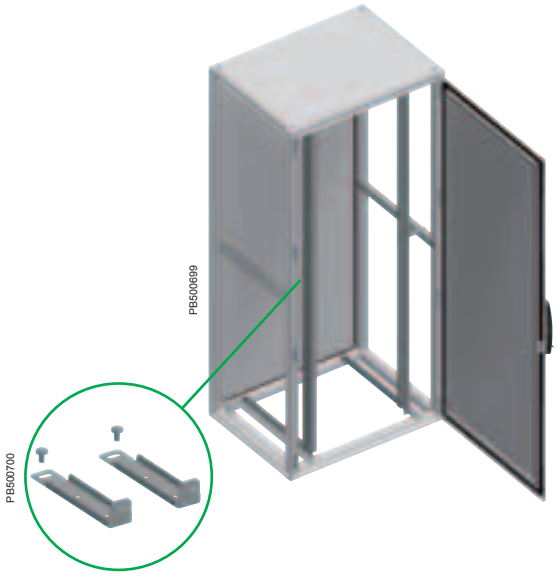


Side plates of the centred fixed rack for a width of 800 mm

- Side plates for coupling to the fixed rack in enclosures with a width of 800 mm.
- Direct installation on the rack by screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side plates and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width	
1200	800	**NSYRC12**
1400		**NSYRC14**
1600		**NSYRC16**
1800		**NSYRC18**
2000		**NSYRC20**
2200		**NSYRC22**



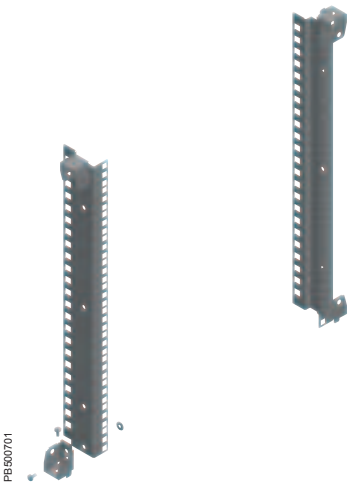
Central fixing kit

- To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm.
- Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page **360**.
- Material: zinc-coated steel.

Supply: two supports and fixing elements.

Reference
NSYRCK19KIT

Electronic application
Mounting accessories



Partial 19" fixed rack

- Rack designed for coupling in enclosures with a width of 600 mm.
- Installation options (**Spacial SF**):
– Installation at the top front of the enclosure, no cross rails needed (image 1).
– Depth adjustment of the cross rails: two cross rails need to be installed, see page **357**.
– For installation at any other height, four depth cross rails are required (image 2).
- Installation options (**Spacial SM**):
– At the top of the enclosure (image 1): install two depth cross rails, see cross rails on page **352**.
– At another height (image 2): install four cross rails for depthwise installation.
– Depthwise installation of the cross rails. Installation of the vertical adaptation profile and the 40-mm universal cross rail (1 row) in vertical position, in the position closest to the back.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 2 kg/U.
- Material: zinc-coated steel.

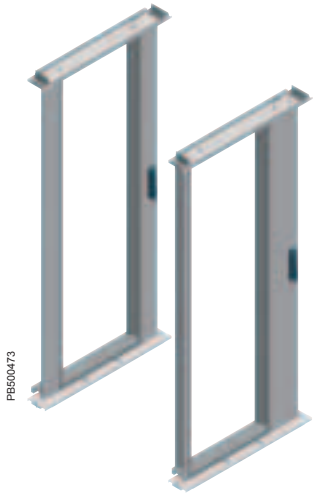
Supply: two uprights and fixing elements.

Rack height (mm)	No. of units	Reference
200	4	**NSYRCKP4**
400	8	**NSYRCKP8**
600	12	**NSYRCKP12**
800	17	**NSYRCKP17**
1000	21	**NSYRCKP21**
1200	26	**NSYRCKP26**

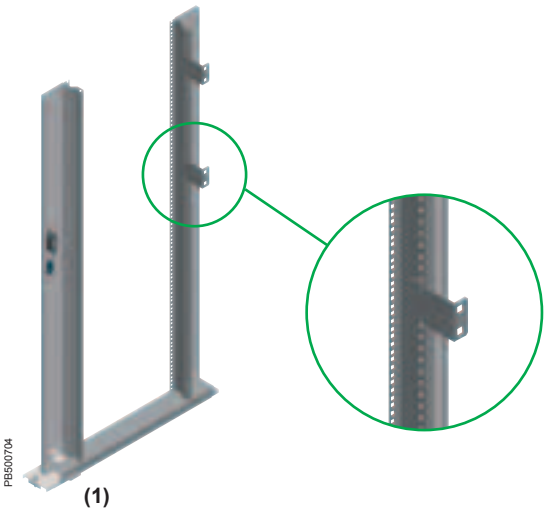
(1)

(2)

Electronic application
Mounting accessories


PB500473

PB500504


PB500704

(1)

19" swing racks for 800 mm enclosures

- Racks prepared for direct coupling to enclosures with a width of 800 mm.
- **Spacial SF:** fixing to the structure of the enclosure.
- **Spacial SM:** fixing on the top/bottom adjustment rails.
- Can be moved depthwise with a pitch of 25 mm.
- Maximum load: 3 kg/U.
- Maximum opening: 120° (possibility of opening to 180° using 180° hinges).
- Reversible opening direction: left/right.
- Handle opening system with ball lock.
- Maximum equipment installation depth:

Off-centre 19" swing rack:
– 120° = 470 mm.
– 180° = 425 mm.
Centred 19" swing rack:
– 120° = 390 mm.
– 180° = 345 mm.

- **Spacial SF:** multiple installation options in enclosures with a width of more than 800 mm (1000, 1200 or 1600 mm), by using universal, see page **357**.
- **Spacial SM:** option for installing the racks in enclosures with a width of 1600 mm by using universal, see page **357**.
- Components:

– Zinc-coated steel central structure.
– Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.

- The cross rail of the double-folded rack increases the installation options.
- Rear fixing uses self-tapping M6 screws, and side fixing is possible by means of quick-installation accessories (image 1).
- Lateral adjustment is possible with the rack installed and loaded.

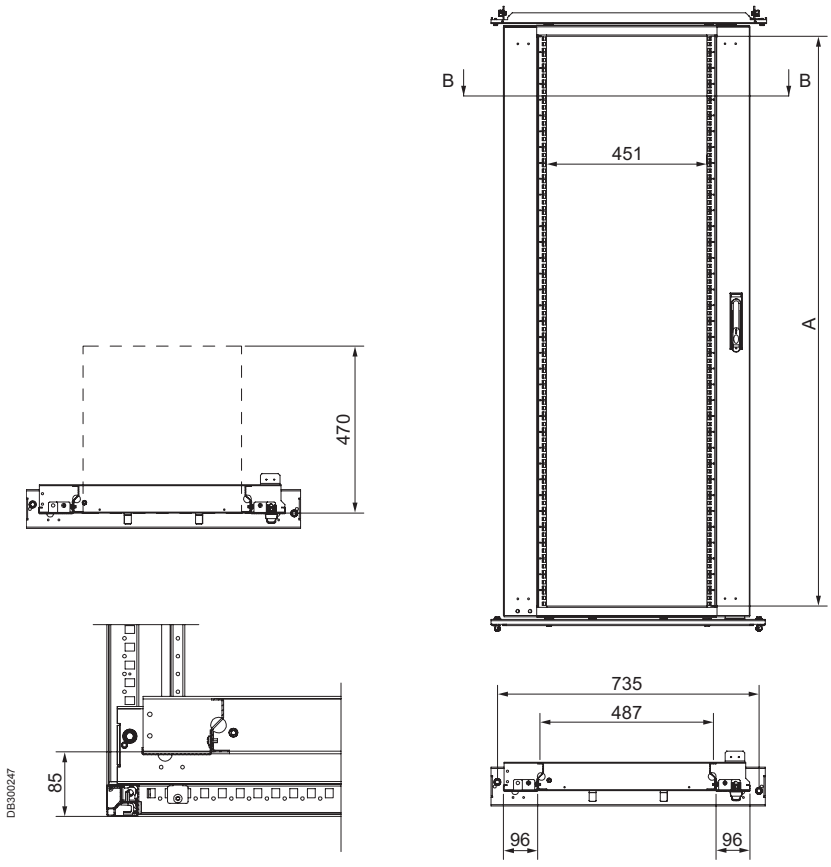
Supply:
– Off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side lid with ball-lock handle and fixing elements.
– Centred 19" swing rack: swing rack, 800-mm swing rack supports, side plates with ball-lock handle and fixing elements.

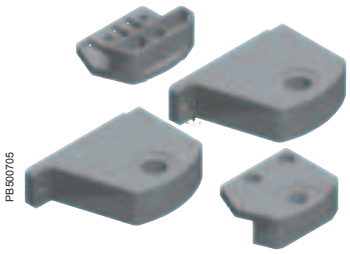
Nominal dimensions (mm)		No. of units	Off-centre 19" hinged rack reference	Centred 19" hinged rack reference
Height (A)	Width (B)			
1400	800	27	**NSYRSW27**	**NSYRSWC27**
1600		31	**NSYRSW31**	**NSYRSWC31**
1800		36	**NSYRSW36**	**NSYRSWC36**
2000		40	**NSYRSW40**	**NSYRSWC40**
2200		45	**NSYRSW45**	**NSYRSWC45**

> Advantage:

It is possible to adjust the height with the rack installed and loaded.

Electronic application
Mounting accessories



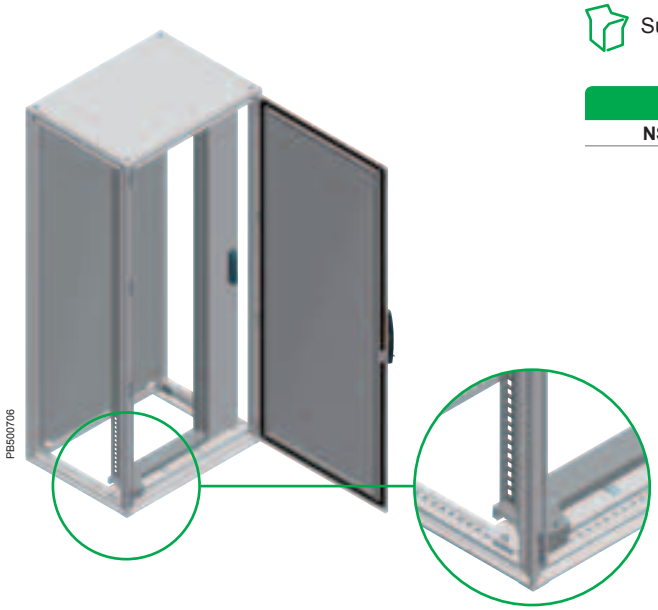


180° hinge

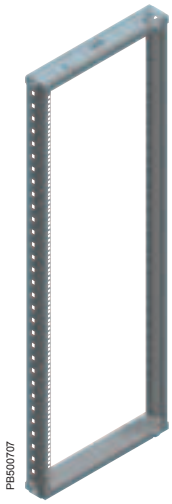
- Hinge for installation on centred and off-centre 19" swing racks.
- Allows the swing rack to be opened to 180°.
- Fixing by M8 screws directly to the swing rack.
- Maximum equipment installation depth:
  – Off-centre 19" swing rack: 425 mm.
  – Centred 19" swing rack: 345 mm.
- Material: zamak 5.

Supply: two hinges and fixing elements.

Reference
NSYRSWH180



Electronic application
Mounting accessories


PB500707

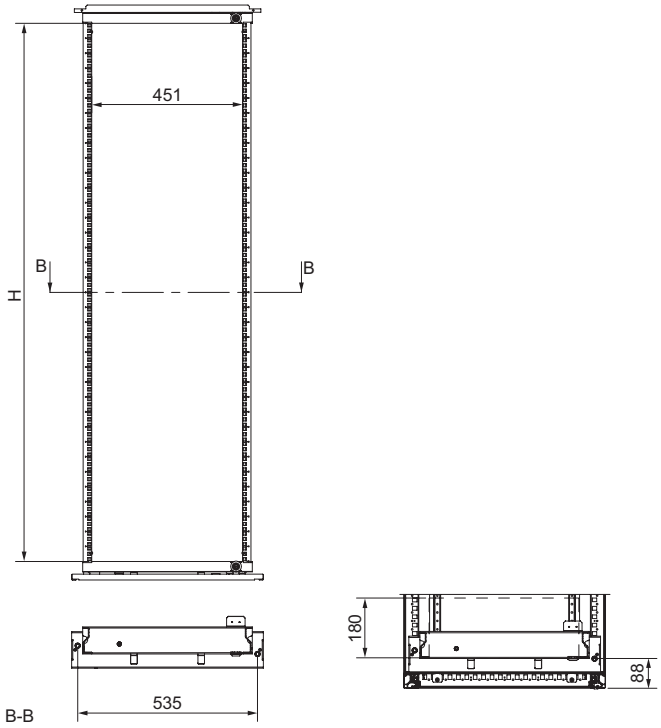
PB500708

19" swing rack with no panels

- To be coupled to enclosures with widths of 600 mm.
- **Spacial SF:** fixing to the enclosure structure at any height using supports for 19" swing racks.
- **Spacial SM:** fixing to the enclosure on the top/bottom adjustment rails using supports for 19" swing racks.
- Can be moved depthwise with a pitch of 25 mm.
- Maximum load: 1.5 kg/U.
- Maximum opening: 120°.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.
- Fixing to the enclosure structure:
  – **Spacial SF:** fixing to the entire height of the enclosure structure.
  – **Spacial SM:** fixing to the enclosure on top/bottom adjustment rails (order rails separately).
- Installation options:
  – **Spacial SF - SM:** option for installing 2 racks in enclosures with widths of 1200 and 1600 mm, using two 90-mm universal cross rails in the depthwise direction (see page **357**).
  – **Spacial SF - SM:** multiple installation options in enclosures with a width of more than 600 mm (800, 1000, 1200 and 1600 mm), using universal cross rails (see page **357**).
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5-mm double-bar key.

Supply: one 19" swing rack with no panels.

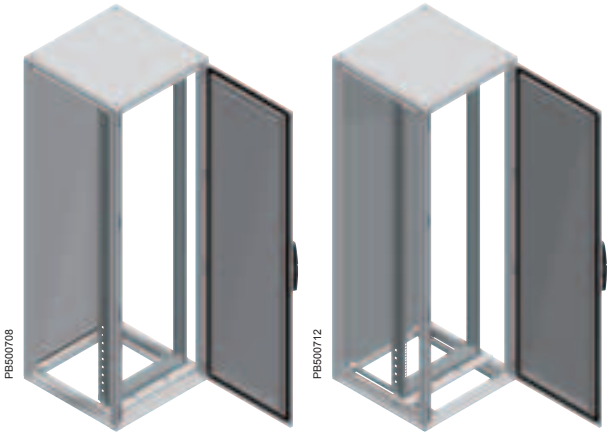
Nominal dimensions (mm)		No. of units	Reference
Height (A)	Width (B)		
1400	600	27	**NSYRSW627**
1600		31	**NSYRSW631**
1800		36	**NSYRSW636**
2000		40	**NSYRSW640**
2200		45	**NSYRSW645**



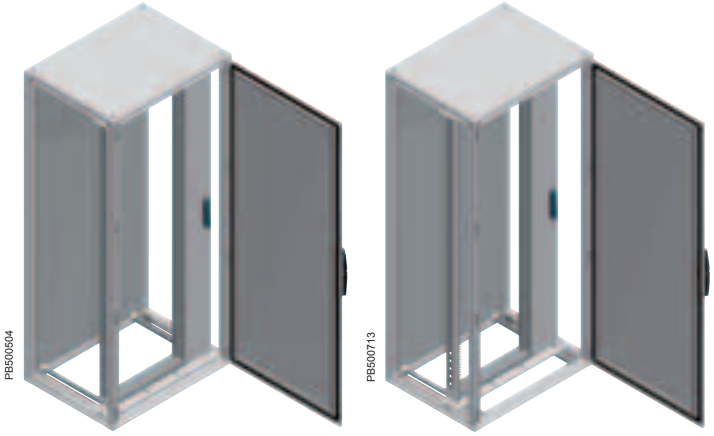
DB300248

Electronic application
Mounting accessories

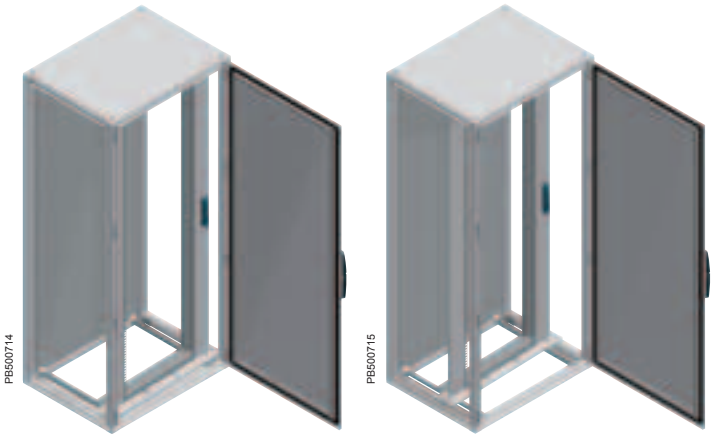
Examples of alternatives for 19" swing racks



19" swing rack in enclosure with a width of 600 mm.

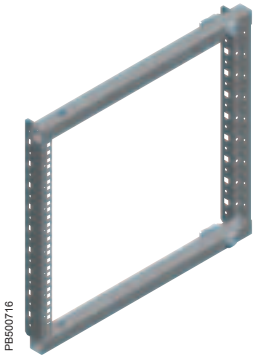


Off-centre 19" swing rack in enclosure with a width of 800 mm.



Centred 19" swing rack in enclosure with a width of more than 800 mm.

Electronic application
Mounting accessories


PB500716

PB500717

PB500718

PB500719

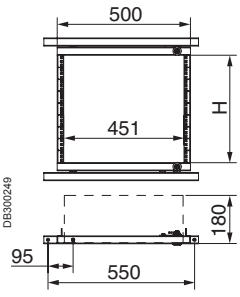
Partial 19" swing rack

- Rack for coupling to enclosures with widths of 600 and 800 mm.
- In enclosures with a width of 800 mm, the rack can be installed centred or off-centre.
- **Spacial SF:** Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack.
- **Spacial SM:** Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack and vertical adaptation profiles.
- For height or depth adjustment, with a pitch of 25 mm, it is necessary to use two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**; and for moving depthwise and up or down, four cross rails are required. See universal cross rails, page **357**.
- **Spacial SM:** to install the depthwise cross rails, the vertical adaptation profile and two 40 mm universal cross rails (1 row) are required, installed vertically in the back of the enclosure.
- Maximum load: 2 kg/u.
- Maximum opening: 120°.
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5 mm double-bar key. The 6 and 9 units racks only with bottom lock.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.

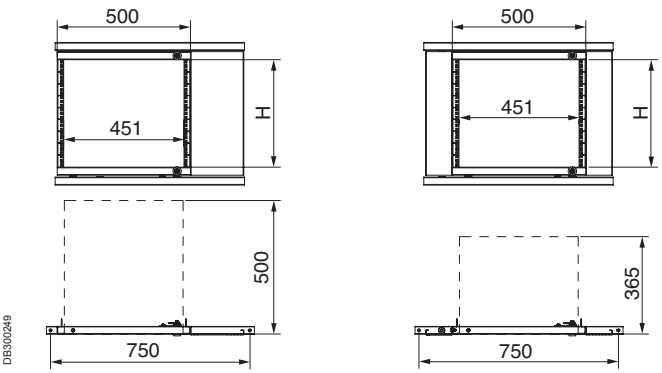
Supply: one partial 19" swing rack.

Rack height (mm)	Nominal dimensions (mm)	No. of units (H)	Reference
	Width (B)		
355	600/800	6	**NSYRSWP6**
468		9	**NSYRSWP9**
601		12	**NSYRSWP12**
735		15	**NSYRSWP15**
868		18	**NSYRSWP18**
1002*		21	**NSYRSWP21**

*Optional installation in enclosures with height of 1200 mm.

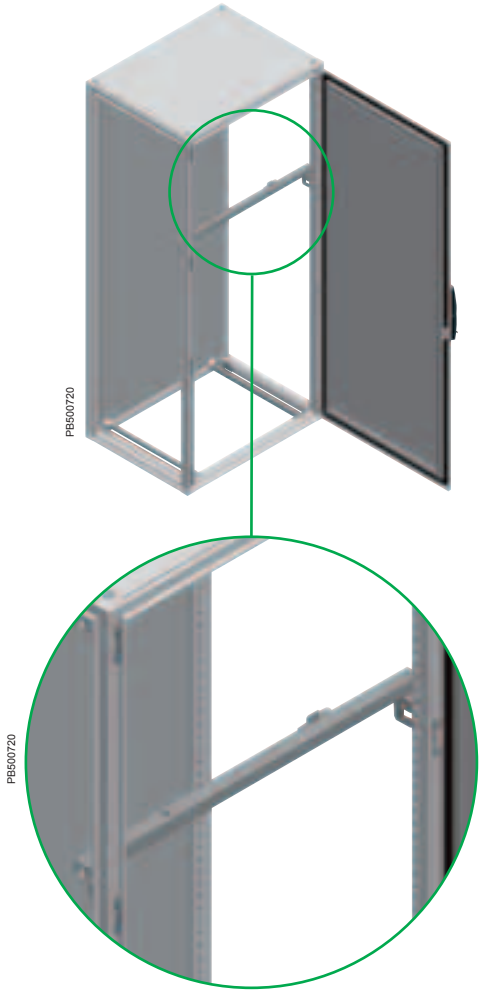


Partial 19" swing rack for enclosures with a width of 600 mm.



Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.

Electronic application
Mounting accessories



Partial 19" swing rack support

- Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm.
- Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm.
- **Spacial SF:** direct fixing to the structure.
- **Spacial SM:** fixing to the enclosure by means of the vertical adaptation profile, page **355**.
- Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**.
- Material: zinc-coated steel.

Supply: two supports and fixing elements.

Nominal dimensions (mm)	Reference
Width	
600	**NSYRSWSP6**
800	**NSYRSWSP8**

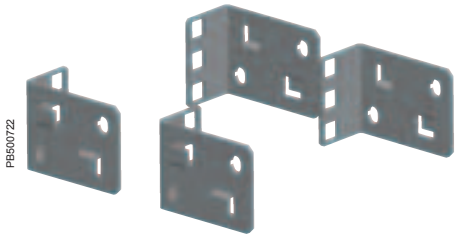
19" multiple bracket

- Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
- Material: zinc-coated steel.

Supply: four brackets and fixing elements.

Reference
NSYMBR19

Electronic application
Mounting accessories


PB500722

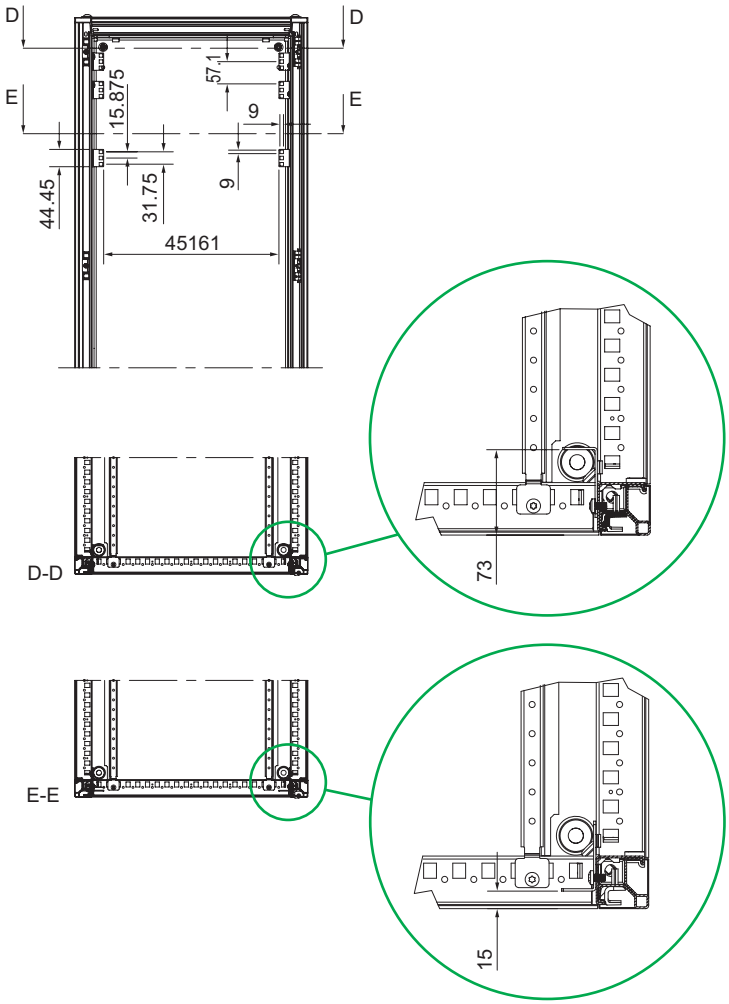
1 U / 3 U support

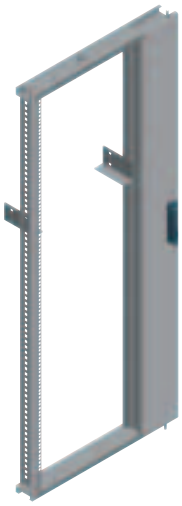
- Support prepared for installing equipment 1 U or 3 U high.
- Designed with quick locking for easy installation.
- **Spacial SF:** direct fixing to the structure.
- **Spacial SM:** fixing to the enclosure by means of the vertical adapter section, page **355**.
- Material: zinc-coated steel.

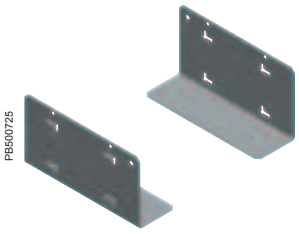
Supply: four 1 U/3 U supports (2 units right and 2 units left) and fixing elements.

Reference
NSYRC1U

PB500723




PB500724


PB500725

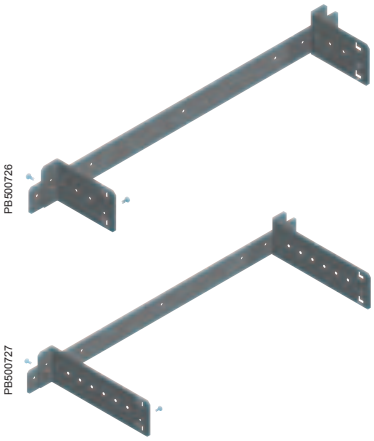
19" rack rail

- Rails for installation on fixed or swing racks.
- Direct fixing on the structure of the enclosure, by quick locking.
- Maximum load: 15 kg.
- Material: zinc-coated steel.
- Thickness: 1.2 mm.

Supply: two rails and fixing elements.

Reference
NSYGB140

Electronic application
Mounting accessories

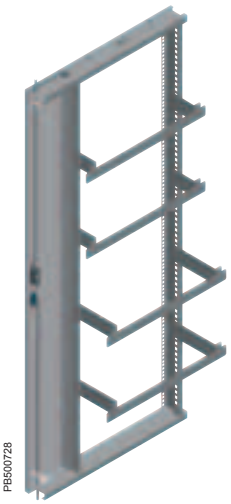


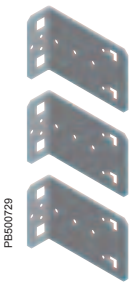
Rear cable-guide support

- Supports used for installation on the rear of the swing racks.
- Suitable for fixing cable-guide accessories.
- Allow vertical fixing of cable ducts:
- Adjustable depth with a pitch of 44.45 mm.
- Material: zinc-coated steel.

Supply: two cable-guide supports, crossbar and fixing elements.

Service depth (mm)	Reference
150	**NSYRCSUP15**
250	**NSYRCSUP25**



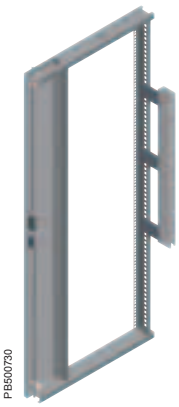


Fixing of cable ducts on 19" racks

- Allows vertical fixing of cable ducts for cable guide.
- Service depth: 150 mm.
- Fixed by quick locking to the 19" rack profile.
- Material: zinc-coated steel.

Supply: three units and fixing elements.

Reference
NSYRCDFIX



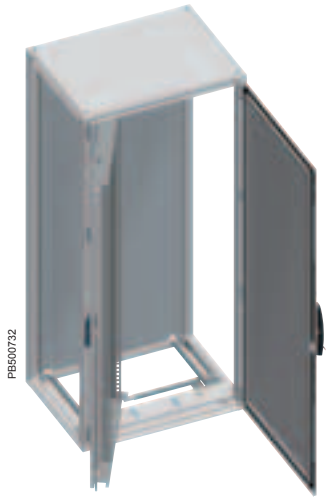
Electronic application
Door accessories

120° mechanical door stop

- Door stop for installation on the swing racks.
- Direct fixing to the rack support and the 19" rack.
- Maximum opening: 120°.

Supply: one mechanical door stop and fixing elements.

Reference
NSYRCDR12

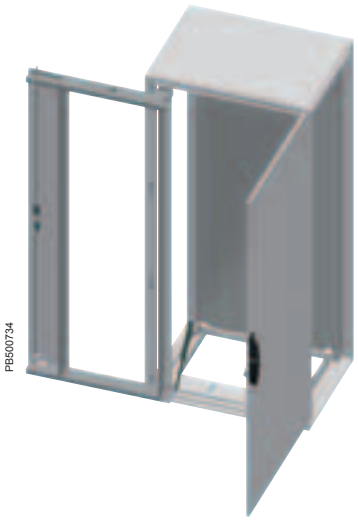


180° pneumatic door stop

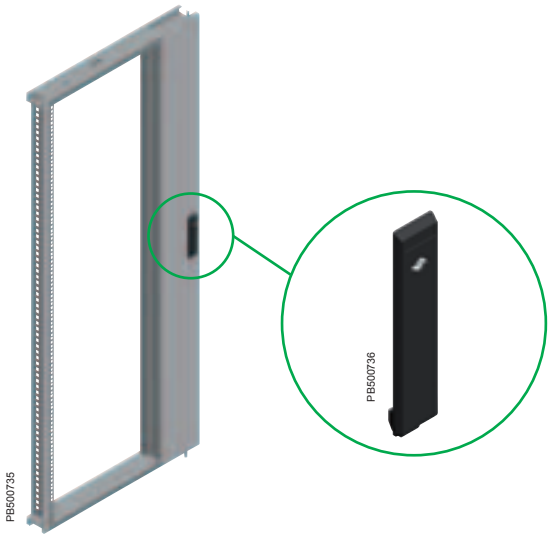
- Door stop for installation on the swing racks installed with 180° hinges.
- **Spacial SF:** fixing to the base of the structure and to the rack.
- **Spacial SM:** direct fixing to the rack support and to the 19" rack.
- Maximum opening: 180°.

Supply: one pneumatic door stop and fixing elements.

Reference
NSYRCDR18



Electronic application
Door accessories



Flat escutcheon for swing 19" rack

- Flat escutcheon with 5-mm double-bar insert lock, for installation on swing 19" racks.

Supply: one flat escutcheon, 5-mm double-bar insert and fixing elements.

Reference
NSYRCLOCK

Switch for swing 19" rack

- Switch for direct fixing on the bottom or top support of the swing rack.
- M20 connection.
- Open + closed contact, 10 A/500 V.

Supply: one 19" rack switch and fixing elements.

Reference
NSYRCINT

Fixing elements for 19"

- Elements required for fixing switchgear on 19" racks, made up of:

– Screws.
– Washers.
– Nuts.

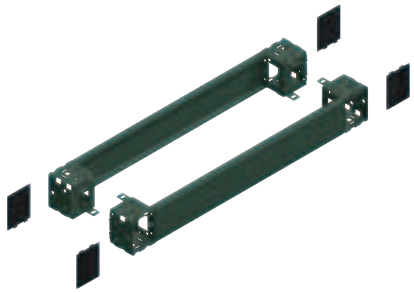
Supply: 50 units of each.

Reference by unit. Order by multiples of 50 (50, 100, 150...).

Thread type	Reference
M5	NSYGFR95M55
M6	NSYGFR95M65

Applications
Server rack

PB500123



Plinth

- See composition accessories: floor, page **129**.
- Model heights: 100 and 200 mm.

Front plinth

Supply:
– **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
– **Height 200 mm:** four corners, four panels (two front and two rear), four corner covers and fixing elements.

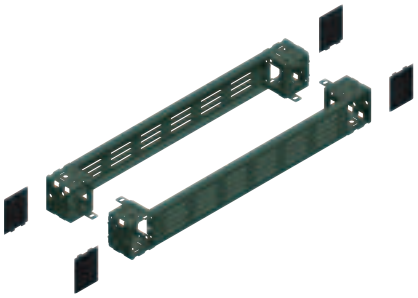
PB500124

Plinth side panels

Supply:
– **Height 100 mm:** two side panels, four corner covers and fixing elements.
– **Height 200 mm:** four side panels (height of 100 mm, two for each side), four corner covers and fixing elements.

Nominal dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	800	NSYSPF6100	NSYSPF6200	NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPS10200
	1200			NSYSPS12100	NSYSPS12200
800	800	NSYSPF8100	NSYSPF8200	NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPS10200
	1200			NSYSPS12100	NSYSPS12200

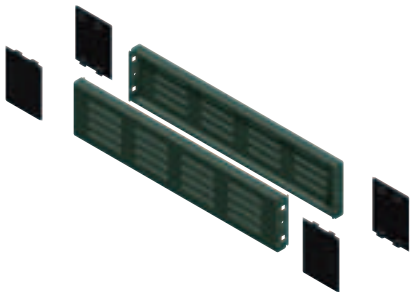
PB500563



Ventilated front plinth

Supply:
– **Height 100 mm:** four corners, two ventilated panels (front and rear), four corner covers and fixing elements.

PB500564

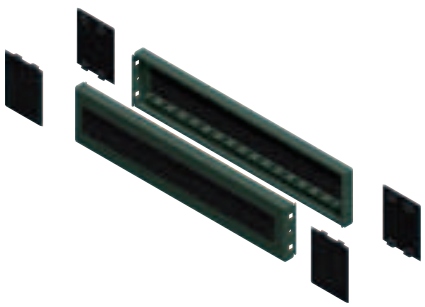


Ventilated plinth side panels

Supply:
– **Height 100 mm:** two ventilated side panels, four corner covers and fixing elements.

Nominal dimensions (mm)		Ventilated front plinth reference	Ventilated plinth side-panel reference
Height	Depth	100 mm	
600	800	NSYSPFV6100	NSYSPV8100
800	800	NSYSPFV8100	NSYSPV8100

PB500565



Panels with brush for plinth

Supply: two panels with brushes, four corner covers and fixing elements.

Nominal width/depth (mm)	Reference
600	NSYSPB6100
800	NSYSPB8100

Applications
Server rack

Cable-gland plates

- See composition accessories: cable entry, page **142**.
- Models: plain plates, with one entry and two entries.

Plain cable-gland plates

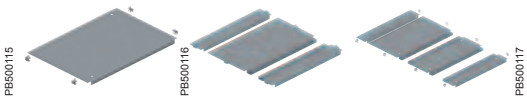
Supply: one plain plate and fixing elements.

Cable-gland plates with 1 entry

Supply: one plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.

Cable-gland plates with 2 entries

Supply: one plate with two entries, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.



Nominal dimensions (mm)		Reference		
Width	Depth	Plain	With 1 entry	With 2 entries
600	800	**NSYEC68**	**NSYEC681**	**NSYEC682**
	1000	**NSYEC610**	**NSYEC6101**	**NSYEC6102**
	1200	**NSYEC612**	**NSYEC6121**	**NSYEC6122**
800	800	**NSYEC88**	**NSYEC881**	**NSYEC882**
	1000	**NSYEC810**	**NSYEC8101**	**NSYEC8102**
	1200	**NSYEC812**	**NSYEC8121**	**NSYEC8122**

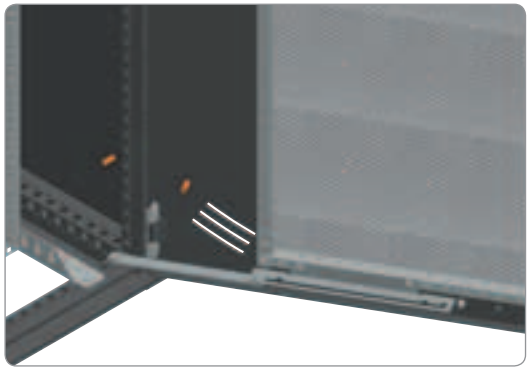
Brush-type cable entry gasket

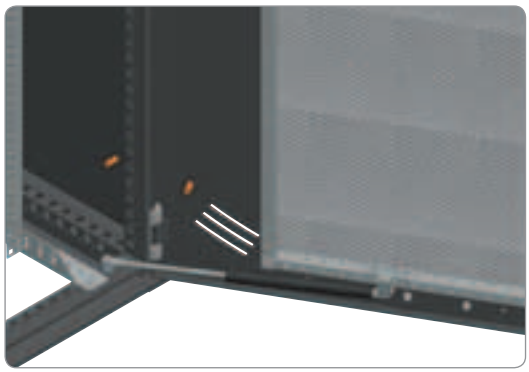
- Gasket for cable-gland plates with 1 or 2 entries. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation directly onto the sheet by clipping system.
- Width of the brush gasket: 25 mm.

Supply: two brush-type gaskets.

Nominal width (mm)	Reference
600	**NSYBCE6**
800	**NSYBCE8**

Applications
Server application


PB501012


PB501013

Door stop

- Door blocker at the opening limit.
- The door stop is fixed directly to the structure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.
- 2 models:

– Mechanical door stop, opening limit 105°.
– Pneumatic door stop, opening limit 120°.

Supply: one door stop and fixing elements.

Door stop model	Reference
Mechanical	**NSYSFMDR**
Pneumatic	**NSYSFNDR**

PB501014

Door switch

- The switch is fixed to the structure of the enclosure.
- M20 connection.
- Open + closed contact, 10 A/500 V.

Supply: one door switch and fixing elements.

Reference
NSYDCM20

Automobile application

PB500747

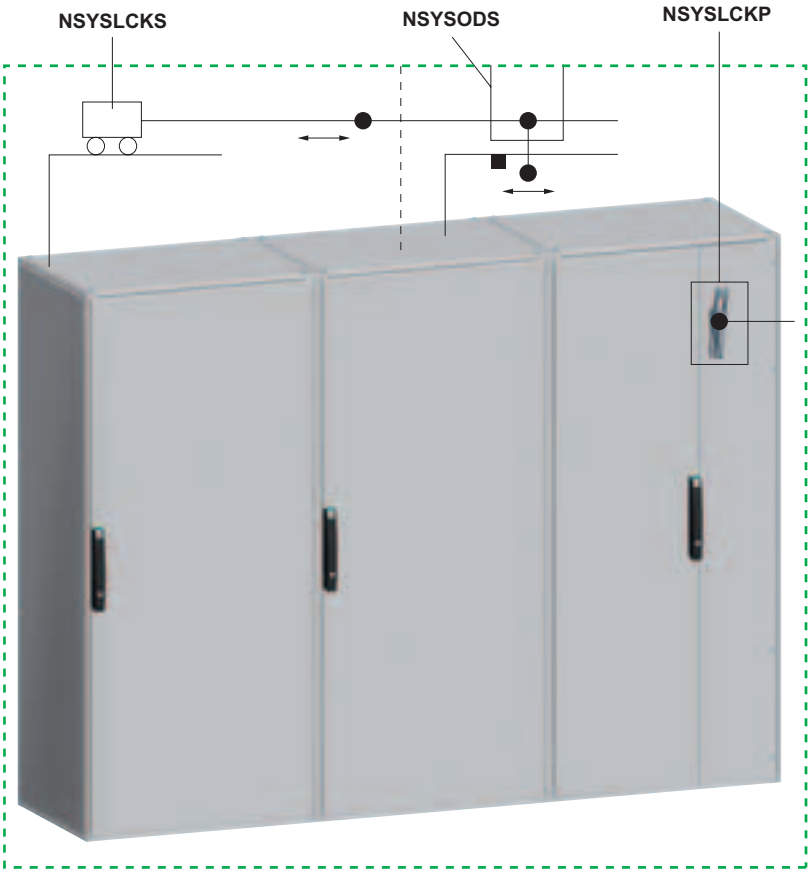
Automobile application
Contents

Spacial SF 652

Automobile application

Built-in system for interlocking the doors of associated enclosures

- The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
- Designed to be associated with certain circuit breakers or switches:
  – Square D (9422 A1).
  – Telemecanique.
- The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.



Automobile application

PB500744

Interlocking for main door

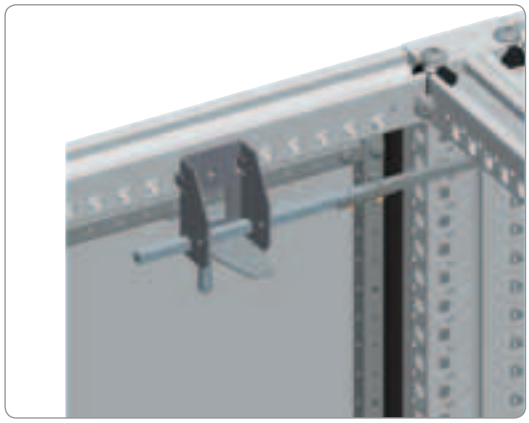
- System for unlocking the main door adapted to the switches:
  – Allen Bradley (1494 VH11).
  – Square D (9422 A1).
  – Siemens (FH0H).
  – Schneider Electric.
- Unlocks the main door when the switch is in the open position "O".
- Material: steel.
- Finish: zinc-coated.
- The main door interlocking system requires the ordering of both references:
  ❶ Activation for secondary doors.
  ❷ Interlocking for secondary doors.

Supply: two brackets for fixing the configured panel, interlocking elements, switch and fixings.

Configured panel and handle not included.

Reference
NSYSLCKP

PB500745



PB500746

Activation for secondary doors

- System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.
- It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.
- Material:

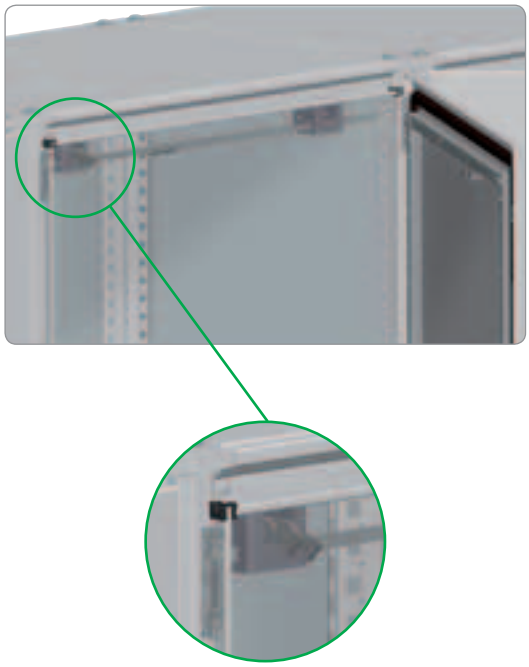
– Mechanism: zinc-coated steel.
– Activation handle: black plastic.

Supply: elements for activating the main door and fixings.

For the complete function, both activation (1) and interlocking systems (2) need to be ordered.

Reference
NSYSODS

Automobile application



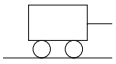
PB500747

Interlocking for secondary doors

- System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.
- Fixing to the structure of the enclosures by screws.
- Material: steel.
- Finish: zinc-coated.

Supply: elements for interlocking the secondary doors and fixings.

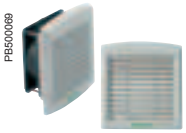
For the complete function, both activation (1) and interlocking systems (2) need to be ordered.



Nominal dimensions (mm)	Reference
Width	
600	**NSYSLCKS6**
800	**NSYSLCKS8**
1000	**NSYSLCKS10**

Thermal management system

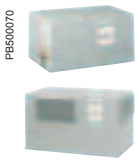
Thermal management system
Contents


PB500069

ClimaSys **658**

Risks 659
Solution 660

ClimaSys CV Ventilation systems **664**


PB500070

ClimaSys CE Exchangers **686**

PB500071

ClimaSys CU Cooling Units **700**

PB500080

ClimaSys CR Resistance Heaters **736**

PB500081

ClimaSys CC Thermal Control **748**

Thermal balance **764**

Software **768**

Calculation and selection **770**

Thermal management system

Thermal conditioning of electric and electronic switchboards: a need

PB501015

What is thermal control?

Technological evolution

The miniaturisation of components, the generalisation of electronics and the appearance of new electronically powered products have made temperature management into a growing need which must necessarily be considered when designing electrical and/or electronic switchboards.

What are the advantages of efficient thermal management?

Thermal management of electrical switchboards is a major factor for industrial maintenance.
Many risks are incurred by not having a suitable thermal solution, which can affect the service life of the components and the performance of the facilities to the extent of causing a halt in production.
The service life of the components also depends on the temperature and humidity conditions inside the enclosure. The ideal values range from +25 to +35 °C for the temperature and 40 to 60 % for the relative humidity (RH).

Cooling, heating, controlling

For the same reasons as the IP/IK protection ratings, equipment installed in enclosures requires suitable thermal protection.
Various solutions to these problems have been put forward. They will be chosen according to environmental conditions, the type of components in the electrical switchboard, etc.
In certain cases, it is sufficient to oversize the enclosure, use fans or air-air exchangers, etc. In other cases, where the ambient temperature is higher, it becomes necessary to install air-water exchangers or cooling units.

A solution for each need

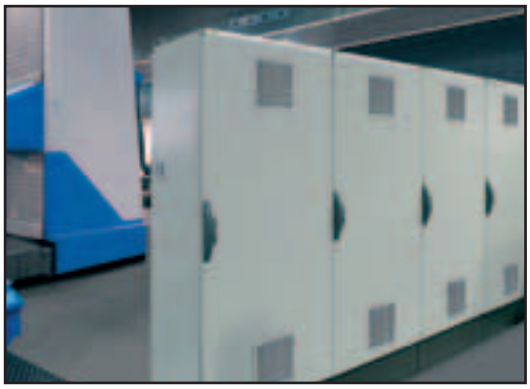
We provide a complete Thermal offer to secure your installations.

Cooling	1. Forced ventilation systems 2. Air-air exchangers 3. Air-water exchangers 4. Cooling units
Heating	5. Resistance heaters
Controlling	6. Thermal control accessories
Calculating	7. New ProClima 5.0 software

Risks

Risks associated with the lack of thermal control

PB501016


PB501017

PB501018

PB501019

Random breakdowns and production halts result in heavy losses

Thermal control of enclosures extends the service life of the components and reduces their breakdown rate.

Reduction of the service life of the components

The service life of the components is considerably reduced if the temperature and humidity in enclosures are not controlled. Repeated sudden variations speed up the aging process.

Example
Batteries – Accumulators
Manufacturers recommend installing batteries in environments where the controlled temperature is 15 °C...25 °C.
Cold slows down the battery charging and discharging cycles. Heat increases the evaporation of water in the electrolyte and speeds up the oxidation of the plates.
Using batteries at temperatures above the recommended value therefore reduces their service life.

Sudden production halt

The appearance of hot spots increases the breakdown rate and endangers the production process.

Example
Electronic equipment
Most electronic industrial control systems are equipped with axial fans for their own thermal control. A failure of the fan can lead to a production halt.
Reduced service life of the fan is one consequence of the enclosure heating up.
24 V DC axial fan.
Temperature range: –20...+70 °C.
Service life at 20 ºC (L10 at 20 ºC): 50000 h.
Service life at 60 ºC (L10 at 20 ºC): 20000 h.

The service life of the equipment can drop from 50000 h to only 20000 h.

The internal temperature increases with a high degree of IP

In agressive atmospheres: dust, humidity, chemical agents, high temperatures, etc., the equipment is installed in industrial enclosures (IP 54) in order to protect it from the external environment. Nevertheless, it causes a reheating phenomenon which, if left unchecked, will be responsible in the short term for a halt in the operation of the components.

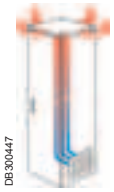
Example
Variable speed drives
A variable speed drive controlling a 45 kW (60 HP) motor is programmed to work at temperatures ranging up to 50 °C or 60 °C.
The power dissipated by this variable speed drive inside the enclosure can reach 1360 W.
This contribution of heat inside the enclosure will cause the top temperature to rise to 60 °C and probably cause a halt in production.

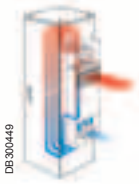
Our solution

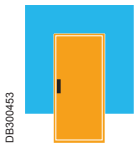
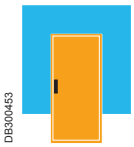
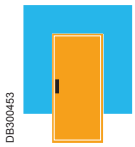
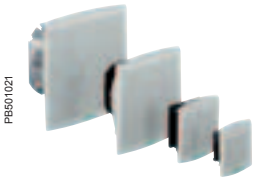
Our new thermal offer includes a large range of solutions, suitable for all situations, from installing a ventilation system to exchangers or even a cooling unit.
Do not hesitate to contact us to find out the best thermal solution for your installation.

Choose the solution

How to select the best temperature control auxiliary?

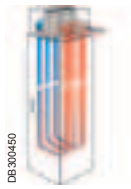


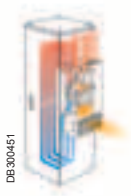


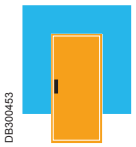
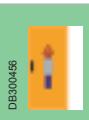
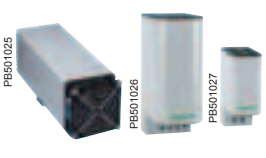
System	Airing	Ventilating	Air-air exchanger
	Natural convection causes the temperature to drop inside the enclosure. Simple solutions for this case include installing grilles (without filter) or lifting the top.	Fans with filters are designed to evacuate a large amount of heat economically.	Air-air exchangers are equipped with an aluminium exchange cassette which separates the internal and external air circuits and prevents the entry of dust.
When should it be used?	This solution can only be used when the power to be dissipated is low, in an environment with small amounts of dust.	When larger amounts of heat need to be evacuated in a polluted environment.	The air-air exchangers are used in highly polluted environments or when it is necessary to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.
Ta: Ambient temperature **Td: Desired temperature**	 **Ta < Td**	 **Ta < Td**	 **Ta < Td**
The internal and external air circuits must be independent.			
Advantages	• Economic solution. • No maintenance. • Quick and easy installation.	• Economic solution. • Easy maintenance. • Quick and easy installation. • Even temperature inside the enclosure. • High protection rating: IP 54 or IP 55.	• The internal and external air circuits are independent. • Easy maintenance. • High protection rating: IP 54.
Disadvantages	• Small amount of heat evacuated. • Reduction of the IP protection rating. • Entry of dust particles.	• The temperature inside the enclosure is always higher than the external temperature. • The internal and external air circuits are in contact. • Maintenance required: filter replacement.	• The temperature inside the enclosure is always higher than the external temperature.
Solutions	 Ventilation devices	 Fans and outlet grilles	 Air-air exchangers

Choose the solution

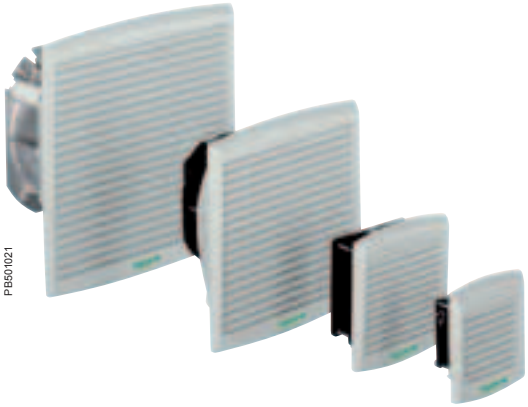
How to select the best temperature control auxiliary?





	Air-water exchanger	Cooling	Heating
	Air-water exchangers reduce the temperature inside the enclosure by means of a water-cooled exchange cassette. Temperature control inside the enclosure is performed by a thermostat which opens and closes an electro-valve.	Air-conditioning device providing efficient cooling of the enclosure, regardless of the outside air, and prevention against hot spots.	The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components.
	The air-water exchangers are used to evacuate large amounts of heat. They require a cold-water circuit with stable temperature and flow rate. They are specially recommended in difficult, highly polluted environments where there is no external air circuit.	The cooling units can be used in the harshest environments, where the temperature can reach up to 55 °C. These devices control the temperature inside the enclosure and include an alarm function for signalling operational anomalies.	The resistance heaters are used to reheat the electrical switchboard when the ambient temperature is too low or to prevent the formation of condensation.
	 Ta > Td	 Ta > Td	 Ta < Td
	 YES	 YES	
	• The temperature inside the enclosure does not depend on the external temperature. • The internal and external air circuits are independent. • Security device against possible leaks.	• Even temperature inside the enclosure. • High protection rating: IP 54. • Use of an environmentally friendly gas.	• Small dimensions. • Equipped with a PTC-type heating system, which stabilises the surface temperature of the aluminium profile. • Available in two versions: insulated with low surface temperature or in aluminium when the surface temperature is limited to 75 °C. • The fan-equipped resistances guarantee an even temperature inside the enclosure.
	• A cold-water supply source is required. • Specific pumping installation.	• Installation of a drain is recommended. • Maintenance required: filter replacement.	
	 Air-water exchangers	 Cooling units	 Resistance heaters

Choose the solution
A thermal solution for every environment


PB501021

Ventilation systems with filters

Specially recommended for installations in which:
- The ambient temperature is lower than the desired temperature inside the enclosure.
- A high protection rating is required: IP 54 or IP 55.
- The surrounding environment is relatively clean, allowing air to enter the enclosure.

Large range of solutions

- 42 possible combinations.
- Colours: RAL 7035 as standard, with the option of changing to RAL 7032 (with replacement grille **NSYCAG●●●LPC**).
- 38 to 850 m^3/h.
- According to 5 input voltages:
  AC: 400/440 V, 230 V, 115 V (50/60 Hz),
  DC: 48 V and 24 V.
- Broad range of accessories (filters, IP 55 & EMC covers, anti-vandalism kit).

PB501022

Air-air exchangers

Specially recommended for installations in which:
- The ambient temperature is lower than the desired temperature inside the enclosure.
- A high protection rating is required: IP 54 or IP 55.
- The outside environment is highly polluted.

Large range of solutions

- 4 models.
- Two installation versions: top-mounting model and side-mounting model.
- Cooling power from 15 to 70 W/ºK .
- According to the input voltage: 230 V (50/60 Hz).

PB501023

Air-water exchangers

Specially recommended for installations in which:
- The ambient temperature is higher than the desired temperature inside the enclosure.
- The outside environment is corrosive, the internal and external air circuits are independent.
- The outside environment is highly polluted, the temperature is controlled by cold water without requiring the use of an external air circuit.
- It is necessary to extract the heat from the enclosure to the outside of the building.

Large range of solutions

- 3 models.
- Two installation versions: top-mounting model and side-mounting model.
- Cooling power of 2100 W and 3150 W.
- According to the input voltage: 230 V (50/60 Hz).

Choose the solution

PB501028

PB501024

Cooling units

They control the temperature inside the enclosure in order to guarantee the correct operation of the components, regardless of the outside temperature, by separating the internal and external air circuits and reducing the humidity of the enclosure.

Large range of solutions

- 32 models.
- Two versions: top-mounting model and side-mounting model.
- Cooling power from 240 to 4000 W.
- Two control versions: electronic and mechanical.
- According to the input voltage: 230 V (50/60 Hz); 3 x 400/440 V (50/60 Hz); 115 V (50/60 Hz).
- Three installation types: surface, flush and partial flush (SLIM version).
- RAL 7035 and stainless steel.

PB501026

PB501027

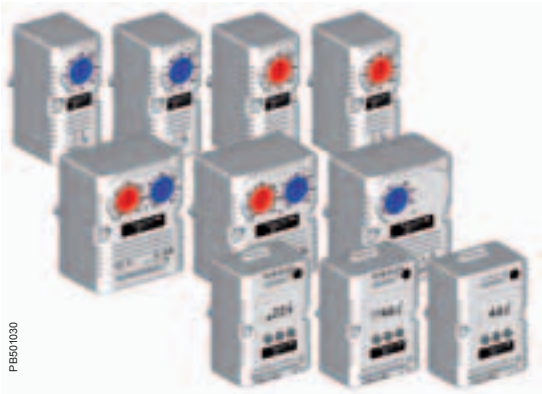
PB501029

Resistance heaters

With a double objective:
- To prevent the formation of condensation inside the enclosure.
- To reheat the electrical switchboard when the temperature is too low for the components to operate correctly.

Large range of solutions

- 30 models.
- Insulated or aluminium versions.
- Versions with natural convection or fan.
- Cooling power from 10 to 550 W.
- According to the input voltage: 12 V to 450 V AC/DC.

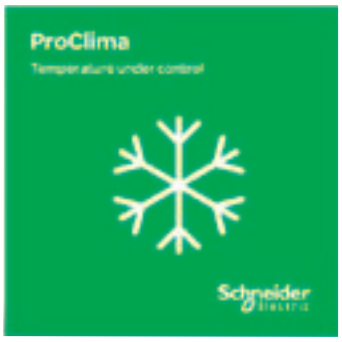

PB501030

Thermal control

Thermostats contol the temperature inside the enclosure and send a signal when certain defined values are exceeded:
- Maximum value (cooling action).
- Minimum value (reheating action).

Large range of solutions

- 15 models.
- Temperature control: adjustable thermostats; single or double.
- Relative humidity control: adjustable hygrostat.
- Temperature and relative humidity control: adjustable hygrotherm.

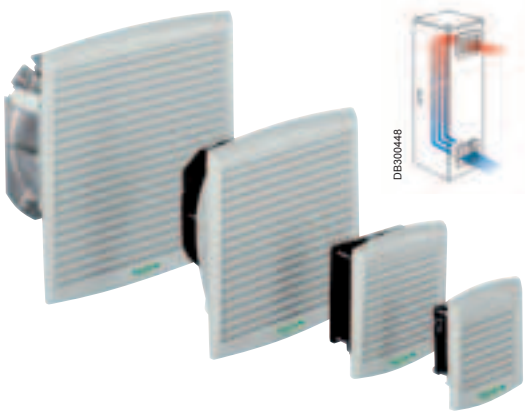


PB500011

Calculation assistance: ProClima

We offer our customers and users a software application to help them select thermal accessories.
The programme draws up a heat balance and defines the best ventilation or cooling solution for the inside of the enclosure.

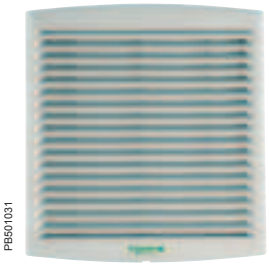
Ventilation systems
Introduction


PB501021

DB300448

Large range of fans

Flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.


PB501031

Optimised flow rate: average increase of 50%

Maximum use of surface

The outlet grille maximises the air circulation.

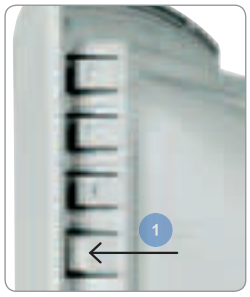
PB501032

Minimum loss of pressure

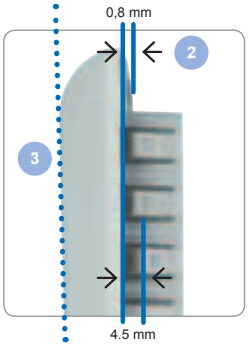
Improved air flow. The corners of the walls, the variable tilt of the slats, the fixing distance of the motor and the dimensions of the device have been studied to guarantee better aerodynamics and a smaller loss of pressure.

PB501033

Ventilation systems
Introduction



PB501034



PB501035

High protection rating: IP 54 as standard

Fixing guide (1)

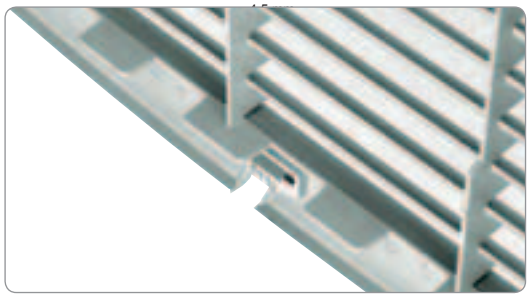
An exclusive new mechanism (patented) is used to centre the body of the fan on the wall of the enclosure. This system corrects machining faults.
In addition, it facilitates the correct operation of the fixing "clips".

Multi-thickness fixing-clips (2)

This exclusive device (patented) guarantees easy and reliable fixing of the ventilation system on walls with a thickness of 0.8 to 4.5 mm, with no fixings.
It guarantees perfect compression of the seal around the outline of the cut-out.
The seal between the grille and the wall is guaranteed for all the materials: steel, stainless steel, polyester, aluminium, etc.

Inclined profile of the grille (3)

- This innovating profile helps protect the filter against vertical spraying:
  – Each slat is protected by the slat above it.
  – The external dimensions remain small.


PB501036

IP 54-55

A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.

PB501037

Hot-fitted sealing gasket

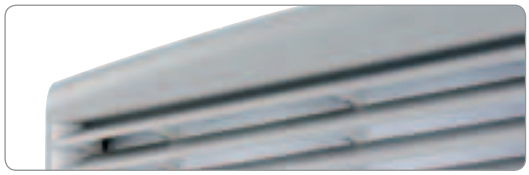
The polyurethane gasket, hot cast, guarantees a long-lasting seal.

PB501038

Effective system for retaining the filter

The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP 54, in the most difficult conditions.

Ventilation systems
Introduction


PB501033

Innovative design

Innovative design with flowing lines

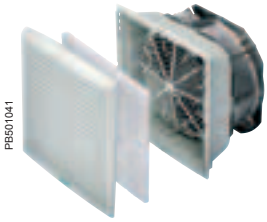
PB501039

PB501040

Easy installation

Quick installation

- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Fixing also possible using screws.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.


PB501041

Easy maintenance

Quick filter replacement

Quick, easy and safe replacement of the filter installed in the fan, even during operation.

PB501042

Quality of the components

Selection of the motors

Improved flow rate and longer service life.
Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.

PB501043

Ventilation offer

With homologation UL available.

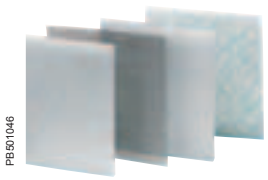
Ventilation systems
Introduction

Large range of accessories

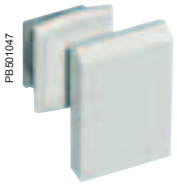
Selection of plastic materials

ASA / PC material chosen to manufacture the ventilation system:
- Improved resistance (longer service life) to UV.
- Excellent mechanical operation.
- Standard grille colours: RAL 7035 and RAL 7032 (replacement accessory).

Other colours are available on demand (contact us).
ASA / PC plastic material, self-extinguishing according to standard UL94 V0.



Filtres



IP 55 cover

Large range of accessories

Large variety of filters

- Filters for oily environments (OEM).
- Anti-insect filters.
- Fine filters (improved protection against dust).

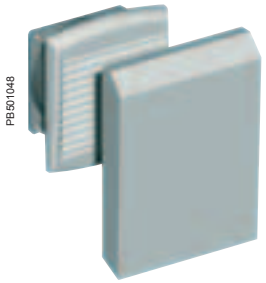
See page **676**.

Sealing cover IP 55

- Available in two versions:

– Aluzinc: RAL 7035 grey paint.
– Stainless steel.

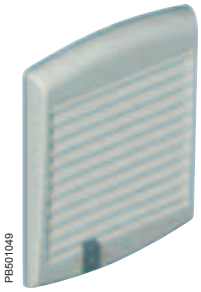
See page **677**.



EMC cover

Thanks to this accessory, the various ventilation systems offer greater resistance to magnetic fields (EMC), preventing any interference with the equipment installed inside the enclosure.

See page **678**.



Anti-vandalism kit

Accessory for outdoor applications, in contact with the public.
It prevents unwanted opening of the grille.

See page **676**.

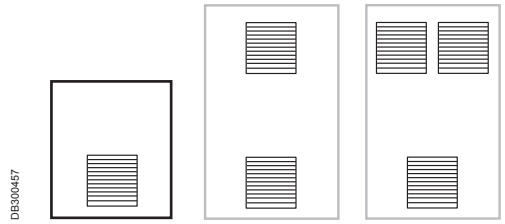
ENVIRONMENTALLY FRIENDLY

Environment

- Recyclable plastic materials and filters.
- Motors according to the RoHS directive.
- Lower power consumption for improved air flow.

Ventilation system
Selection guide

Ventilation systems with filters



PB501050	38	25	33	230 V	C	
	38	27	35	115 V	C	
	58	39	47	24 V DC	C	
	44	34	41	48 V DC	C	
PB501051	85	63	71	230 V	F	
	79	65	73	115 V	F	
	80	57	77	24 V DC	F	
	79	59	68	48 V DC	F	
PB501052	165	153	161	230 V	F	
	164	153	161	115 V	F	
	188	171	179	24 V DC	F	
	193	171	179	48 V DC	F	
	302	260	268	230 V	F	
	302	263	271	115 V	F	
	262	221	229	24 V DC	F	
	247	210	218	48 V DC	F	
PB501053	562	473	481	230 V	B	
	582	485	494	115 V	B	
	838	718	728	230 V	B	
	983	843	854	115 V	B	
	931	798	809	400/440 V	B	

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).

Ventilation system
Selection guide

	137 x 117	92 x 92	NSYCVF38M230PF	NSYCAG92LPF	NSYCAG92LPC	-	-	-
			NSYCVF38M115PF					
			NSYCVF38M24DPF					
			NSYCVF38M48DPF					
	170 x 150	125 x 125	NSYCVF85M230PF	NSYCAG125LPF	NSYCAG125LPC	NSYCAP125LZF	NSYCAP125LXF	NSYCAP125LE
			NSYCVF85M115PF					
			NSYCVF85M24DPF					
			NSYCVF85M48DPF					
	268 x 248	223 x 223	NSYCVF165M230PF	NSYCAG223LPF	NSYCAG223LPC	NSYCAP223LZF	NSYCAP223LXF	NSYCAP223LE
			NSYCVF165M115PF					
			NSYCVF165M24DPF					
			NSYCVF165M48DPF					
			NSYCVF300M230PF					
			NSYCVF300M115PF					
			NSYCVF300M24DPF					
			NSYCVF300M48DPF					
	336 x 316	291 x 291	NSYCVF560M230PF	NSYCAG291LPF	NSYCAG291LPC	NSYCAP291LZF	NSYCAP291LXF	NSYCAP291LE
			NSYCVF560M115PF					
			NSYCVF850M230PF					
			NSYCVF850M115PF					
			NSYCVF850M400PF					

Ventilation systems
Forced ventilation 38 m³/h

General characteristics

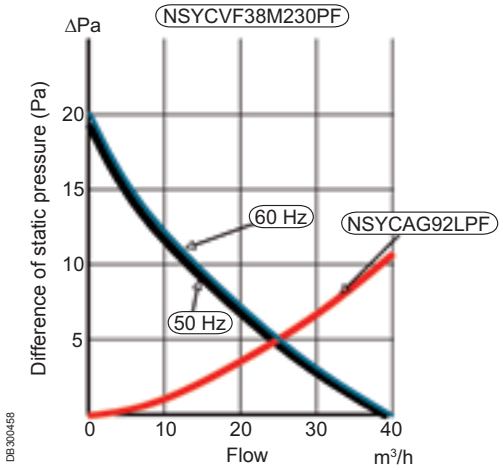
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	**NSYCVF38M230PF**	**NSYCVF38M115PF**	**NSYCVF38M24DPF**	**NSYCVF38M48DPF**
Free flow rate with standard filter (m³/h)	38 (50 Hz) 39 (60 Hz)	38 (50 Hz) 39 (60 Hz)	58	44
Flow rate with 1 outlet grille (m³/h)	25 (50 Hz) 26 (60 Hz)	27 (50 Hz) 28 (60 Hz)	39	34
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	150 V...250 V	75 V...125 V	10 V...27.6 V	36 V...56 V
Absorbed power (50/60 Hz)	4.5/4.8 W	3.3/3.5 W	3.6 W	3.6 W
Max. intensity (50/60 Hz)	0.16/0.17 A	0.16/0.16 A	0.18 A	70 mA
Noise level	40/41 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	137 x 117 x 49			
Cut-out (mm)	92 x 92			
Weight	0.220 kg		0.230 kg	
Material	Injected thermoplastic (ASA PC). self-extinguishing according to UL94 V0			
Operating temperature	-10...+70 °C			
Storage temperature	-40...+70 °C			
Max. static pressure (flow rate 0 m³/h)	29 Pa			

Flow curves



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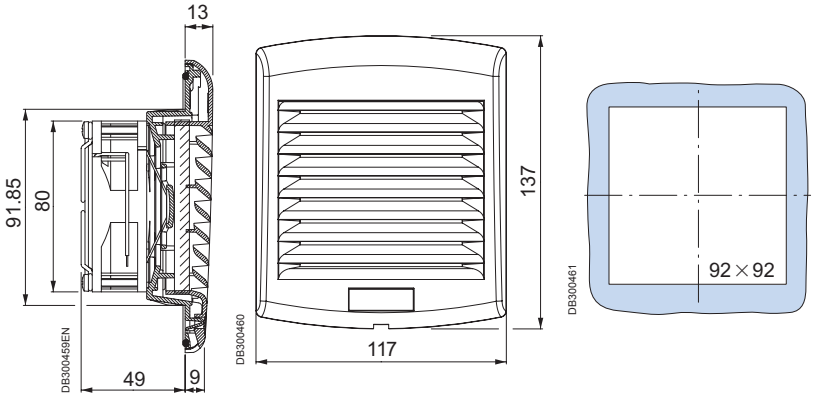


Ventilation systems
Forced ventilation 85 m³/h

General characteristics

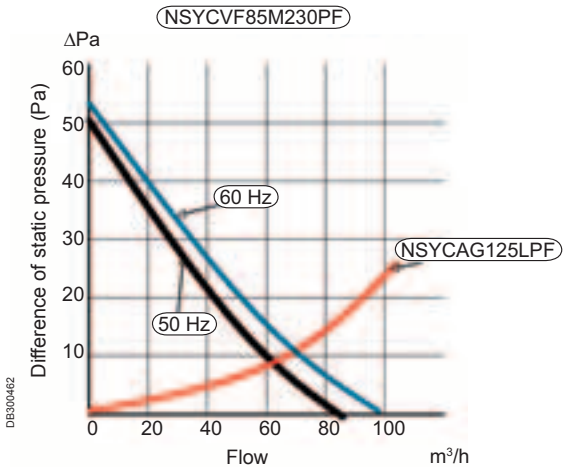
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	**NSYCVF85M230PF**	**NSYCVF85M115PF**	**NSYCVF85M24DPF**	**NSYCVF85M48DPF**
Free flow rate with standard filter (m³/h)	85 (50 Hz) 98 (60 Hz)	79 (50 Hz) 92 (60 Hz)	80 m³/h	
Flow rate with 1 outlet grille (m³/h)	63 (50 Hz) 72 (60 Hz)	65 (50 Hz) 74 (60 Hz)	60 m³/h	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	175 V...253 V	75 V...126 V	10 V...27.6 V	25 V...55.2 V
Absorbed power	17/15 W	16/15 W	7.6 W	8 W
Max. intensity (50/60 Hz)	0.121/0.097 A	0.207/0.179 A	0.30 A	0.173 A
Noise level	46/49 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	170 x 150 x 62			
Cut-out (mm)	125 x 125			
Weight	0.780 kg		0.480 kg	
Material	Injected thermoplastic (ASA PC). self-extinguishing according to UL94 V0			
Operating temperature	-20...+60 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure (flow rate m³/h)	50 Pa			

Flow curves



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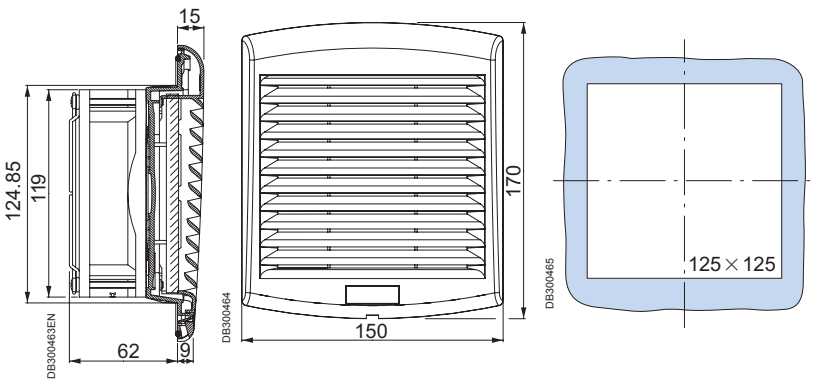


Ventilation systems
Forced ventilation 165 m³/h

General characteristics

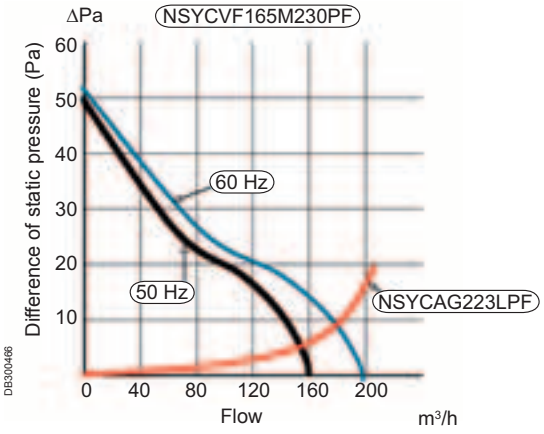
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during the handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	**NSYCVF165M230PF**	**NSYCVF165M115PF**	**NSYCVF165M24DPF**	**NSYCVF165M48DPF**
Free flow rate with filter (m³/h)	165 (50 Hz) 193 (60 Hz)		190 m³/h	
Flow rate with 1 outlet grille (m³/h)	153 (50 Hz) 171 (60 Hz)		171 m³/h	
Flow rate with 2 outlet grilles (m³/h)	161 (50 Hz) 175 (60 Hz)		179 m³/h	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	175 V...253 V	75 V...126 V	10 V...27,6 V	25 V...55,2 V
Absorbed power	16.3/14.3 W	15.5/14.4 W	8 W	8.7 W
Max. intensity (50/60 Hz)	0.12/0.94 A	0.20/0.18 A	0.3 A	0.18 A
Noise level	50/51 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	268 x 248 x 104			
Cut-out (mm)	223 x 223			
Weight	1140 kg		0.810 kg	
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0			
Operating temperature	-20...+60 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure	50 Pa			

Flow curves



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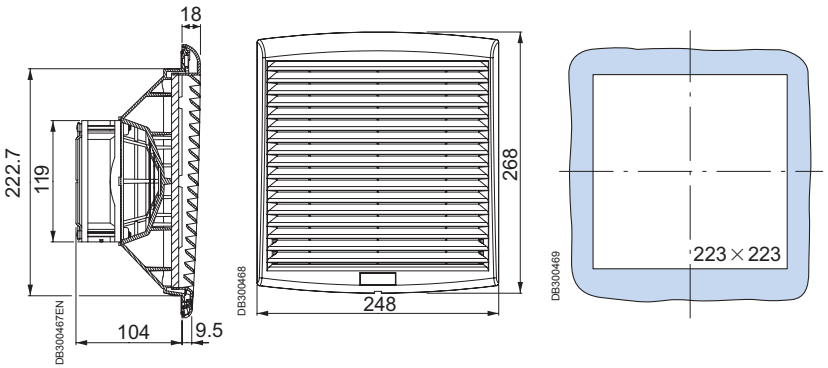


Ventilation systems
Forced ventilation 300 m³/h

General characteristics

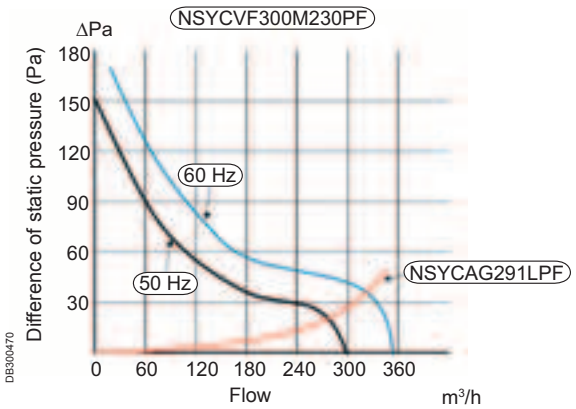
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille

Conditions of use

- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	**NSYCVF300M230PF**	**NSYCVF300M115PF**	**NSYCVF300M24DPF**	**NSYCVF300M48DPF**
Free flow rate with filter (m³/h)	300 (50 Hz) 350 (60 Hz)		262 m³/h	
Flow rate with 1 outlet grille (m³/h)	260 (50 Hz) 307 (60 Hz)		221 m³/h	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	145 V...253 V	75 V...126 V	12 V...30 V	25 V...60 V
Absorbed power	36/37 W	36/36 W	13 W	11 W
Max. intensity (50/60 Hz)	0.17/0.16 A	0.35/0.32 A	0.53 A	0.24 A
Noise level	55/56 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	268 x 248 x 116		268 x 248 x 103,4	
Cut-out (mm)	223 x 223			
Weight	1.3 kg		1.1 kg	
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0			
Operating temperature	-10...+70 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure	158 Pa			

Flow curves



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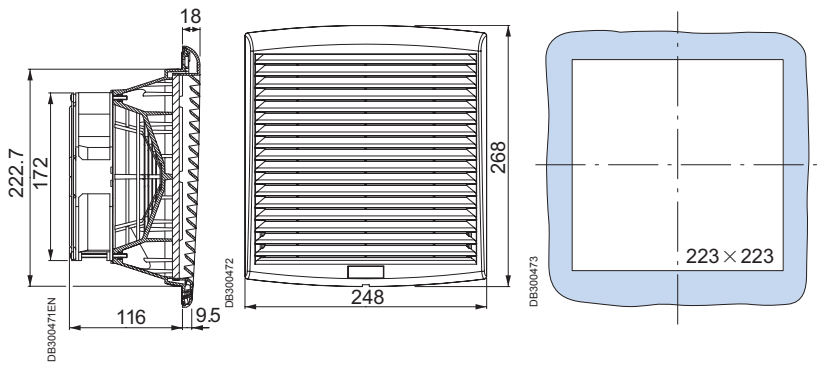
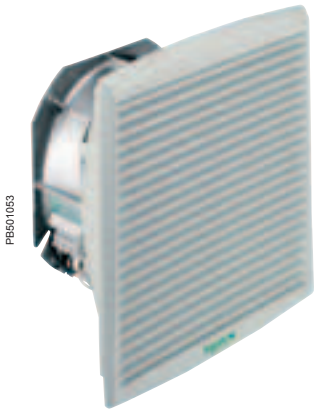


Ventilation systems
Forced ventilation 560-850 m³/h



General characteristics

- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use:

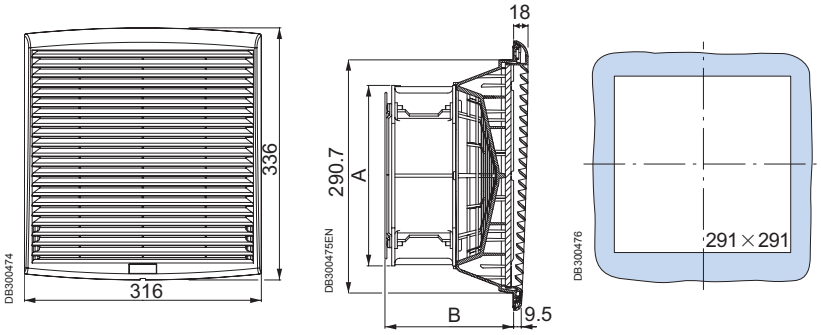
- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference				
Colour: RAL 7035	NSYCVF560M230PF	NSYCVF560M115PF	NSYCVF850M230PF	NSYCVF850M115PF	NSYCVF850M400PF
Free flow rate with filter (m³/h)	562 (50 Hz) 586 (60 Hz)		838 (50 Hz) 803 (60 Hz)	983 (50 Hz) 944 (60 Hz)	931 (50 Hz) 803 (60 Hz)
Flow rate with 1 outlet grille (m³/h)	473 (50 Hz) 477 (60 Hz)		718 (50 Hz) 568 (60 Hz)	843 (50 Hz) 642 (60 Hz)	798 (50 Hz) 568 (60 Hz)
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	230 V (50/60 Hz)	115 V (50/60 Hz)	400 V (50/60 Hz)
Voltage range	207 V...244 V	103 V...122 V	207 V...244 V	103 V...122 V	396 V...466 V
Absorbed power	68/85 W	65/83 W	150/195 W	145/182 W	126/126 W
Max. intensity (50/60 Hz)	0.52/0.370 A	0.60/0.72 A	0.65/0.85 A	1.279/1.6 A	0.226/0.232 A
Noise level	59/59 dB (A)		76/75 dB (A)	78/77 dB (A)	77/75 dB (A)
Bearing	Balls				
IP	54				
External dimensions (mm)	336 x 316 x 161		336 x 316 x 162		
Cut-out (mm)	291 x 291				
Weight	3.2 kg		4.1 kg		
Material	Injected thermoplastic (ASA PC). self-extinguishing according to UL94 V0				
Operating temperature	-15...+60 °C				
Storage temperature	-40...+70 °C				
Max. static pressure	140 Pa		170 Pa		

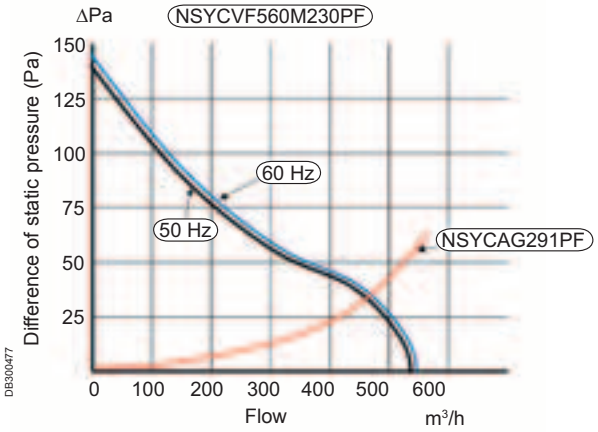
Ventilation systems
Forced ventilation 560-850 m³/h

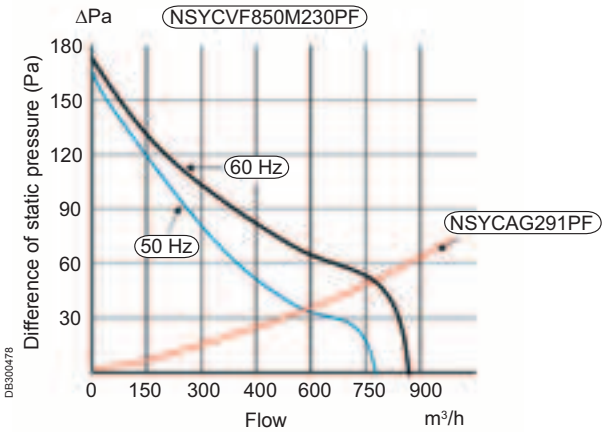
Dimensions

A	B	Reference
225	160.5	NSYCVF560M230PF NSYCVF560M115PF
280	162	NSYCVF850M230PF NSYCVF850M115PF



Flow curves





PB501054

RAL 7035

Outlet grilles

- Delivered with G2 M1 synthetic standard filter.
- Material: Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0.

Dimensions (mm)		IP	Reference RAL 7035
Total (external)	Cut-out		
137 x 117 x 13	92 x 92	54	**NSYCAG92LPF**
170 x 150 x 15	125 x 125	54	**NSYCAG125LPF**
268 x 248 x 18	223 x 223	54	**NSYCAG223LPF**
336 x 316 x 18	291 x 291	54	**NSYCAG291LPF**

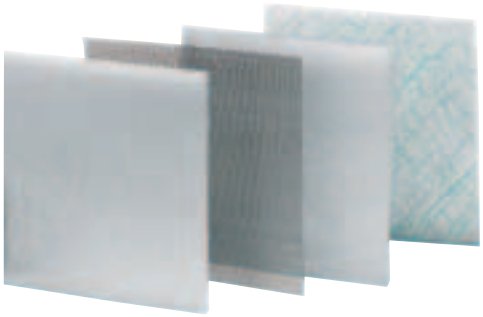
PB501055

RAL 7032

Replacement grilles in RAL 7032

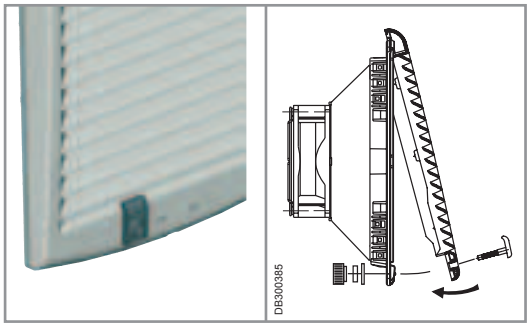
- External part of the grille (for fan or outlet grille) for changing the colour to RAL 7032.

Dimensions (mm) Total (external)	IP	Reference RAL 7032
137 x 117 x 13	54	**NSYCAG92LPC**
170 x 150 x 15	54	**NSYCAG125LPC**
268 x 248 x 18	54	**NSYCAG223LPC**
336 x 316 x 18	54	**NSYCAG291LPC**


PB501046

Filters

Concept	For fans and grilles		Pack.	Reference
	External dimensions (mm)	Cut-out (mm)		
G2 M1 synthetic standard filters	137 x 117	92 x 92	5	**NSYCAF92**
	170 x 150	125 x 125	5	**NSYCAF125**
	268 x 248	223 x 223	5	**NSYCAF223**
	336 x 316	291 x 291	5	**NSYCAF291**
Filters for greasy environments G2 M1	170 x 150	125 x 125	5	**NSYCAF125O**
	268 x 248	223 x 223	5	**NSYCAF223O**
	336 x 316	291 x 291	5	**NSYCAF291O**
G3 M1 synthetic fine filters	170 x 150	125 x 125	5	**NSYCAF125T**
	268 x 248	223 x 223	5	**NSYCAF223T**
	336 x 316	291 x 291	5	**NSYCAF291T**
Stainless-steel anti-insect filters	137 x 117	92 x 92	1	**NSYCAF92M**
	170 x 150	125 x 125	1	**NSYCAF125M**
	268 x 248	223 x 223	1	**NSYCAF223M**
	336 x 316	291 x 291	1	**NSYCAF291M**


PB501056

DB300385

Anti-vandalism kit

- Prevents the grille from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the wall-mounting enclosure.
- RAL 7011 colour (same material as the grille: ASA PC).

Minor packaging	Reference
2	**NSYCAAPV**

Sealing cover IP 55

- This solution protects the fan or the grille from any direct sprays.
- 2 materials available:

– Aluzinc for RAL 7035 outdoor applications.
– Stainless steel 304 for food and beverage applications.

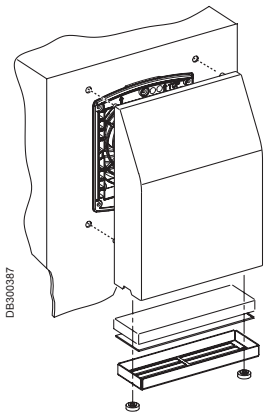
- Protection rating: IP 55.
- Resistance to mechanical impacts: IK 10.
- Double insulation maintained if installed in an insulated enclosure.
- UL certification.
- The cover is placed over the fan or the grille with a filter located at the bottom of the cover to prevent the entry of particles.
- Easy access to the filter: only two screws needed.
- When mounting: remove the external part of the fan or the grille as well as the filter.
- The cover is the preferred solution to guarantee the following:

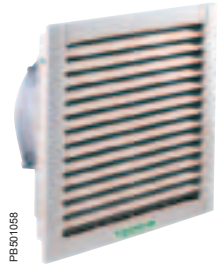
– An efficient air flow for cooling.
– And true IP 55 rating.

- It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system.

Flow rate (m^3/h)* with cover		Dimensions (mm)		Cover reference		Spare filter for cover	Fan reference	Grille reference
Free	With 1 outlet grille	External	Cut-out	Aluzinc RAL 7035	Stainless steel 304	Minor pack. 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAF125L55**	**NSYCVF85M230PF**	**NSYCAG125LPF**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF165M230PF**	**NSYCAG223LPF**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF300M230PF**	**NSYCAG223LPF**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF560M230PF**	**NSYCAG291LPF**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF850M230PF**	**NSYCAG291LPF**

*The impact on the flow rates of the fans supplied with the other voltages is similar to those provided by the 230 V fans.





IP 54 EMC Fan

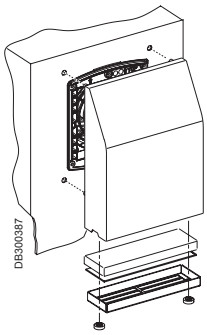
To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with:
- A steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0).
- A metal grille attached to the frame.
- A beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.

Dimensions (mm)		Flow rate (m^3/h)	Voltage (V)	Reference
External	Cut-out			
150 x 150 x 36	125 x 125	56	230	**NSY17990**
250 x 250 x 36	223 x 223	130	230	**NSY17991**
325 x 325 x 36	291 x 291	460	230	**NSY17992**

IP 54 EMC outlet grille

Grille equipped with:
- A steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0).
- A metal grille attached to the frame.
- A beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.

Dimensions (mm)		Reference
External	Cut-out	
150 x 150 x 36	125 x 125	**NSY17996**
250 x 250 x 36	223 x 223	**NSY17997**
325 x 325 x 36	291 x 291	**NSY17998**



EMC cover IP 55

- This solution guarantees protection against electromagnetic disruptions and guarantees IP 55.
- The EMC cover is installed on the fans or standard IP 54 outlet grilles.
- The cover, made from aluzinc sheet steel, completely covers the fan or outlet grille.
- Conductivity is obtained by means of:

– A conductive coating (2 Ω).
– A conductive copper braid.

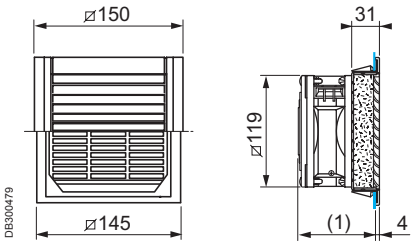
- Protection degree: IP 55.
- Resistance to mechanical impacts: IK 10.
- RAL 7035 grey.
- Absorption curve according to standard IEEE 299 1997 (UNE 50147-1).

Flow rate (m^3/h)*		Dimensions (mm)		Cover ref.	Spare filter for cover	Fan reference	Grille reference
Free	With 1 outlet grille	External	Cut-out	Aluzinc RAL 7035	Minor pack. 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LE**	**NSYCAF125L55**	**NSYCVF85M230PF**	**NSYCAG125LPF**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LE**	**NSYCAF223L55**	**NSYCVF165M230PF**	**NSYCAG223LPF**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LE**	**NSYCAF223L55**	**NSYCVF300M230PF**	**NSYCAG223LPF**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LE**	**NSYCAF291L55**	**NSYCVF560M230PF**	**NSYCAG291LPF**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LE**	**NSYCAF291L55**	**NSYCVF850M230PF**	**NSYCAG291LPF**

*The impact on the flow rates of the fans with different voltages is similar to the impact of the 230 V fans.

IP 55 EMC dimensions

NSY17990



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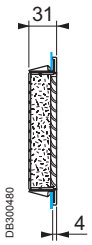

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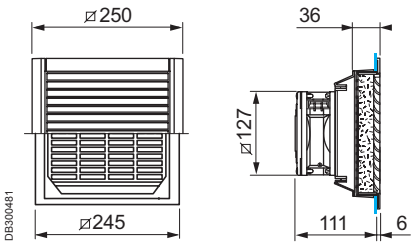

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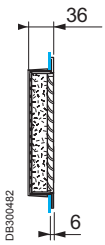

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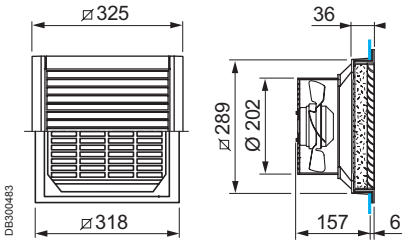
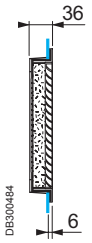
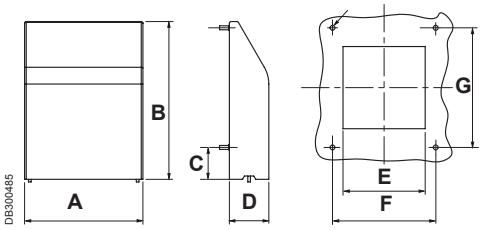


NSY17998



Dimensions of IP 54 and EMC covers

Dimensions (mm)									
A	B	C	D	E	F	G	Nb. of fixing points	Cover reference	
								IP 54	CEM
180	240	49	60	125	157	182	4	NSYCAP125LZF	NSYCAP125LXF	NSYCAP125LE
305	350	61	80	223	283	280	8	NSYCAP223LZF	NSYCAP223LXF	NSYCAP223LE
373	430	73	105	291	351	348	8	NSYCAP291LZF	NSYCAP291LXF	NSYCAP291LE



Ventilation systems
Fans by components

PB501060

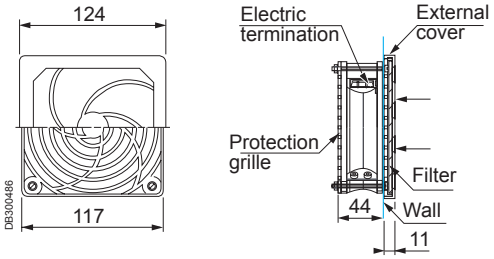
IP 20 fans

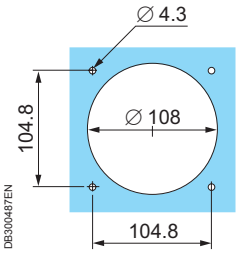
- Free flow without filter or grille: 170 m³/h.
- Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- Accessories: IP 20 outlet grille (ABS, black) and filter (black polyurethane foam).

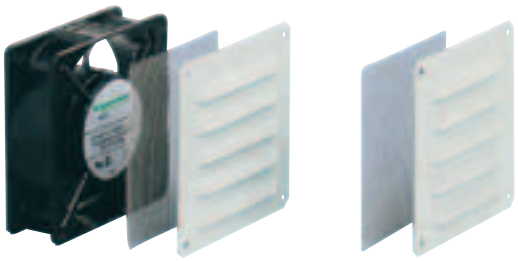
Voltage (V)	Flow rate (m³/h)	Reference
115	65	**NSYCVF65M115PF**
230	65	**NSYCVF65M230PF**

Accessories

Dimensions (mm)	Description	Reference
124 x 124 x 11 mm	Outlet grille	**NSYCAG108LP**
-	Filter	**NSYCAF108**



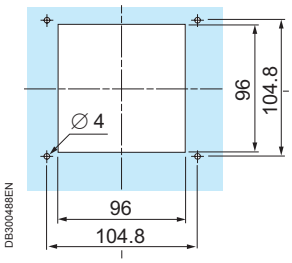


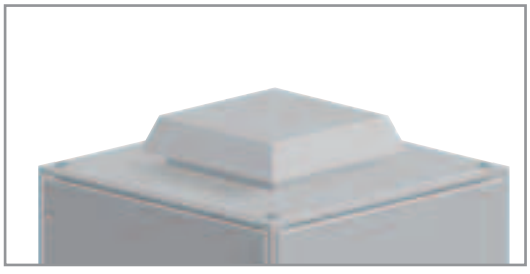

PB501061

IP 33 ventilation kit

- Ventilation kit comprised of:
  – one 120 120 x 120 x 38 mm fan, 230 V-50/60 Hz, free flow rate 170 m³/h, IP 33/IK 10.
  – two 120 x 120 mm metal louvres, RAL 7035.
  – two 115 x 98 mm anti-insect grilles, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes.
  – A power cord.
  – The fixings required for installation.
- Overall flow rate: 54 m³/h.
- Resistance to mechanical impacts: IK 10.

Voltage (V)	Flow rate (m³/h)	Reference
230	54	**NSYCVF54M230MM2**




PB501062

Top hood with fan
ref. **NSYCVF575M230MF** / **NSYCVF570M115MF**

Top hood with fan

- Fan with hood, for floor-standing enclosures.
- Device delivered with fixings and connection terminal block.
- Electric power: 85 W.
- A flow rate of 350 m³/h is obtained with an outlet grille ref. **NSYCAG291LPF**, (cut-out 291 x 291 mm).
- Noise level: 64 dB (A).
- Installation and removal from the outside.

Flow rate* (m³/h)	Voltage (V)	Weight (kg)	Reference
570	115	5.8	**NSYCVF570M115MF**
575	230	5.8	**NSYCVF575M230MF**

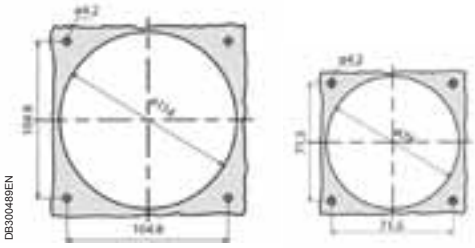
* Flow rate measured without counter-pressure.

Ventilation systems
Fans by components

PB501063

Fan motor

- Turbine-type fan motor for ventilation/extraction.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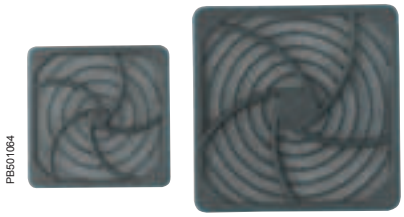
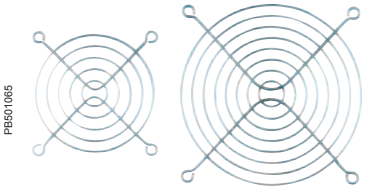

PB501064

Outlet grilles

- Outlet filter kit for enclosure ventilation. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.


PB501065

Rear protective grille

- Protective grille for enclosure fan motor. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.

PB501066

Fan connection cable

- For coupling to the connection terminal of the fan motors.

Reference
NSYCVAC100

Fan motor reference	Flow rate (m^3/h)	Voltage (V)	Absorbed power (W)	Noise level (dB)	External dimensions (mm)	Outlet grille reference	Protective grille reference
NSYCVF156M230	156	230/50-60	17/15	42	120 x 120 x 38	**NSYCAG114LPF**	**NSYCVA114M**
NSYCVF156M115	156	120/50-60	17/15	42	120 x 120 x 38	**NSYCAG114LPF**	**NSYCVA114M**
NSYCVF35M230	35	230/50-60	16/14	32	80 x 80 x 25	**NSYCAG78LPF**	**NSYCVA78M**
NSYCVF35M115	35	120/50-60	16/14	32	80 x 80 x 25	**NSYCAG78LPF**	

Ventilation systems
Circulating

PB501067

Circulation fan

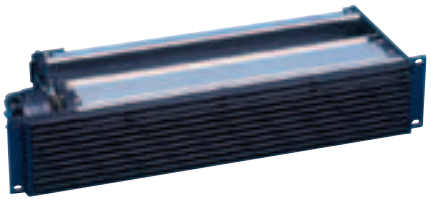
- User protection according to DIN 31001.
- Power: 17 W.
- Dimensions:

– Fan: 119 x 119 x 38 mm.
– Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm.

- Installation on ball-bearing.

Flow rate (1) (m^3/h)	Voltage (V)	Weight (kg)	dB (A)	Reference
170	115	0.82	41	**NSYCVF170M115**
170	230	0.82	41	**NSYCVF170M230**

(1) Free flow.

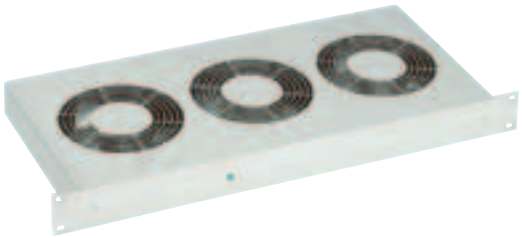

PB501068

Tangential fan, 19" 2 U

- Air is sucked in from the front, filtered and forced vertically through the equipment.
- Voltage: 230 V/50-60 Hz.
- Electric power: 37 W.
- Delivered without connection cord.

Flow rate (1) (m^3/h)	Voltage (V)	Reference
300	230	**NSYAVG2U300**

(1) Flow rate measured without counter-pressure.

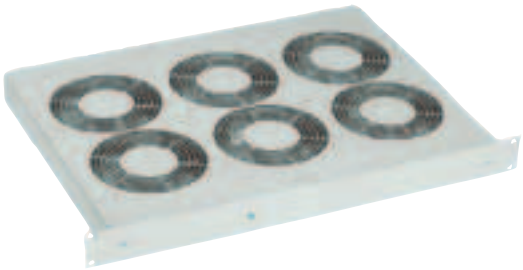

PB501069

Circulation fan, 19" 1 U

- Increases the speed of upward air circulation, in particular between trays with cards.
- Frontal operation LED.
- Delivered without connection cord.
- It is advisable to install slides, ref. **NSYGB140** to guarantee optimal support of the fan.

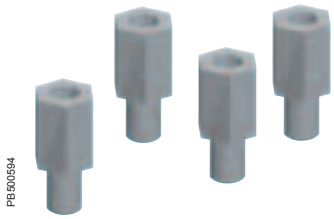
Flow rate (1) (m^3/h)	Voltage (V)	No.	Weight (kg)	Reference
486	230	3	3.3	
972	230	6	5.5	
1458	230	9	7.8	
552	48 (2)	3	3.3	

(1) Flow rate measured without counter-pressure.
(2) Direct current.


PB501070

P (W)	I (mA)	dB (A)	Depth (mm)	Reference
45	300	43	208	**NSYAVD1U480**
90	600	44	330	**NSYAVD1U970**
135	900	45	452	**NSYAVD1U1450**
21.3	330	43	208	**NSYAVD1U550M48**

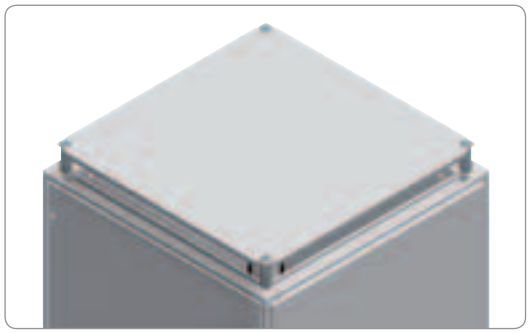
Ventilation systems
Natural airing


PB500594

Roof elevators

- Allow the roof to be raised, providing natural airing.
- They are screwed onto the structure, at the roof fixing point.
- Material: zinc-coated steel.
- Supply: 4 elevators.

Top elevation (mm) (H)	Reference
26	**NSYRE26**
60	**NSYRE60**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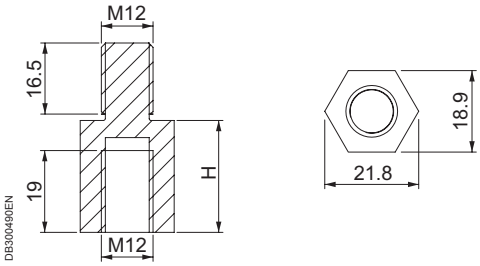

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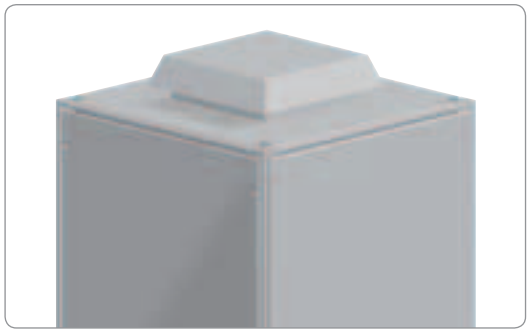
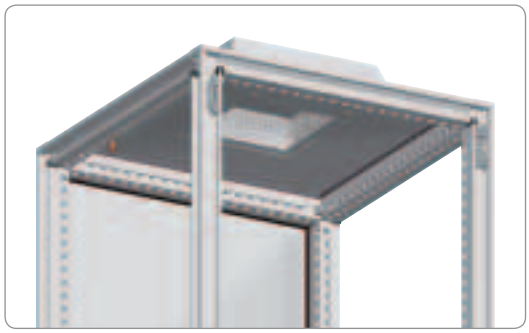
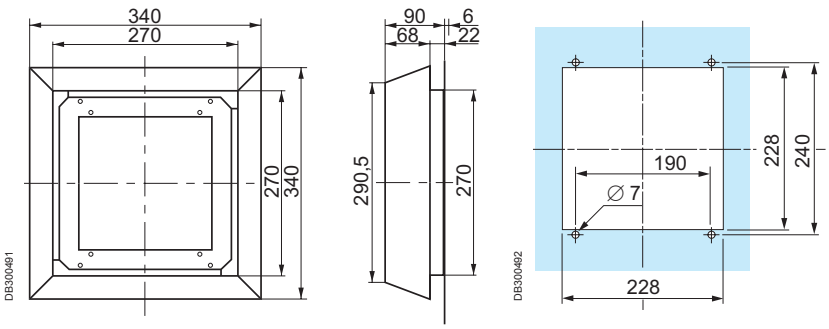

PB501062

Hood for natural airing, IP 54

- Natural airing device for coupling to the top of metal floor-standing enclosures.
- Solution for combining with the ventilation slots.
- Fixing to the top by means of caged nuts and special screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Protection rating: IP 54.
- Weight: 4.6 kg.
- Supply: one hood for natural airing and fixing elements.

Reference
NSYCAC228RMF


PB501071



DB300491
DB300492

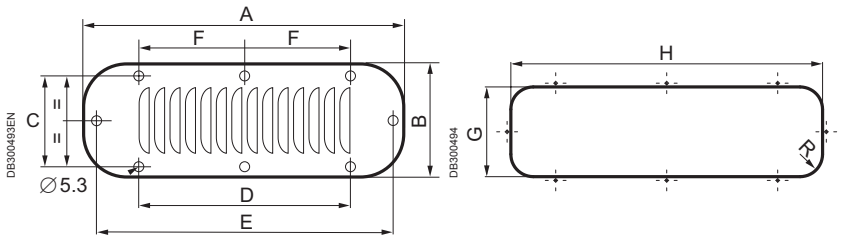
Spare filter

Reference
NSYCAF228R

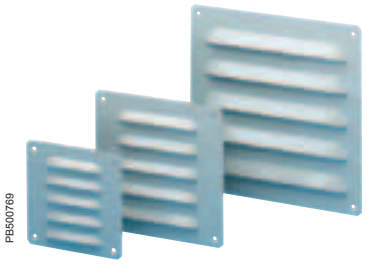
Ventilation systems
Natural airing

Metal louvre plate, rectangular

- Louvres designed to be installed on the sides of the enclosure.
- Fixing by screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Supply: one metal louvre and fixing elements.
- Protection rating: IP 20.

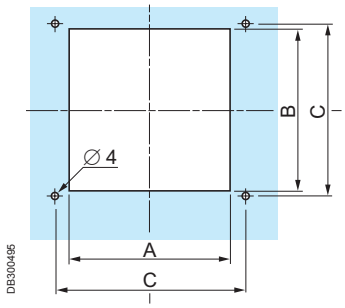


Dimensions (mm)									Reference
A	B	C	D	E	F	G	H	R	
144	62	36	110	-	-	110	46	10	**NSYCAG110X46M**
208	90	72	94	190	-	180	62	18	**NSYCAG180X62M**
244	90	72	130	226	-	216	62	18	**NSYCAG216X62M**
345	118	100	231	327	115.5	317	90.5	30	**NSYCAG317X91M**
345	148	130	231	327	115.5	317	120	30	**NSYCAG317X120M**
445	148	130	267	427	148.5	417	120	30	**NSYCAG417X120M**

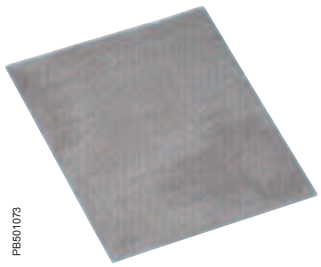


Metal louvre plate, square

- Supply: one metal louvre.
- Protection rating: IP 23.



Dimensions (mm)	A	B	C	Slot width	No. of slots	Reference
120 x 120	95	104	104.8	90	5	**NSYCAG104X95LM**
160 x 160	110	130	140	100	5	**NSYCAG130X110LM**
220 x 220	190	170	200	180	5	**NSYCAG170X190LM**

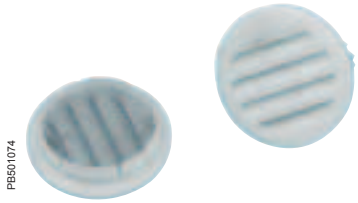


Anti-insect filters for metal louvre plate, square

- Installation is made between the enclosure and the metal louvre.
- Material: Stainless steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm.
- Increases protection rating to IP 33.
- Weight: 0.8 kg/m².
- Supply: one anti-insect filter.

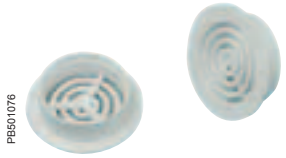
Louvre plate reference	External dimensions (mm)	Filter reference
NSYCAG104X95LM	98 x 115	**NSYCAF104X95X**
NSYCAG130X110LM	133 x 158	**NSYCAF130X110X**
NSYCAG170X190LM	197 x 215	**NSYCAF170X190X**

Ventilation systems
Natural airing



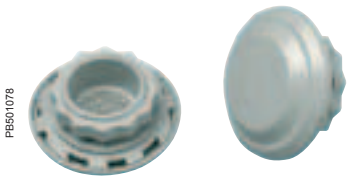
NSYCAG45LP

NSYCAG33LP



NSYCAG35LP

NSYCAG19LP



NSYCAG38LP

NSYCAG12LPH●

Plastic ventilation louvres

- Four models available according to IP rating, in vertical position.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

cut-out Ø	IP	Reference
45.5 mm	22	**NSYCAG45LP**
35 mm	30/44 (1)	**NSYCAG35LP**
38 mm	45	**NSYCAG38LP**
33 mm	44	**NSYCAG33LP**
19 mm	45	**NSYCAG19LP**

(1) According to installation in the Thalassa enclosure.

Sealed anti-condensation valve

- Controls the pressure to avoid condensation following an internal temperature increase.
- Maintains IP 68.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent.
- Temperature of use: –40…+105 °C.

Cut-out Ø	Permeability (1)	Pressure difference (2)	Minor pack.	Reference
M12	16 litres/h	ΔP < 1 bar	10	**NSYCAG12LPH1**
M12	120 litres/h	ΔP < 0.1 bar	10	**NSYCAG12LPH2**

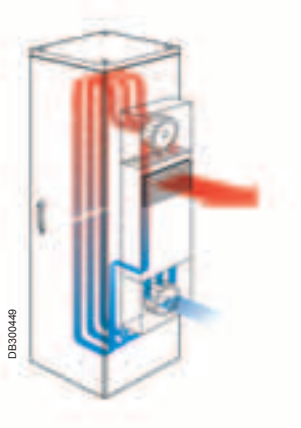
(1) Air flow under ΔP = 0.07 bar.
(2) Condition for IP 68.

Applications

- Protection of equipment for lighting, industrial control, rolling systems, pumps, etc.

Air-air exchanger
Introduction

PB501079

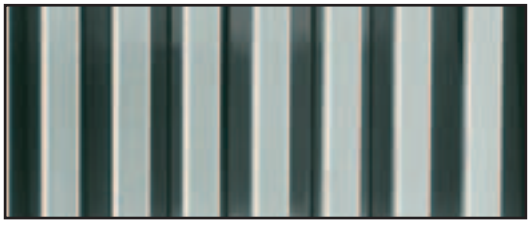

DB300449

PB501022

Complete range of solutions, meeting all requirements

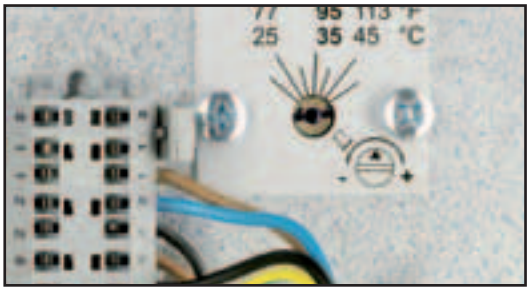
- Available in two installation versions: top-mounting model or side-mounting model.
- Power from 15 W/ºK to 70 W/ºK .

Air-air exchanger
Introduction


PB501085

Easy maintenance of the exchange cassette

- Easy access to the inside of the ventilation system allowing easier cleaning and maintenance.
- The special configuration of the exchange cassette makes it easier to clean. The space between the slats allows access to the inside aluminium walls for easy maintenance.



PB501086

Built-in thermostat

The exchangers are equipped as standard with an adjustable thermostat which controls the temperature inside the enclosure and which:
- Avoids the need to install an auxiliary thermostat.
- Guarantees the correct reading of the temperature inside the enclosure.

Temperature control range: +20...+50 °C.

PB501087

Without the need of filter

The air-air exchangers do not need to use any filters; they therefore require very little maintenance.

DB300455

Guaranteed sealing

The internal and external air circuits are independent. The assembly guarantees IP 54.
Two fans guarantee air circulation in each one of the circuits:
- Internal circuit fan:
  It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- External circuit fan:
  The internal thermostat controls the fan of the external circuit and starts it up when the internal temperature exceeds the maximum value displayed.

Air-air exchanger
Applications

PB501088

Air circuits separation for very harsh environments

The specific configuration of the air-air exchangers is the ideal solution for cooling electric enclosures installed in highly polluted environments.
It is advisable to use this type of device in cases where the ambient temperature is at least 5 ºC lower than the desired internal temperature.
The exchanger is specially recommended in cases in which:
- The internal and external air circuits must be independent.
- The air inlet filters can be blocked by a large concentration of dust or greasy material in suspension.

PB501089

PB501090

Solution

The air-air exchanger is the ideal solution for cooling the inside of floor-standing enclosures installed in the following environments:
- Cement works.
- Ceramic factories.
- Workshops.
- Wastewater treatment plants.

PB501091

Installation tips

- Make the cut-outs in accordance with the indications of the cut-out template enclosed with the device.
- Make sure the devices are not damaged by external impacts.
- Do not install any cable ducts or devices against the opening of the enclosure since the air flow, and therefore the performance of the exchanger, could be affected.
- Do not obstruct, even partially, the air inlets and outlets. A minimum distance of 40 cm must be left between these openings and a wall or a partition.
- Install the side-mounting exchanger as high as possible to aspirate hot air and improve circulation.

PB501092

Air-air exchanger
Selection guide

PB501022

PB501093

PB501094

Dimensions (mm)			Performance	Voltage	Assembly	Built-in thermostat	Reference
Height	Width	Depth					
700	270	144	15 W/°K	230 V/50 Hz-60 Hz	Side	Yes	**NSYCEA15W230VL**
780	325	144	35 W/°K	230 V/50 Hz-60 Hz	Side	Yes	**NSYCEA35W230VL**
780	325	144	35 W/°K	230 V/50 Hz-60 Hz	Side	No	**NSYCEA35W230VLE**
1480	450	144	70 W/°K	230 V/50 Hz-60 Hz	Side	Yes	**NSYCEA70W230VL**
340	600	360	50 W/°K	230 V/50 Hz-60 Hz	Top	Yes	**NSYCEA50W230VRE**

Air-air exchanger
Side-mounting models

PB501095

PB501096

General characteristics

- Main components: thermostatic adjustment system, exchange cassette, circulation fans for internal and external circuits.
- The desired temperature inside the enclosure can be adjusted over a range of +25 ... +50 °C.
- The internal and external air circuits are completely separated (IP 54). Two fans guarantee air circulation in each of these circuits. The one on the internal circuit (which circulates the air inside the enclosure) is permanently on to avoid the appearance of hot spots in the electric circuits or components.
- The devices are delivered with a cut-out template, an instruction sheet and a sealing gasket to be placed between the exchanger and the enclosure.
- RAL 7035 grey.
- Voltages on demand with 400 V AC, three phase or single phase.

Conditions of use

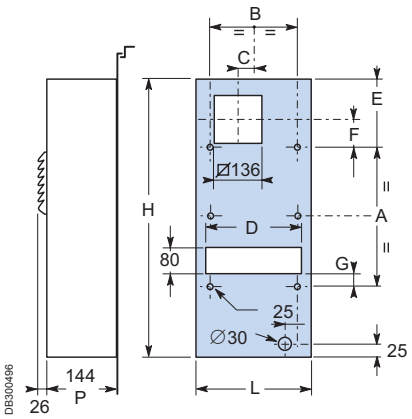
- The exchangers can only be used if the outside temperature is at least 5 ºC lower than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air: at least IP 54.

	Reference			
	NSYCEA15W230VL	**NSYCEA35W230VL**	**NSYCEA35W230VLE**	**NSYCEA70W230VL**
Cooling characteristics				
Specific power (1)	15 W/°K	35 W/°K	35 W/°K	70 W/°K
Air flow of the external circuit	200 m^3/h	450 m^3/h	450 m^3/h	450 m^3/h
Air flow of the internal circuit	200 m^3/h	450 m^3/h	450 m^3/h	450 m^3/h
Exchange surface	1.23 m^2	1.5 m^2	1.5 m^2	6.6 m^2
Adjustment	Yes	Yes	No	Yes
Type	Thermostatic	Thermostatic	-	Thermostatic
Temperature setting range	+25...+50 °C	+25...+50 °C	-	+25...+50 °C
Nature of the fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Starting/rated current	2.1/0.7 A	2.1/0.7 A	2.1/0.7 A	2.1/0.7 A
Electrical energy absorbed	150 W	150 W	150 W	150 W
Physical characteristics				
External dimensions A x B x C (mm)	700 x 270 x 144	780 x 325 x 144	780 x 325 x 144	1480 x 450 x 144
Internal IP / external IP	IP 54/IP 22	IP 54/IP 22	IP 54/IP 22	IP 54/IP 22
Weight of unit	12 kg	15 kg	15 kg	35 kg
Noise level	64 dB	64 dB	64 dB	64 dB

(1) The power in watts is obtained by multiplying the specific power by the difference between inside temperature and outside temperature.
Example: for exchanger ref. **NSYCEA35W230VL** with Δ °C = 10°, the system power is 35 x 10 = 350 W.

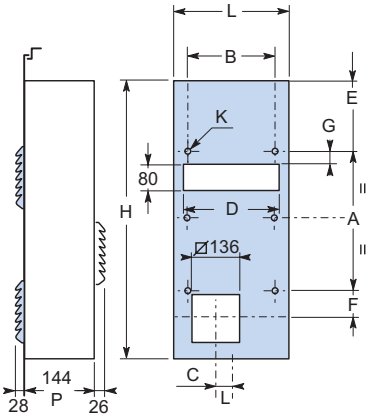
Air-air exchanger
Side-mounting models

External mounting



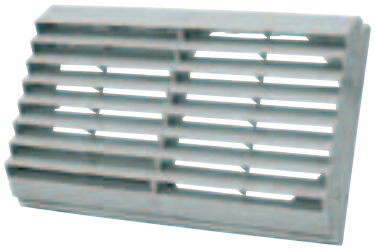
DB300496

Internal mounting

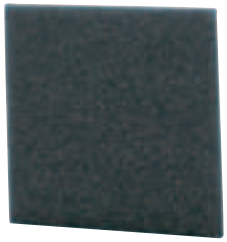


Dimensions in mm	NSYCEA15W230VL	NSYCEA35W230●●●	NSYCEA70W230VL
A	366	413	1113
B	226	266	393
C	40	52	115
D	220	294	420
E	167	183.5	183.5
F	82	77.5	77.5
G	13	35.5	35.5
H	700	780	1480
K	4 x 8 Ø	4 x 8 Ø	6 x 8 Ø
L	270	325	450

Accessories for internal mounting of the exchanger



PB501097

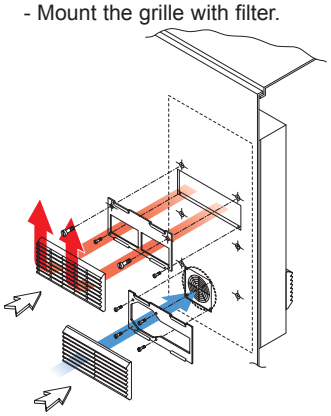


PB501098

- Installation principle of the filter-holder grilles when installing a side-mounting exchanger inside the enclosure.
- Filter ref. **NSYCEAF**.
- To be ordered in multiples of 24 filters.

For exchanger	Grille reference
NSYCEA15W230VL	NSYCEA15WG
NSYCEA35W230●●●	NSYCEA35WG
NSYCEA70W230VL	NSYCEA70WG

- Tips for installing the exchanger on the inside:
  - Place the top of the exchanger at the bottom and then turn it upside down. See diagram.
  - Change the thermostat connection.
  - Mount the grille with filter.



DB300497

Installation (internal mounting)

Air-air exchanger
Top-mounting model

NSYCEA50W230VRE

General characteristics

- Main components: thermostatic adjustment system, exchange cassette, circulation fans for internal and external circuits.
- The desired temperature inside the enclosure can be adjusted over a range of +25 ...+50 °C.
- The internal and external air circuits are completely separated (IP 54). Two fans guarantee air circulation in each of these circuits. The one on the internal circuit (which circulates the air inside the enclosure) is permanently on to avoid the appearance of hot spots in the electric circuits or components.
- The devices are delivered with a cut-out template, an instruction sheet and a sealing gasket to be placed between the exchanger and the enclosure.
- RAL 7035 grey.
- Voltages on demand with 400 V AC, three phase or single phase.

Conditions of use

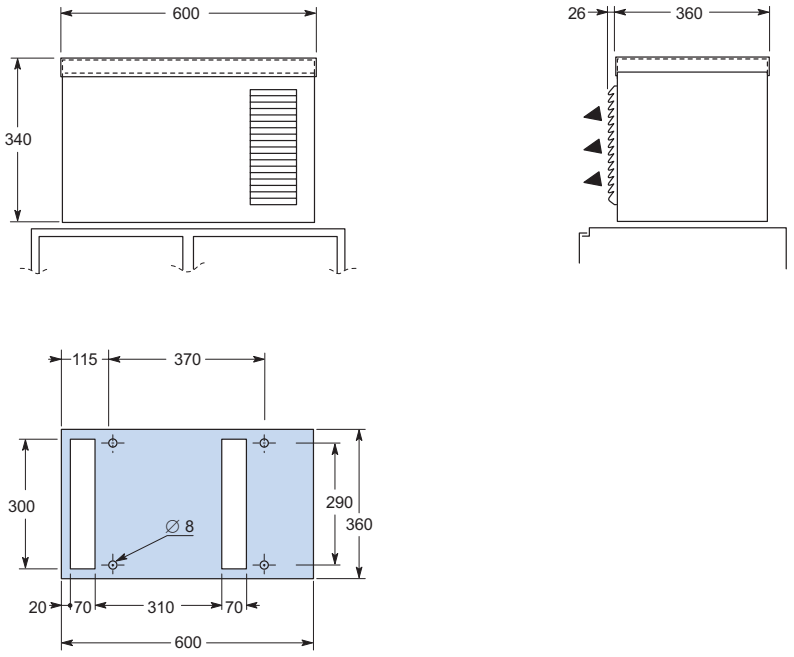
- The exchangers can only be used if the outside temperature is at least 5 °C lower than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air.

Reference	NSYCEA50W230VRE
Cooling characteristics	
Specific power (1)	50 W/°K
Air flow of the external circuit	450 m^3/h
Air flow of the internal circuit	450 m^3/h
Exchange surface	3.3 m^2
Adjustment	Yes
Type	Thermostatic
Temperature setting range	+20...+50 °C
Nature of the fluid	Air
Electric characteristics	
Input voltage	230 V - 50/60 Hz
Starting/rated current	2.1/0.7 A
Electrical energy absorbed	150 W
Physical characteristics	
External dimensions A x B x C (mm)	390 x 600 x 365
Internal IP / external IP	IP 54/IP 22
Weight of unit	19 kg
Noise level	64 dB

(1) The power in watts is obtained by multiplying the specific power by the difference between inside temperature and outside temperature.

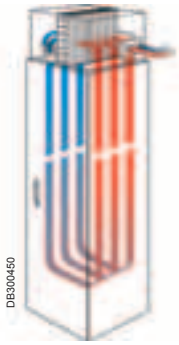
Air-air exchanger
Dimensions

Top-mounting model



Air-water exchanger
Introduction

PB501100


DB300450

PB501023

Side-mounting or top-mounting model.

Available in two installation versions: top-mounting model or side-mounting model.

Air-water exchanger
Introduction

PB501101

Easy maintenance

Easy and practical installation and removal. Easy access to the exchange battery allows for easier cleaning.
The principle of the air-water exchanger does not require inlet filters, thus reducing maintenance.

PB501102

Internal temperature control

The exchangers are equipped as standard with an adjustment thermostat that controls the temperature inside the enclosure. It avoids the need to install an auxiliary control thermostat and guarantees a precise reading of the temperature inside the enclosure.
Temperature control range: +20...+50 °C.

PB501103

Guaranteed sealing

- Guaranteed protection rating: IP 54.
- The fan runs permanently to maintain an even temperature inside the enclosure and prevent the appearance of hot spots.

PB501104

ANTI-LEAK system

Maximum safety

- The thermostat controls the water inlet electro-valve and regulates the temperature. The risk of condensation is therefore very low.
- In cases of a loss in the circuit, the detection system automatically closes the water inlet.

Air-water exchanger
Applications

PB501105

- Minimum maintenance in very difficult environments.
- The air-water exchanger is recommended even when the ambient temperature is higher than the desired internal temperature.
- It is particularly suitable for highly polluted environments since it fully prevents the entrance of outside air.
- The heat produced by the components is evacuated to the outside of the workshop.

Examples: printing presses, paper plants, chemical factories, etc.

PB501106

Installation tips

- Make the cut-outs in accordance with the indications of the cut-out template delivered with the device.
- Make sure the devices are not damaged by external impacts.
- Do not install any cable ducts or devices against the openings of the enclosure since the air flow, and therefore the performance of the exchanger, would be reduced.
- Interrupt the operation of the exchanger when the door of the enclosure is open.
- Make sure there is a water source near the electric enclosure with stable temperature and flow rate (cold-water supply and evacuation of reheated water).

PB501107

Air-water exchanger
Selection guide

Dimensions (mm)			Cooling power L 35/W 10/200 W	Voltage	Assembly	Reference
Height	Width	Depth				
830	360	113	2100 W	230 V/50 Hz-60 Hz	Side	**NSYCEW2100W230VL**
950	400	190	3150 W	230 V/50 Hz-60 Hz	Side	**NSYCEW3150W230VL**
310	600	365	2100 W	230 V/50 Hz-60 Hz	Top	**NSYCEW2100W230VR**

Air-water exchanger
Side and top-mounting models

PB501108

General characteristics

- Main components: thermostatic adjustment system, exchange cassette, fans for the internal circuit of the enclosure, safety device against possible leaks.
- The desired temperature inside the enclosure can be adjusted over a range of +25...+50 °C.
- The alarm which detects an interruption in the water circuit is activated by closing a switch. This can be used to activate a light or a siren, connected to the input of an automation device. The water supply is automatically cut.
- System for evacuating condensation water to the outside.
- RAL 7035 grey.

Conditions of use

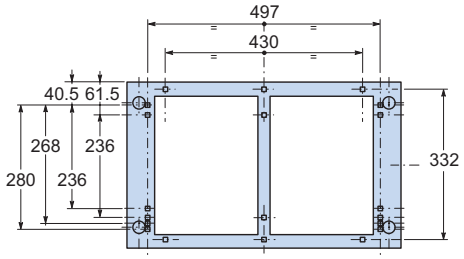
- Air-water exchangers can be used even when the outside temperature is higher than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air: at least IP 54.

	Reference		
	NSYCEW2100W230VR (top)	NSYCEW2100W230VL (side)	NSYCEW3150W230VL (side)
Cooling characteristics			
Specific power A 35 W 10-200 l/h	2100 W	2100 W	3150 W
Maximum water pressure	1 MPa	1 MPa	1 MPa
Air flow of the external circuit	250 m^3/h	350 m^3/h	820 m^3/h
Adjustment	Yes	Yes	Yes
Type	Thermostatic	Thermostatic	Thermostatic
Temperature setting range	+25...+50 °C	+25...+50 °C	+8...+50 °C
Nature of the fluid	Water	Water	Water
Electric characteristics			
Input voltage	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Starting/rated current	1/0.5 A	1/0.5 A	1.3/1.7 A
Electrical energy absorbed	90 W	90 W	295 W/385 W
Type of switching alarm	Inverter contact	Inverter contact	Inverter contact
Physical characteristics			
External dimensions A x B x C (mm)	310 x 600 x 365	830 x 360 x 113	950 x 400 x 190
IP-DIN 40050	IP 54	IP 54	IP 55
Weight of unit	26 kg	19 kg	21 kg
Noise level	64 dB (A)	62 dB (A)	54 dB (A)

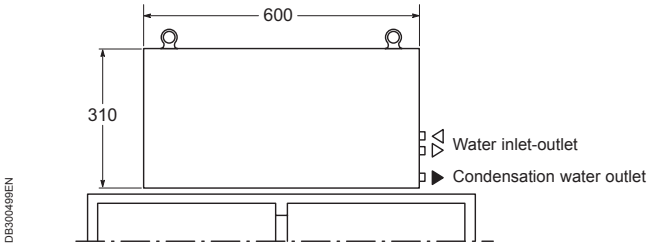
Air-water exchanger
Dimensions

Top-mounting model

Supplies:
- Cut-out template.
- Mounting accessories.
- Installation and operation instructions.

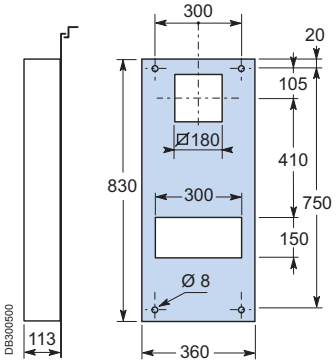


Front view of the enclosure



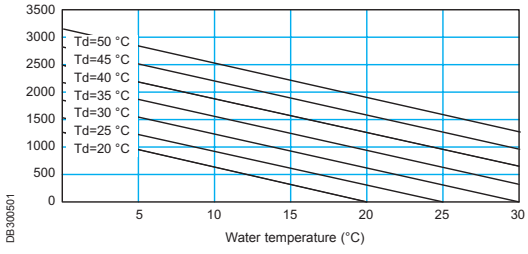
Side-mounting model

Supplies:
- Cut-out template.
- Mounting accessories.
- Installation and operation instructions.
- Installation inside or outside the enclosure.

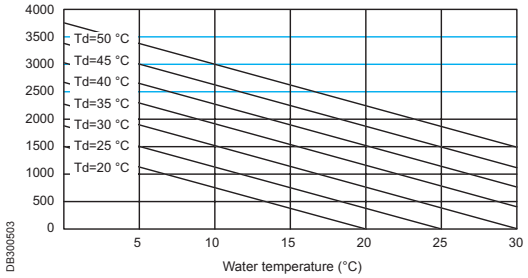


Curves

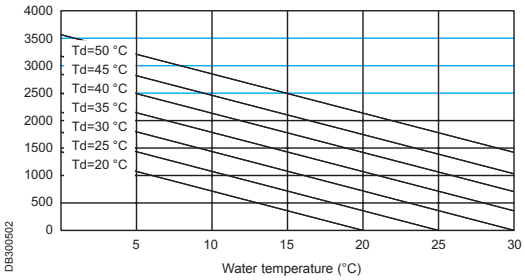
Power exchanged by the exchangers for a water flow of 100 l/h.



Power exchanged by the exchangers for a water flow of 300 l/h.



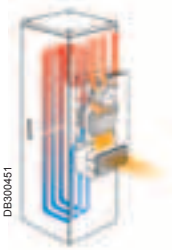
Power exchanged by the exchangers for a water flow of 200 l/h.



Example: For a water flow of 100 l/h at 15 °C with a desired temperature of 35 °C.
Power = 1400 W.

Cooling unit with mechanical control
Introduction

PB501110


DB300451

PB500071 PB501111 PB501112 PB501024

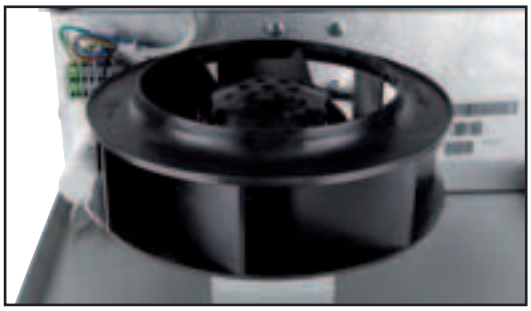
Complete range of solutions, meeting all requirements

- Available in two installation versions: top/side mounting or partial flush model.
- The power of the cooling units with mechanical control ranges from 240 W to 4000 W. This means you will find the equipment that best meets your needs.
- Easy and practical installation and removal.

55 °C

Withstands extreme environments

- Equipped with high-pressure compressors, the cooling units guarantee an optimum operation with temperatures of up to 55 °C.


PB501113

Guaranteed sealing

The internal and external air circuits are completely separated and maintain the protecting rating of IP 54.
Two fans guarantee air circulation in each one of the circuits:

- **Fan on the internal circuit**
  It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure. In addition, it provides a correct reading of the temperature inside the enclosure thanks to the thermostat setting.
- **Fan on the external circuit**
  The internal thermostat controls the fan and starts it up when the internal temperature exceeds the maximum value displayed.

Very high efficiency: The best is in the inside

The internal components have been chosen for maximum efficiency and performance.

Cooling unit with mechanical control
Introduction

PB501102

Built-in thermostat

The cooling units are equipped with an adjustable thermostat which controls the temperature inside the enclosure:
- It avoids the installation of an auxiliary control thermostat.
- It guarantees the exact reading of the temperature inside the enclosure.
  Temperature control range: +20...+50 ºC (pre-set and recommended temperature of 35 ºC).

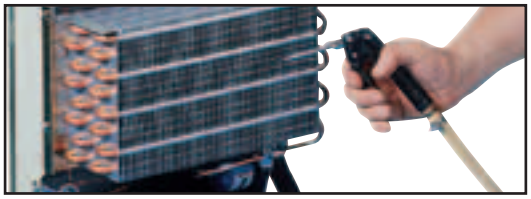
PB501114

Automatic evaporation system (top mounting)

- The top-mounting models are additionally equipped with a device for evaporating and controlling the condensation water level which causes the machine to halt or triggers the alarm if the level is exceeded.
- They also have an exclusive evacuation system for draining the water stored in the condensation tray.

Maximum safety

- They are equipped as standard with an automatically reset pressostat, which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- In the event of a breakdown, a relay triggers an alarm and halts the operation of the cooling unit.


PB501101

Easy maintenance

- Easy access to the condenser allows easier cleaning by blowing.
- The high-pressure compressor and the external fan can be maintained without removing the unit.

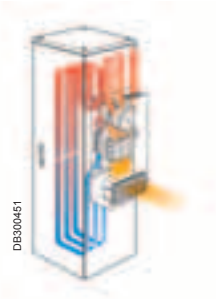
Environmentally friendly

- Respect for the environment.
- Use of ecological gas R134a (HFC).

ENVIRONMENTALLY FRIENDLY

Cooling unit with electronic control
Introduction

PB501115


DB300451

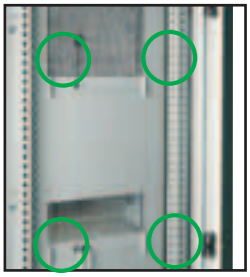
PB501116

Complete range of solutions, meeting all requirements

- Available in two installation versions: top-mounting model or side-mounting model.
- The power of the cooling units with electronic control ranges from 1100 W to 1800 W (the SLIM range offers powers of 1100 W to 2700 W).
  This means you will find the equipment that best meets your needs.

Cooling unit with electronic control
Introduction

PB501117


PB501118

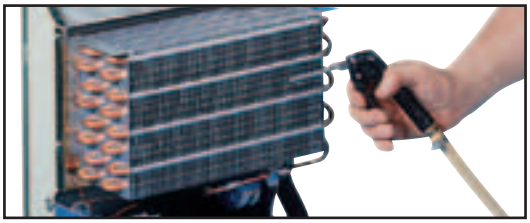
Easy installation

Easy and practical installation and removal

The side-mounting models have an exclusive quick-installation system:
- Two retractable handles allow them to be installed instantly by a single person.
- The quick-fixing device with no screws simplifies the installation on the enclosure and guarantees a protection rating of IP 54.
- The electrical connection is made by means of the supplied removable connectors.

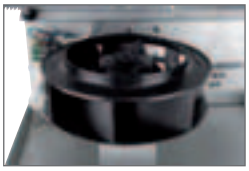
A single cut-out dimension

One single machining size, regardless of the power of the side-mounting cooling unit.


PB501101

Easy maintenance

Easy access to the inside of the device allows easier cleaning and maintenance. Thanks to its design, no filter needs to be used in most applications. Nevertheless, in especially polluted environments, it is advisable to install a filter on the external air circuit.
The design of the aluminium slats of the condenser allow for easier, less-frequent maintenance.


PB501113

Guaranteed sealing

The internal and external air circuits are completely separated and maintain the enclosure's protection rating of IP 54.
Two fans guarantee air circulation inside each of the circuits:
- **Fan on the internal circuit**
  It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- **Fan on the external circuit**
  The internal thermostat controls the fan and starts it up when the internal temperature exceeds the maximum value displayed.

PB501119

Electronic temperature control

Electronic control allows:
- Precise control of the temperature setting:
  – Switches on the compressor with setting temperature +1 ºC.
  – Switches off the compressor with setting temperature -5 ºC.
- Door switch management,
- Alarm management,
- Alarm reset,
- Control of the operating and stand-by times of the compressor.

PB501114

Automatic evaporation system

All the models are equipped with a system for automatically evaporating condensation.

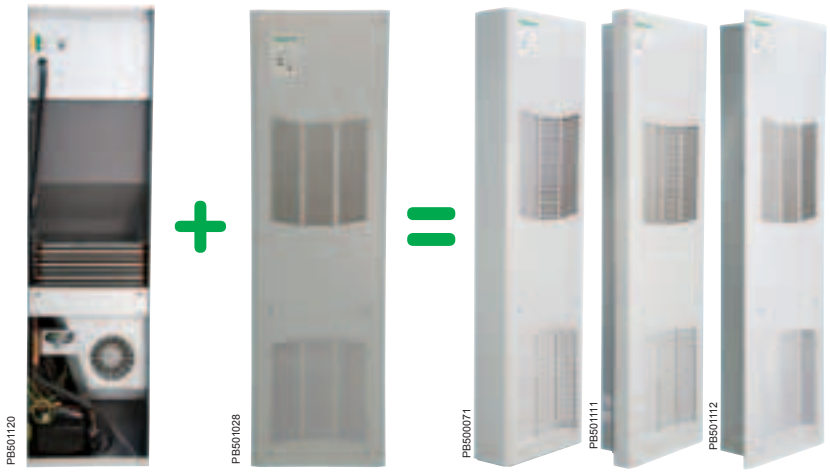
Environmentally friendly

- Respect for the environment.
- Use of ecological gas R134a (HFC).

ENVIRONMENTALLY FRIENDLY

Cooling unit
SLIM electronic control

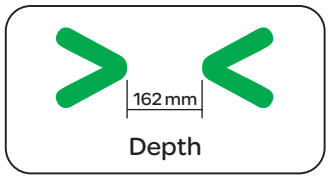
SLIM for perfect integration



1 bloc:
- 4 power levels
- 3 voltage levels

1 cover:
- Flush
- Partial-flush
- Surface

66 models, from 1100 to 2700 W, 115 to 460 V, flush mounting, partial-flush mounting or surface mounting, with or without electronic display, IP 55, UL compliant.



Minimum depth

All the models of the SLIM range have a depth of 162 mm to maximise the volume inside the enclosure.

Modular system

- There are 66 possible combinations with only 17 catalogue references.
- Three different installation types are possible with the same air-conditioning unit (surface, partial flush and flush).

Power ranges

1100 W, 1500 W, 2200 W and 2700 W.

PB501121

Versions

- RAL 7035 and stainless steel.
- Option to provide other colours on demand.

Internal IP 55

The SLIM range is supplied as standard with an expanded polyurethane gasket, ensuring optimum sealing with IP 55 throughout the enclosure.

Cooling unit
SLIM electronic control

PB501043

UL/UR certification

UL certification awarded for the entire SLIM range.

PB501120

The best is inside

The best material has been selected to offer maximum reliability and durability. The compressors, and the fans as well as the rest of the components are top quality.

Electronic regulation as standard

- Programmed to control the enclosure temperature of 35 ºC. This temperature should be enough to protect the electrical and electronic equipment installed in the enclosure.
- Supplied with an electronic thermostat to provide greater reliability and precision for the cooling unit.
- Electronic display as option for reading and controlling the temperature setting, ref. **NSYCUAY**.

55 ºC

High resistance to outside ambient temperatures of up to 55 ºC

The high-quality compressors used allow work to be performed in areas with extreme temperatures of up to 55 ºC.

ENVIRONMENTALLY FRIENDLY

Cooling fluid used: R134a (HFC)

This is a gas that respects the ozone layer.

Easy opening and closing of the covers

The cover of the cooling unit is released by simply unscrewing two screws. This saves time and facilitates maintenance tasks.

Easy maintenance

- Internal details such as the space between the aluminium plates enable easier access during the cleaning process.
- The inside can be accessed by removing only two screws.

Cooling unit
Selection guide

Side-mounting models

External dimensions (mm)	Cooling power EN 14511 L35 - L35 (50 Hz)	Input voltage Vol-Hz	Control	Reference
450 x 350 x 140	240 W (819 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU240W230VL**
620 x 300 x 170	370 W (1263 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU370W230VL**
800 x 350 x 195	760 W (2594 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU760W230VL**
900 x 400 x 195	1050 W (3584 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU1050W230VL**
1010 x 400 x 240	1100 W (3755 Btu/h)	230 V - 50/60 Hz	Electronic controller	**NSYCUE1100W230L**
1010 x 400 x 240	1400 W (4780 Btu/h)	230 V - 50/60 Hz	Electronic controller	**NSYCUE1400W230L**
1010 x 400 x 240	1400 W (4780 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	**NSYCUE1400W400L**
1000 x 400 x 220	1650 W (5631 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU1650W230VL**
1000 x 400 x 220	1800 W (6143 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU1800W400VL**
1010 x 400 x 240	1800 W (6145 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	**NSYCUE1800W400L**
1406 x 502 x 300	2500 W (8533 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU2500W400VL**
1406 x 502 x 300	4000 W (13652 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU4000W400VL**

Cooling unit
Selection guide

Top-mounting models

External dimensions (mm)	Cooling power EN 14511 L35 - L35 (50 Hz)	Input voltage Vol-Hz	Control	Reference
340 x 600 x 350	760 W (2594 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU760W230VR**
400 x 700 x 400	1050 W (3584 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU1050W230VR**
415 x 750 x 412	1400 W (4780 Btu/h)	230 V - 50/60 Hz	Electronic controller	**NSYCUE1400W230R**
400 x 700 x 400	1460 W (4983 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU1460W230VR**
430 x 700 x 400	1650 W (5631 Btu/h)	230 V - 50/60 Hz	Thermostat	**NSYCU1650W230VR**
415 x 750 x 412	1800 W (6145 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	**NSYCUE1800W400R**
430 x 700 x 400	2000 W (6826 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU2000W400VR**
470 x 800 x 450	2450 W (8362 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU2450W400VR**
470 x 800 x 450	3100 W (10580 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	**NSYCU3100W400VR**

SLIM electronic control models (modular)

- Flush mounting.
- Partial-flush mounting.
- Surface mounting.

	Power	1,100 W	1,500 W	2,200 W	2,700 W
Cooling unit block	230 V	**NSYCUB1100W230S**	**NSYCUB1500W230S**	**NSYCUB2200W230S**	**NSYCUB2700W230S**
	400-460 V (50-60 Hz)	**NSYCUB1100W400S**	**NSYCUB1500W400S**	**NSYCUB2200W400S**	**NSYCUB2700W400S**
	115 V	**NSYCUB1100W115S**	**NSYCUB1500W115S**	**NSYCUB2200W115S**	

Covers	Side-mounting type	
RAL 7035	Surface-mounting	**NSYCUCL**
	Partial flush-mounting	**NSYCUCH**
	Flush-mounting	**NSYCUCF**
Stainless-steel	Surface-mounting	**NSYCUCLX**
	Partial flush-mounting	**NSYCUCHX**
	Flush-mounting	**NSYCUCFX**

Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit
Mechanical control

NSYCU760W230VL

Side-mounting

Cooling units for electrical switchboards

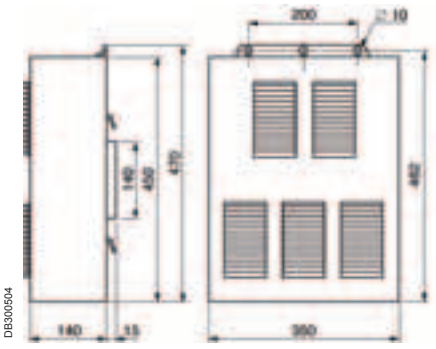
- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Cooling power from 240 W to 4000 W.
- Option of partial-flush mounting for certain models.

General characteristics

- The temperature setting can be adjusted from +20 to +50 ºC.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, interrupts the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Cooling power from 240 W to 4000 W.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

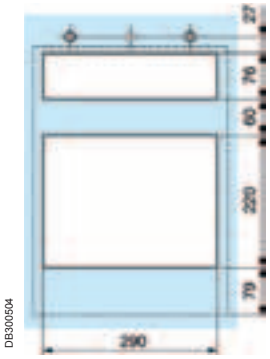
Reference	NSYCU240W230VL	NSYCU370W230VL	NSYCU760W230VL
Voltage	230 V, 50/60 Hz		
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 240 W (819 Btu/h) 190 W (649 Btu/h)	 370/390 W (1,263/1,331 Btu/h) 300/310 W (1,024/1,058 Btu/h)	 760/810 W (2,594/2,765 Btu/h) 610/640 W (2,082/2,184 Btu/h)
Dimensions Height Width Depth	 450 mm 350 mm 140 mm + (15 mm internal)	 620 mm 300 mm 170 mm	 800 mm 350 mm 195 mm
Intensity Starting current Rated current	 2.8 A 0.7 A	 5.8/6.7 A 1.5/1.8 A	 7.7/8.8 A 2.0/2.3 A
Power consumption absorbed L35-L35 L35-L50	 140 W 160 W	 290/330 W 330/380 W	 380/440 W 440/500W
Energy efficiency ratio (EER) L35-L35	 1.7	 1.3/1.2	 2.0/1.8
Control type	Thermostat		
Temperature setting range	+20...+45 °C	+20...+50 °C	
Maximum outside temperature	50 °C	55 °C	
Noise level	58 dB (A)	65 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	 160 m^3/h 320 m^3/h	 160/175 m^3/h 210/230 m^3/h	 350/385 m^3/h 350/385 m^3/h
Alarm type	Inverter contact		
Weight of unit	15 kg	21 kg	33 kg
Cooling gas type	R134a (0.25 kg)	R134a (0.3 kg)	R134a (0.5 kg)
IP (IEC 60529) On the internal circuit On the external circuit		 54 34	
External circuit filter	Option	Yes	
Assembly	Side		
Thermal protection recommended (fuse melt curve)	T1.6A	T3A	T3A

Cooling unit
Mechanical control

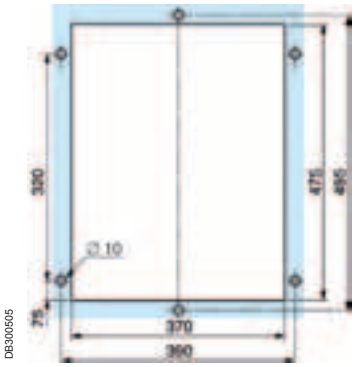


Reference **NSYCU240W230VL**

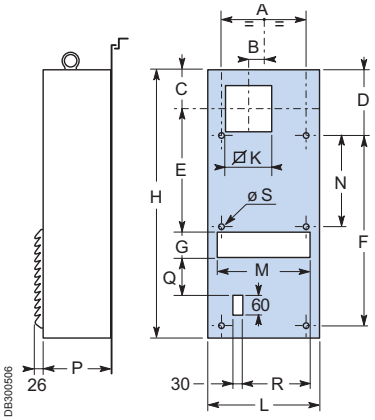
NSYCU240W230VL: dimensions and cut-outs



External mounting



Partial-flush mounting



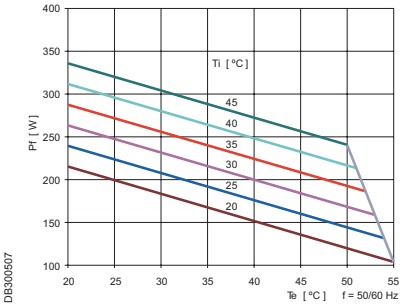
Reference **NSYCU370W230VL** and **NSYCU760W230VL**

NSYCU370W230VL and NSYCU760W230VL: cut-out

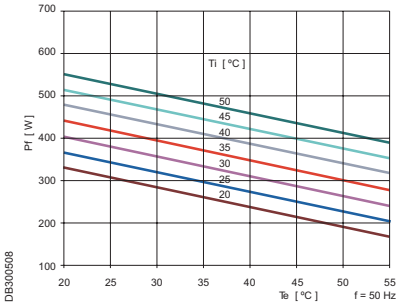
Dimensions in mm	NSYCU370W230VL	NSYCU760W230VL
A	260	266
B	0	52
C	80	116
D	40	193.5
E	300	375
F	540	413
G	60	80
H	620	800
K	136	136
L	300	350
M	240	294
N	-	-
P	170	195
Q	35	149
R	0	24
S	8	8

Curves

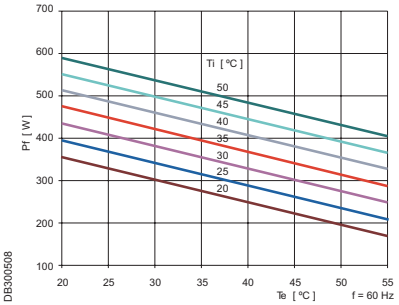
NSYCU240W230VL



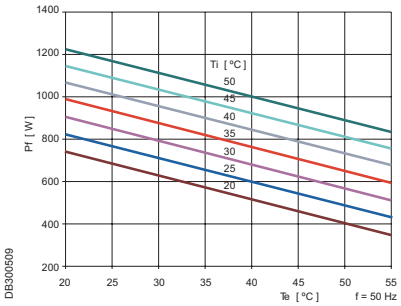
NSYCU370W230VL 50 Hz



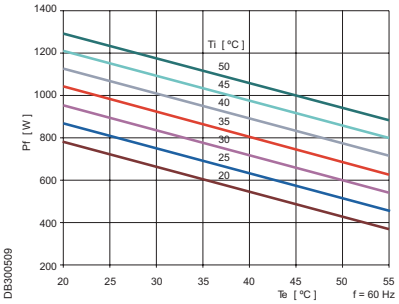
NSYCU370W230VL 60 Hz



NSYCU760W230VL 50 Hz



NSYCU760W230VL 60 Hz



Cooling unit
Mechanical control

NSYCU1650W230VL

Side-mounting

Cooling units for electrical switchboards

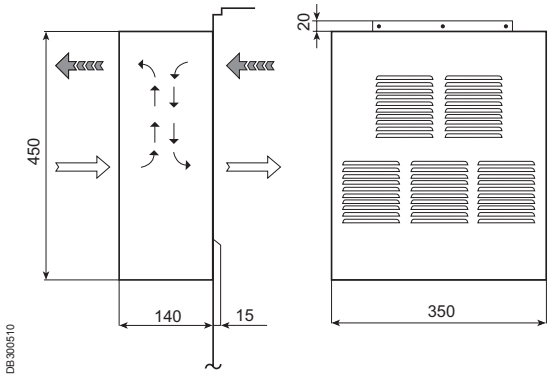
- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Cooling power from 240 W to 4000 W.

General characteristics

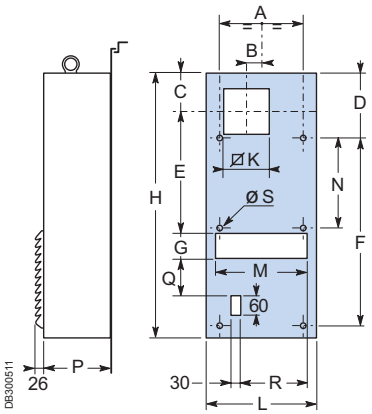
- The temperature setting can be adjusted from +20 to +50 ºC.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Cooling power from 240 W to 4000 W.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

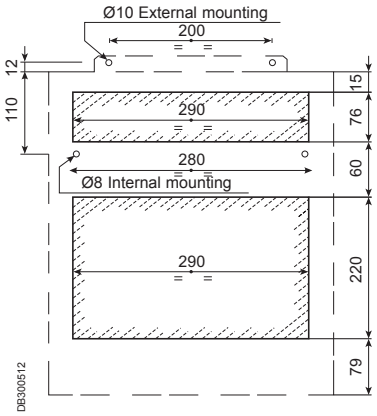
Reference	NSYCU1050W230VL	NSYCU1650W230VL
Voltage	230 V; 50/60 Hz	
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 1050/1100 W (3584/3755 Btu/h) 840/890 W (2867/3038 Btu/h)	 1650/1700 W (5631/5802 Btu/h) 300/1400 W (4438/4779 Btu/h)
Dimensions Height Width Depth	 900 mm 400 mm 195 mm	 1000 mm 400 mm 220 mm
Intensity Starting current Rated current	 10.1/11.6 A 2.7/3 A	 16.1/18.5 A 4.2/4.9 A
Power consumption absorbed L35-L35 L35-L50	 500/580 W 580/660 W	 800/920 W 920/1100 W
Energy efficiency ratio (EER) L35-L35	 2.1/1.9	 2.1/1.9
Control type	Thermostat	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	67 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	 350/385 m^3/h 510/560 m^3/h	 550/600 m^3/h 620/680 m^3/h
Alarm type	Inverter contact	
Weight of unit	39 kg	42 kg
Cooling gas type	R134a (0.7 kg)	R134a (0.75 kg)
IP (IEC 60529) On the internal circuit On the external circuit	 54 34	
External circuit filter	Yes	
Assembly	Side	
Thermal protection recommended (fuse melt curve)	T4A	T6A

Cooling unit
Mechanical control



Side-mounting models: dimensions

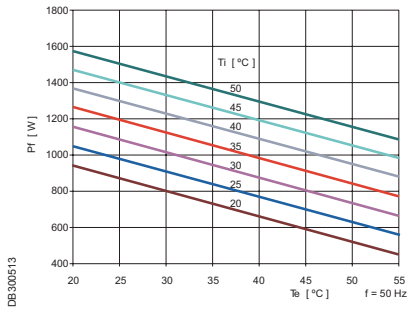




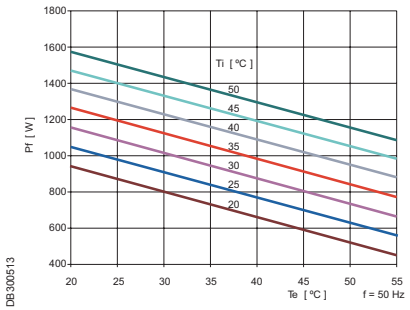
Dimensions (mm)	NSYCU1050W230VL	NSYCU1650W230VL	NSYCU1800W400VL
A	300	300	300
B	0	0	0
C	135	135	135
D	30	30	30
E	465	475	475
F	840	840	840
G	100	100	100
H	900	1000	1000
K	180	180	180
L	400	400	400
M	320	320	320
N	-	470	470
P	195	220	220
Q	35	25	25
R	195	195	195
S	0	10	10

Curves

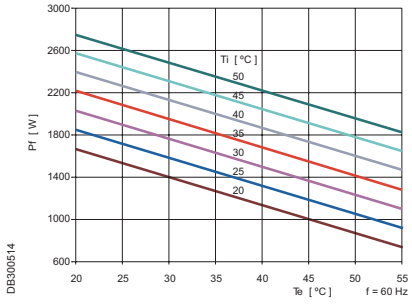
NSYCU1050W230VL 50 Hz



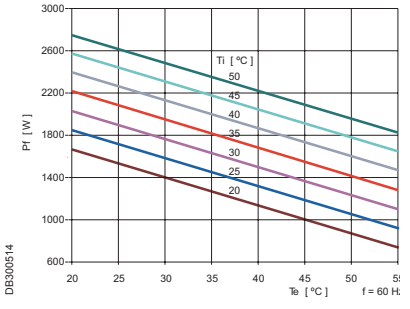
NSYCU1650W230VL 50 Hz



NSYCU1050W230VL 60 Hz



NSYCU1650W230VL 60 Hz



Cooling unit
Mechanical control

NSYCU4000W400VL, NSYCU1800W400VL

Side-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a.
- Cooling powers of 2500 W and 4000 W.

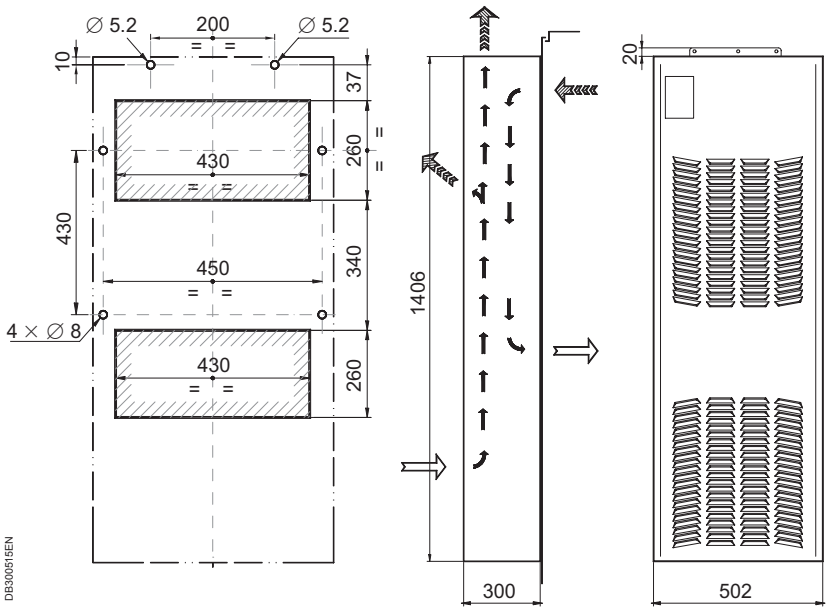
General characteristics

- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Option of partial-flush mounting.

Reference	NSYCU1800W400VL	NSYCU2500W400VL	NSYCU4000W400VL
Voltage	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 1800/1900 W (6143/6485 Btu/h) 1400/1500 W (4779/5121 Btu/h)	 2500/2600 W (8533/8876 Btu/h) 2000/2100 W (6828/7169 Btu/h)	 3800/4100 W (12973/13997 Btu/h) 3100/3300 W (10583/11266 Btu/h)
Dimensions Height Width Depth	 1000 mm 400 mm 220 mm	 1406 mm 502 mm 300 mm	 1406 mm 502 mm 300 mm
Intensity Starting current Rated current	 6.8/7.9 A 2.1/2.5 A	 9.8/12.1 A 2.6/3.2 A	 10.0/11.6 A 3.3/3.9 A
Power consumption absorbed L35-L35 L35-L50	 1200/1400 W 1400/1600 W	 1500/1800 W 1800/2100 W	 1900/2200 W 2200/2600 W
Energy efficiency ratio (EER) L35-L35	 1.5/1.4	 1.7/1.4	 2.0/1.9
Control type	Thermostat		
Temperature setting range	+20...+50 °C		
Maximum outside temperature	55 °C		
Noise level	69 dB (A)		
Air flow of the internal circuit of the external circuit	 550/600 m^3/h 620/680 m^3/h	 750/820 m^3/h 1200/1310 m^3/h	 1200/1340 m^3/h 1070/1190 m^3/h
Alarm type	Inverter contact		
Weight of unit	46 kg	75 kg	
Cooling gas type	R134A (0.75 kg)	R134a	
IP (IEC 60529) On the internal circuit On the external circuit (protection of cooling elements)	 54 34	 55 34	
External circuit filter	Yes	No (please consult us for aggressive environments)	
Assembly	Side		
Thermal protection recommended (fuse melt curve)	 T 3A	 T4 A	 T6 A

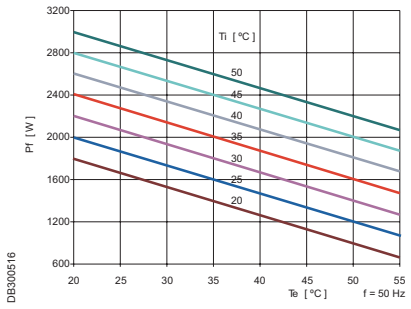
Cooling unit
Mechanical control

Side-mounting models: dimensions

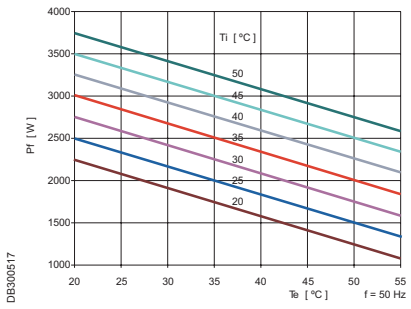


Curves

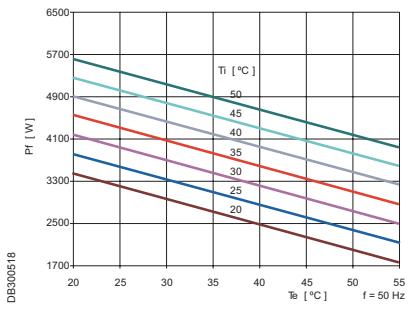
NSYCU1800W400VL 50 Hz



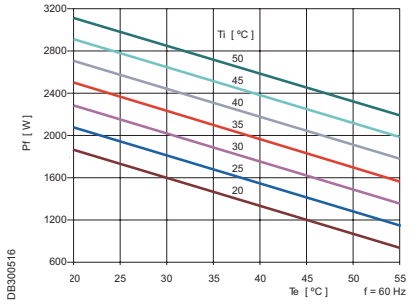
NSYCU2500W400VL 50 Hz



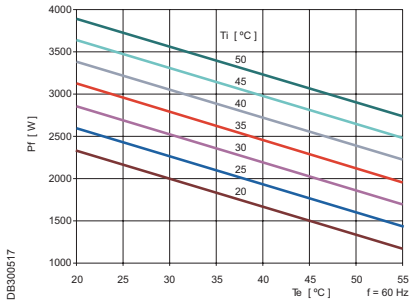
NSYCU4000W400VL 50 Hz



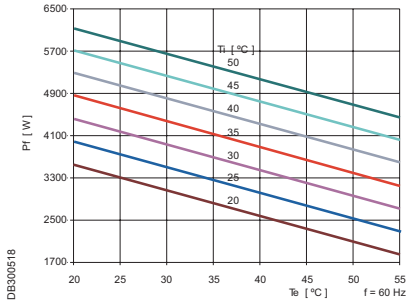
NSYCU1800W400VL 60 Hz



NSYCU2500W400VL 60 Hz



NSYCU4000W400VL 60 Hz



Cooling unit
Mechanical control

NSYCU1050W230VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

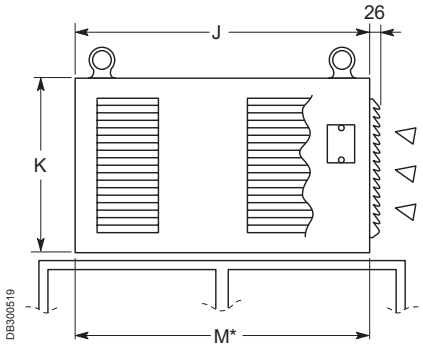
General characteristics

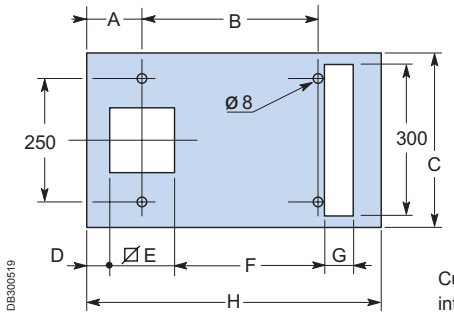
- The temperature setting can be adjusted from +20 to +50 ºC.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU760W230VR	NSYCU1050W230VR	NSYCU1460W230VR
Voltage	230 V; 50/60 Hz		
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 760/810 W (2594/2765 Btu/h) 610/640 W (2082/2184 Btu/h)	 1050/1100 W (3584/3755 Btu/h) 840/890 W (2867/3038 Btu/h)	 1460/1500 W (4983/5121 Btu/h) 1200/1200 W (4096/4096 Btu/h)
Dimensions Height Width Depth	 340 mm 600 mm 350 mm	 400 mm 700 mm 400 mm	
Intensity Starting current Rated current	 7.7 A/8.8 A 2 A/2.3 A	 10.1/11.6 A 2.7/3 A	 14.1/16.2 A 3.7/4.2 A
Power consumption absorbed L35-L35 L35-L50	 380/440 W 440/500 W	 500/580 W 580/660 W	 730/810 W 810/930 W
Energy efficiency ratio (EER) L35-L35	 2.0/1.8	 2.1/1.9	 2.1/1.9
Control type	Thermostat		
Temperature setting range	+20...+50 °C		
Maximum outside temperature	55 °C		
Noise level	67 dB	69 dB	
Air flow of the internal circuit of the external circuit	 350/385 m^3/h 350/385 m^3/h	 400/440 m^3/h 620/680 m^3/h	
Type of zero-potential alarm	Inverter contact		
Weight of unit	33 kg	41 kg	45 kg
Cooling gas type	R134a (0.5 kg)	R134a (0.7 kg)	R134a (0.75 kg)
IP (IEC 60529) On the internal circuit On the external circuit	 54 34		
External circuit filter	Yes		
Assembly	On top		
Thermal protection recommended (fuse melt curve)	T4A	T6A	

Cooling unit
Mechanical control

Top-mounting models, ref. NSYCU760W230VR-NSYCU1050W230VR-NSYCU1460W230VR



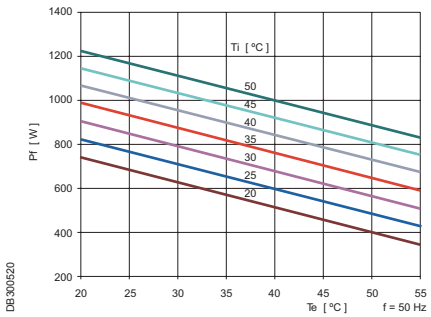


Cut-out template for top mounting without intermediate frame.

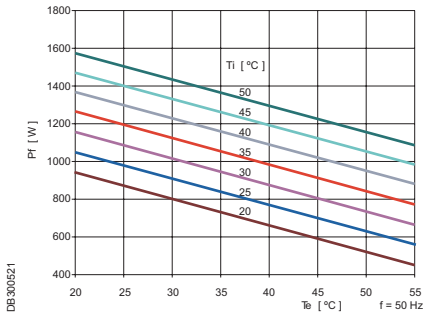
A	B	C	D	E	F	G	H	J	K	M	Reference
108	350	350	40	136	292	80	600	600	340	600	**NSYCU760W230VR**
118	420	400	45	180	328	90	700	700	400	700	**NSYCU1050W230VR**
118	420	400	45	180	328	90	700	700	400	700	**NSYCU1460W230VR**

Curves

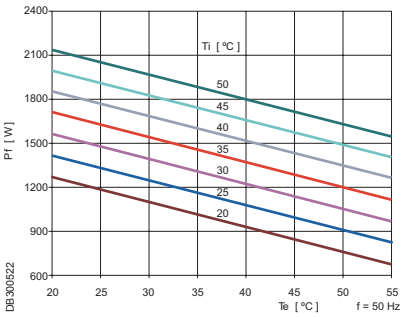
NSYCU760W230VR 50 Hz



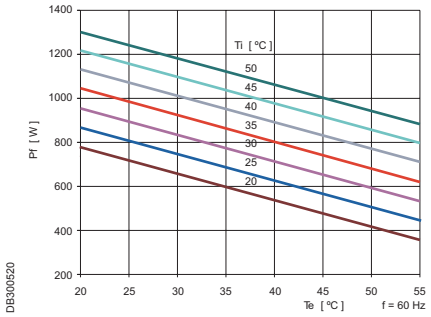
NSYCU1050W230VR 50 Hz



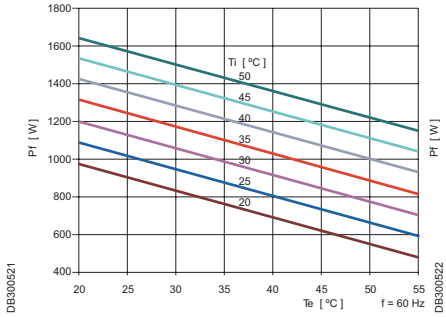
NSYCU1460W230VR 50 Hz



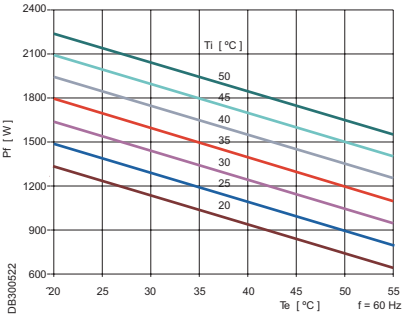
NSYCU760W230VR 60 Hz



NSYCU1050W230VR 60 Hz



NSYCU1460W230VR 60 Hz



Cooling unit
Mechanical control

NSYCU1650W230VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

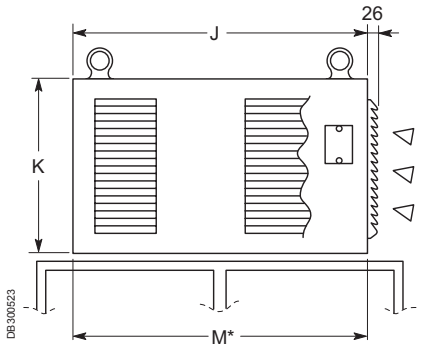
General characteristics

- The temperature setting can be adjusted from +20 to +50 ºC.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

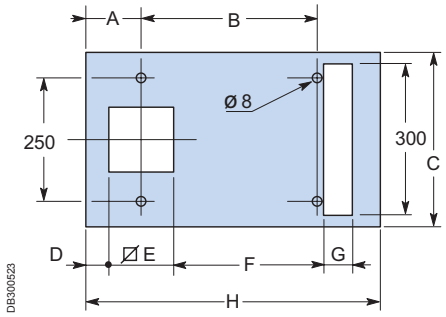
Reference	NSYCU1650W230VR	NSYCU2000W400VR
Voltage	230 V; 50/60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 1650/1700 W (5631/5802 Btu/h) 1300/1400 W (4438/4779 Btu/h)	 2000/2100 W (6826/7169 Btu/h) 1600/1700 W (5462/5803 Btu/h)
Dimensions Height Width Depth	 430 mm 700 mm 400 mm	
Intensity Starting current Rated current	 16.1/18.5 A 4.2/4.5 A	 6.8/7.9 A 2.1/2.5 A
Power consumption absorbed L35-L35 L35-L50	 800/920 W 920/1100 W	 1200/1400 W 1400/1700 W
Energy efficiency ratio (EER) L35-L35	 2.1/2.0	 1.7/1.5
Control type	Thermostat	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	67 dB	69 dB
Air flow of the internal circuit of the external circuit	 550/600 m^3/h 620/680 m^3/h	
Type of zero-potential alarm	Inverter contact	
Weight of unit	47 kg	60 kg
Cooling gas type	R134a (1.0 kg)	
IP (IEC 60529) On the internal circuit On the external circuit	 54 34	
External circuit filter	Yes	
Assembly	On top	
Thermal protection recommended (fuse melt curve)	T6A	T3A

Cooling unit
Mechanical control

Top-mounting model, ref. NSYCU1650W230VR-NSYCU2000W400VR



* Maximum dimensions of the intermediate frame.

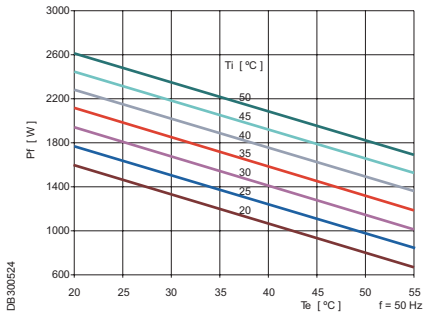


Cut-out template for top mounting without intermediate frame.

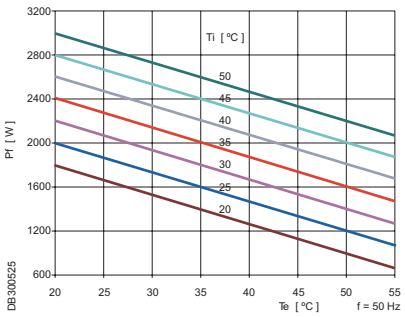
Reference	A	B	C	D	E	F	G	H	J	K	M
NSYCU1650W230VR	118	420	400	45	180	328	90	700	700	430	700
NSYCU2000W400VR	118	420	400	45	180	328	90	700	700	430	700

Curves

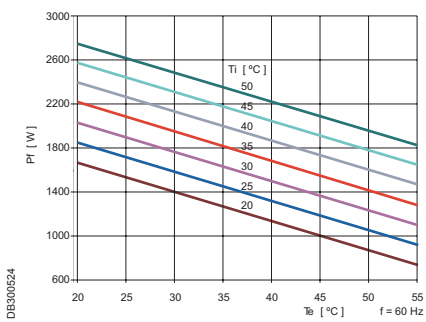
NSYCU1650W230VR 50 Hz



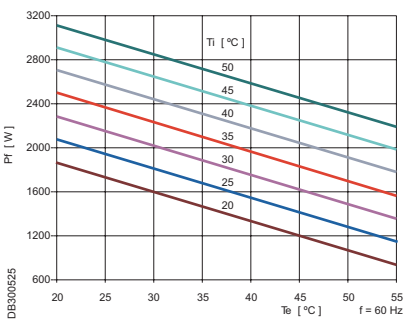
NSYCU2000W400VR 50 Hz



NSYCU1650W230VR 60 Hz



NSYCU2000W400VR 60 Hz



Cooling unit
Mechanical control

NSYCU3100W400VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

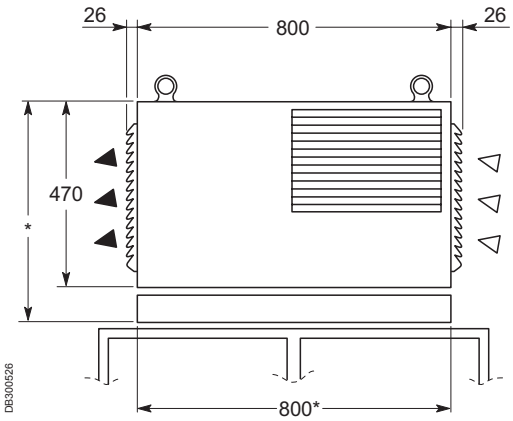
General characteristics

- The temperature setting can be adjusted from +20 to +50 ºC.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

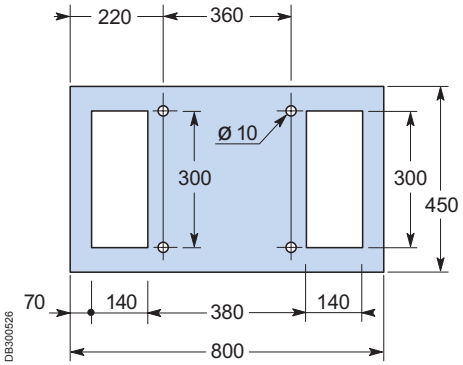
Reference	NSYCU2450W400VR	NSYCU3100W400VR
Voltage	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 2450/2600 W (8362/8876 Btu/h) 2000/2100 W (6828/7169 Btu/h)	 3100/3300 W (10580/11266 Btu/h) 2500/2600 W (8532/8876 Btu/h)
Dimensions Height Width Depth	 470 mm 800 mm 450 mm	
Intensity Starting current Rated current	 8.4/10.1 A 2.6/3.2 A	 9.6/11.3 A 3.0/3.5 A
Power consumption absorbed L35-L35 L35-L50	 1500/1800 W 1800/2100 W	 1700/2000 W 2000/2300 W
Energy efficiency ratio (EER) L35-L35	 1.6/1.5	 1.8/1.7
Control type	Thermostat	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	69 dB	
Air flow of the internal circuit of the external circuit	 750/820 m^3/h 1200/1310 m^3/h	
Type of zero-potential alarm	Inverter contact	
Weight of unit	65 kg	
Cooling gas type	R134a (1.5 kg)	R134a (1.7 kg)
IP (IEC 60529) On the internal circuit On the external circuit	 IP 54 IP 34	
External circuit filter	Yes	
Assembly	On top	
Thermal protection recommended (fuse melt curve)	T4A	

Cooling unit
Mechanical control

Top-mounting model, ref. NSYCU2450W400VR-NSYCU3100W400VR



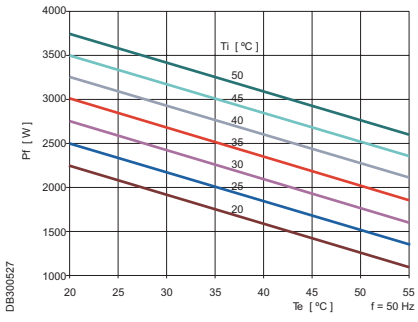
* Maximum dimensions of the intermediate frame.



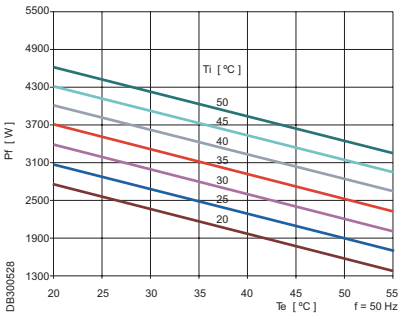
Cut-out template.

Curves

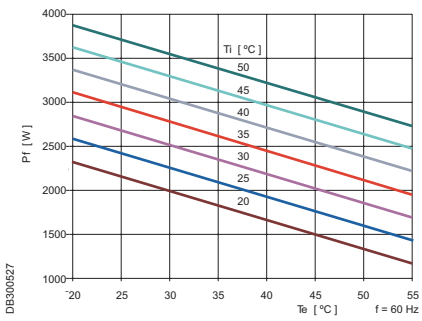
NSYCU2450W400VR 50 Hz



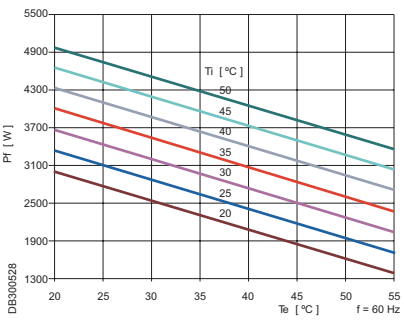
NSYCU3100W400VR 50 Hz



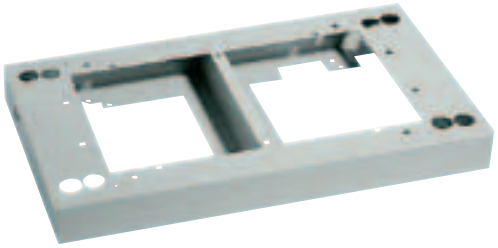
NSYCU2450W400VR 60 Hz



NSYCU3100W400VR 60 Hz



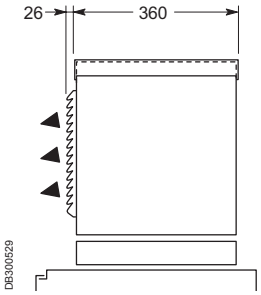
Cooling unit
Accessories

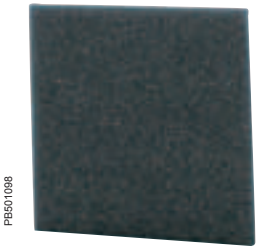

PB501128

Intermediate frame

- Frame allowing the top-mounting unit ref. **NSYCU760W230VR** mounted on enclosures with a width of 600 and a depth of 400 mm.

Description	Reference
Intermediate frame	**NSYCUAI**




PB501098

Spare filter

- Filter with a density of 32 kg/m² and a thickness of 13 mm, for all the side-mounting and top-mounting units.
- To be ordered in multiples of 24 filters.

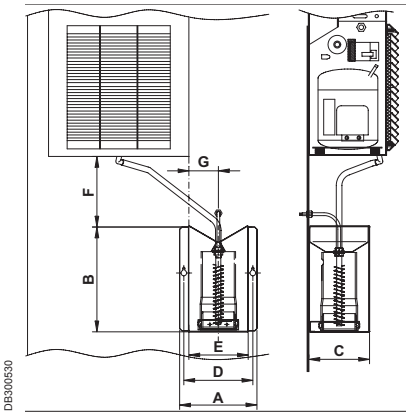
Description	Reference
Spare filter	**NSYCEAF**

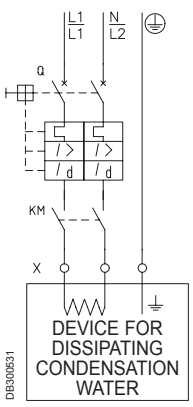
Device for dissipating condensation water (external installation)

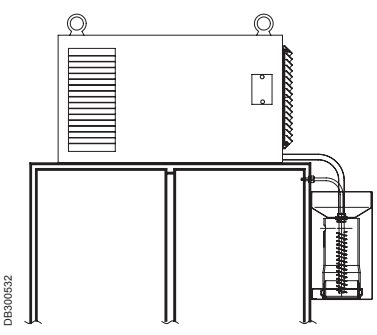
- Device for dissipating condensation water (external installation) allowing the evacuation of condensation water from the internal battery (evaporator).
- Supplied with stainless-steel support.
- Power supply:

	Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
Operating voltage ±10%	230 V~	2.9 A	T 3 A	200 cl/h	PTC
	115 V~	5.8 A	T 6 A		

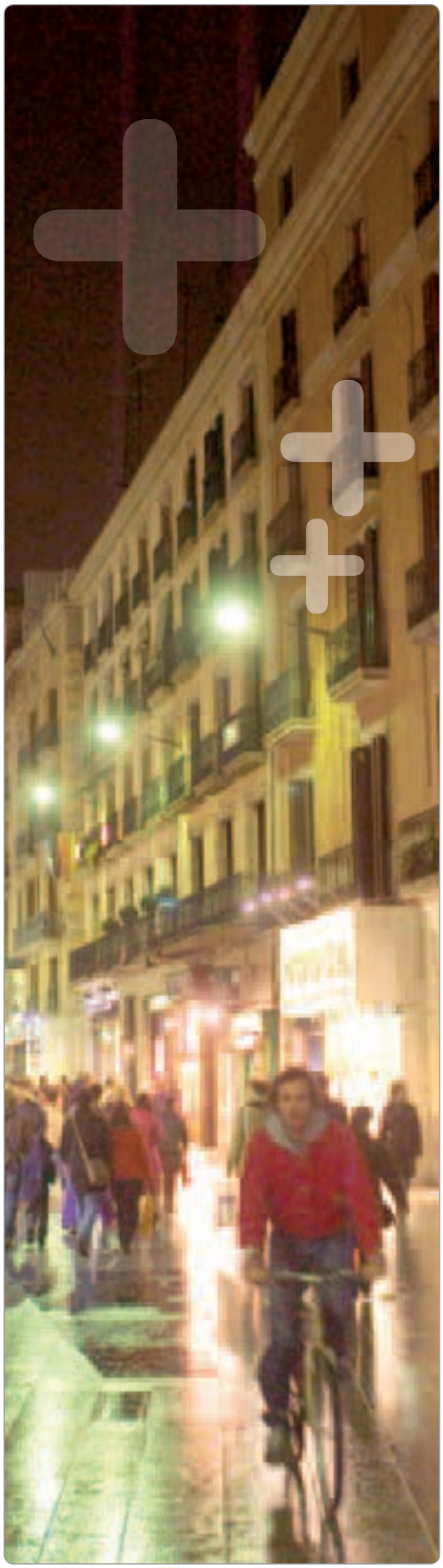
Description	Reference
Heat sink	**NSYCUAD**







Selection tools



PB500009

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Our software suite

> Spacial.pro

Spacial.pro allows you to make switchboard proposals based on the standard Spacial offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the Bill of Material and 2D drawings for front/side views.

PB500010

> ProClima

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

PB500011

> Spacial.ref Thalassa.ref

These digital rules allow you to select the best components from the current extensive product range without the risk of any mistakes, since product and accessory selection take place automatically, saving you time and money.

PB500012

Cooling unit
Electronic control

NSYCUE1400W230L

Side-mounting

General characteristics

- Main components: a high-temperature compressor, two fans installed on a removable support, two exchange cassettes, an environmentally friendly refrigerant fluid HFC R134a, an electronic controller and a device for evaporating condensates (treated against corrosion) for side-mounting and top-mounting models.
- The temperature setting can be adjusted from +20 to +50 ºC (pre-set and recommended temperature: 35 °C).
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
  Electronic control by microprocessor allows:

– Setting temperature adjustment.
– Door switch management.
– Respect for the following operating parameters:
  Minimum operating time of the compressor.
  Minimum stand-by time of the compressor.
– Switching on the compressor with setting temperature +1 ºC.
– Switching off the compressor with setting temperature –5 ºC.
– Alarm management.
– Alarm reset by "confirmation" (manual reset).
– RAL 7035 colour for the standard offer.

- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Conditions of use

- They can be used with ambient temperatures ranging from +20 to +50 °C.
- The optional filter is required for installation in the following environments: intensive welding, hot forging, textile fibres, powdery chemicals, rubber processing and other harsh environments.
- The air conditioner is equipped with two handles making it easier to transport.
- The air conditioner is equipped with a quick-fixing device. A simple screw-nut-cage assembly allows the device to be locked from the outside.
- The electrical connection is by plug-in connectors, included with the unit.
- Do not obstruct, even partially, the external air suction and backflow orifices.
- The device must be installed more than 30 cm from the walls and more than 10 cm from the floor.

Cooling unit
Electronic control

Reference	NSYCUE1100W230L	NSYCUE1400W230L	NSYCUE1400W400L	NSYCUE1800W400L
Voltage	230 V; 50/60 Hz		3 x 400 V; 50 Hz / 3 x 440 V; 60 Hz	
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	1100/1200 W (3755/4097 Btu/h) 880/930 W (3004/3175 Btu/h)	1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	1800/1900 W (6145/6485 Btu/h) 1400/1500 W (4780/5121 Btu/h)
Dimensions Height Width Depth	1,010 mm 400 mm 240 mm			
Intensity Starting current Rated current	12.1/13.9 A 3.2/3.7 A	18.1/22.2 A 4.8/5.8 A	3.7/4.3 A 1.2/1.4 A	5.3/6.3 A 1.8/2.1 A
Power cunsumption absorbed L35-L35 L35-L50	600/690 W 690/790 W	900/1,100 W 1100/1300 W	700/810 W 810/930 W	1000/1200 W 1200/1400 W
Energy efficiency ratio (EER) L35-L35	1.8/1.7	1.6/1.4	2.0/1.9	1.8/1.7
Control type	Electronic controller			
Temperature setting range	+20...+50 °C			
Maximum outside temperature	55 °C			
Noise level	62 dB (A)	64 dB (A)	66 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	575/600 m^3/h 860/900 m^3/h	860/900 m^3/h 860/900 m^3/h	860/900 m^3/h 860/900 m^3/h	885/900 m^3/h 1050/1160 m^3/h
Type of zero-potential alarm	Inverter contact			
Weight of unit	45 kg	46 kg	47 kg	50 kg
Cooling gas type	R134a (0.85 kg)	R134a (0.85 kg)	R134a (0.85 kg)	R134a (0.85 kg)
IP (IEC 60529) On the internal circuit On the external circuit	54 34			
External circuit filter	Option			
Assembly	Side			
Thermal protection recommended (fuse melt curve)	T6A	T8A	T2A	T3A

Cooling unit
Electronic control

NSYCUE1400W230R

Top-mounting

General characteristics

- Main components: a high-temperature compressor, two fans installed on a removable support, two exchange cassettes, an environmentally friendly refrigerant fluid HFC R134a, an electronic controller and a device for evaporating condensates (treated against corrosion) for side-mounting and top-mounting models.
- The temperature setting can be adjusted from +20 to +50 ºC (pre-set and recommended temperature: 35 °C).
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure on which the air conditioner is installed.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
  Electronic control by microprocessor allows:

– Setting temperature adjustment.
– Door switch management.
– Respect for the following operating parameters:
  Minimum operating time of the compressor.
  Minimum stand-by time of the compressor.
– Switching on the compressor with setting temperature +1 ºC.
– Switching off the compressor with setting temperature –5 ºC.
– Alarm management.
– Alarm reset by "confirmation" (manual reset).
– RAL 7035 colour for the standard offer.

- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Conditions of use

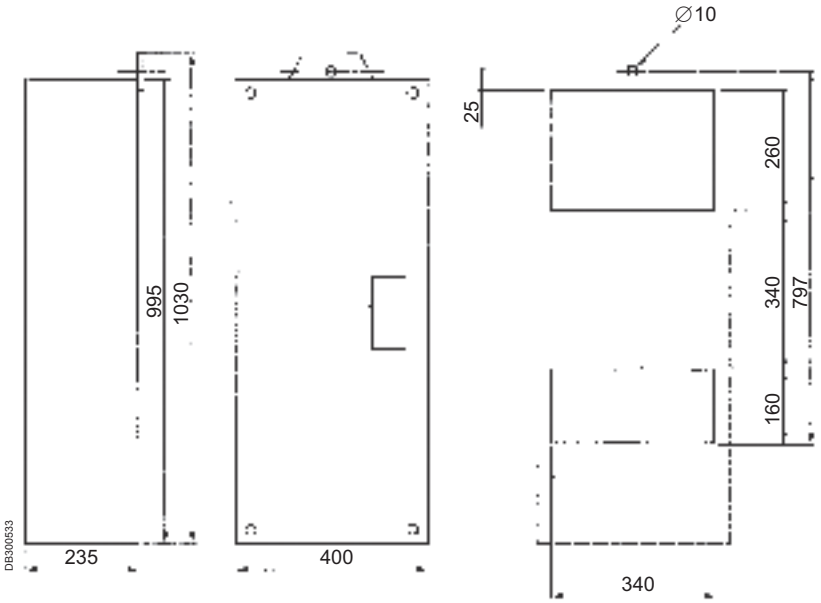
- They can be used with ambient temperatures ranging from +20 to +55 °C.
- The optional filter is required for installation in the following environments: intensive welding, hot forging, textile fibres, powdery chemicals, rubber processing and other harsh environments.
- The air conditioner is equipped with two handles making it easier to transport.
- The air conditioner is equipped with a quick-fixing device. A simple screw-nut-cage assembly allows the device to be locked from the outside.
- The electrical connection is by plug-in connectors, included with the unit.
- Do not obstruct, even partially, the external air suction and backflow orifices.
- The device must be installed more than 30 cm from the walls and more than 10 cm from the floor.

Cooling unit
Electronic control

Reference	NSYCUE1400W230R	NSYCUE1800W400R
Voltage	230 V; 50/60 Hz	3 x 400 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	 1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	 1800/1900 W (6145/6485 Btu/h) 1400/1500 W (4780/5121 Btu/h)
Dimensions Height Width Depth	 415 mm 750 mm 412 mm	
Intensity Starting current Rated current	 18.1/22.2 A 4.8/5.8 A	 5.3/6.3 A 1.8/2.1 A
Power consumption absorbed L35-L35 L35-L50	 900/1,100 W 1100/1300 W	 1000/1200 W 1200/1400 W
Energy efficiency ratio (EER) L35-L35	 1.6/1.4	 1.8/1.7
Control type	Electronic controller	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	64 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	 860/900 m^3/h 860/900 m^3/h	 885/900 m^3/h 1050/1160 m^3/h
Type of zero-potential alarm	Inverter contact	
Weight of unit	48 kg	50 kg
Cooling gas type	R134a (0.95 kg)	R134a (0.95 kg)
IP (IEC 60529) On the internal circuit On the external circuit	 54 34	
External circuit filter	Option	
Assembly	On top	
Thermal protection recommended (fuse melt curve)	T8A	T3A

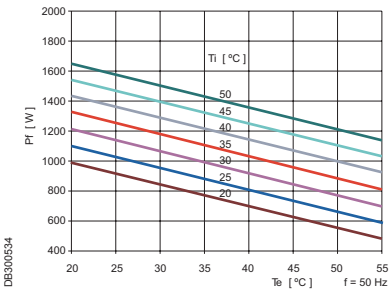
Cooling unit
Electronic control

Cut-out template for side mounting

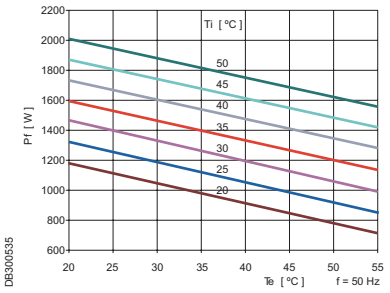


Curves

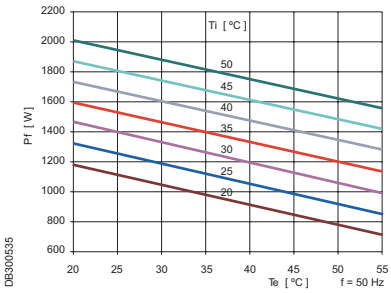
NSYCUE1100W230L 50 Hz



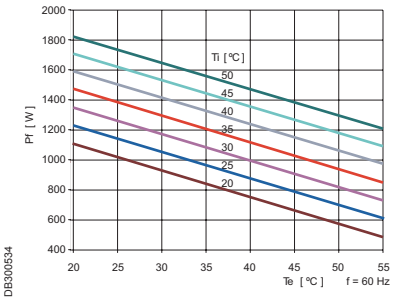
NSYCUE1400W230L 50 Hz



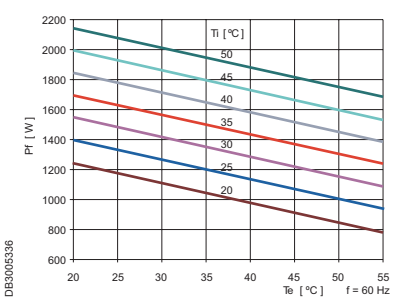
NSYCUE1400W400L 50 Hz



NSYCUE1100W230L 60 Hz



NSYCUE1400W230L 60 Hz



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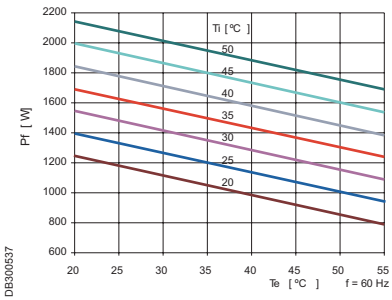
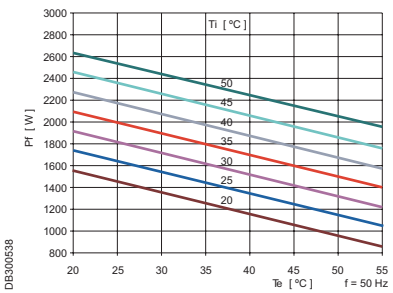
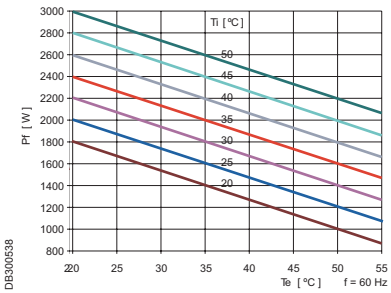


NSYCUE1800W400L 50 Hz

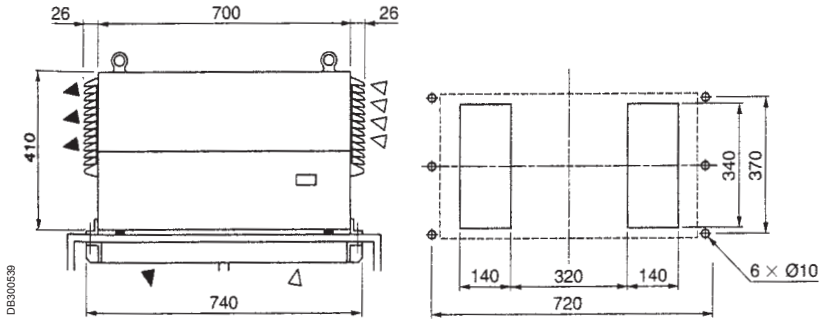


NSYCUE1800W400L 60 Hz



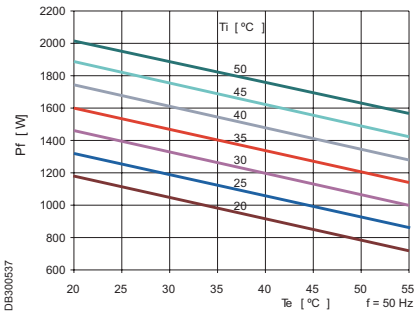
Cooling unit
Electronic control

Cut-out template for top mounting

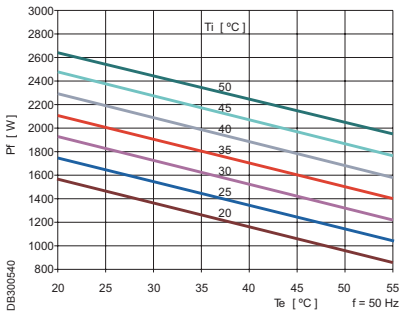


Curves

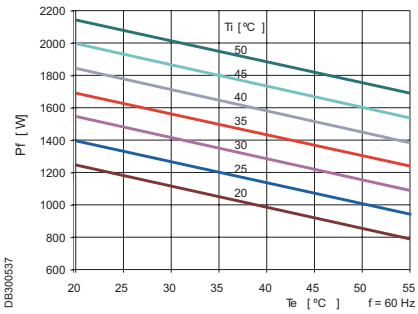
NSYCUE1400W230R 50 Hz



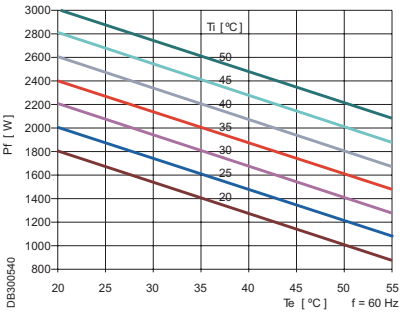
NSYCUE1800W400R 50 Hz



NSYCUE1400W230R 60 Hz



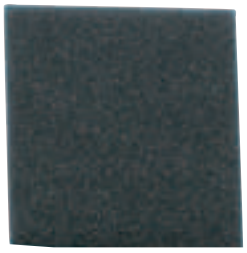
NSYCUE1800W400R 60 Hz



Cooling unit
Accessories

PB501131

NSYCUART


PB501098

NSYCUALF

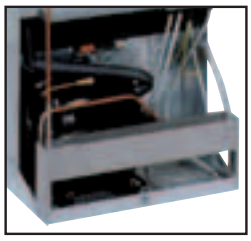
Filter device

- Kit for additional filter required to protect the side-mounting or top-mounting units in a harsh environment.
- Filter clogging detection kit.
- Spare filter (density 32 kg/m^3, thickness 13 mm).
- Kit for quick cleaning of the exchanger cassette to guarantee a good thermal exchange (contains a tray, an drain pipe and a bottle of grease remover).

Pack.	Description	Mounting model	Reference
1	Additional filter kit	Side	**NSYCUALT**
1	Additional filter kit	Top	**NSYCUART**
1	Flush-mounting kit	Side and top	**NSYCUAE**
5	Spare filter	Side	**NSYCUALF**
6	Spare filter	Top	**NSYCUARF**
1	Cleaning kit	Side	**NSYCUALN**

PB501132

PB501133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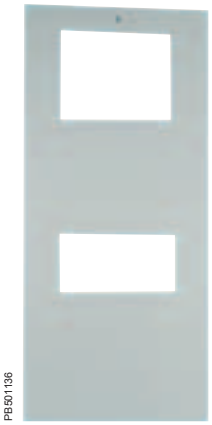

PB501136

Cut-out side panels

- Set of two Spacial panels (one solid panel and one pre-cut panel).
- Allows instant installation of side-mounting cooling units.
- RAL 7035 grey paint.

For Spacial SF wall-mounting enclosures (mm)		Panel reference
Height	Depth	
1800	600	**NSY2SPC186**
1800	800	**NSY2SPC188**
2000	600	**NSY2SPC206**
2000	800	**NSY2SPC208**

Cooling unit
SLIM electronic control

NSYCUB1100W230S

SLIM

- Range of cooling powers from 1100 W to 2700 W.
- 3 installation options: surface, partial flush and flush.
- Versions in RAL 7035 and stainless steel.
- Electronic thermostat with control option (precision of ±1 °C). Option of installing a display as an accessory.
- Minimal depth of 162 mm in every model.
- Internal IP 55 (enclosure side) maintains the IP of the enclosure up to IP 55.
- The unit is controlled by 3 commands:

– Thermostat value.
– Signal of an anomaly (sudden disconnection, incorrect phase installation, filter blocked with dirt, high compressor temperature, high enclosure temperature).
– Door open switch signal.

- A minimum height of 1800 mm and width of 800 mm (door) or 600 mm (side panel) is required to install a SLIM cooling unit in a Spacial enclosure.

General characteristics

- Desired internal temperature adjustable from +20 to +50 °C.
- Maximum ambient temperature: +55 ºC.
- All the units have, in standard version, a pressure gauge with automatic reset. If the high pressure exceeds the safe value (in the high-pressure circuit) the pressure gauge acts by cutting off the power supply to the compressor and the external fan.
- External and internal air circuits separated with IP 55. The fan of the internal circuit operates permanently, preventing the appearance of hot spots in the installation.
- Equipped with alarm relay activated by the pressostat in the high-pressure circuit.
- Respect for the environment using environmentally friendly gas R134a (HFC).

Modular version:
1 bloc + 1 cover

	NSYCUB1100W230S
Dimensions (mm) Height Width (according to installation type) Depth	 1580 460 (surface) or 495 (partial flush or flush) 162
Control type	electronic with control without display (display optional)
Unit control	thermostat+alarm+door closed
Temperature setting range	+20…+50 ºC
Maximum outside temperature	+55 ºC
Type of zero-potential alarm	Inverter contact
Cooling gas type	R134a
IP (IEC 60529) On the internal circuit On the external circuit	 55 34
External circuit filter	No (please consult us for aggressive environments)
Mounting model (the correct cover needs to be ordered)	surface, partial flush or flush
Available cover versions	RAL 7035 and stainless steel (please consult us for RAL 7032)
Certifications / marking	UL in process and CE

Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit
SLIM electronic control

Reference	NSYCUB1100W230S	NSYCUB1100W400S	NSYCUB1100W115S
	1100 W	1100 W	1100 W
Voltage	230 V 50/60 Hz	3 x 400 V 50 Hz/3 x 460V 60 Hz	115 V 50/60 Hz
Power according to EN14511 L35-35 L35-L50	 1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)	 1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)	 1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)
Intensity Starting current Rated current	 11/13.5 A 2.9/3.5 A	 8.5/10.5 A 2.2/2.3 A	 22/27A 5.8/7 A
Power consumption absorbed L35-L35 L50-L35	 600/710 W 710/850 W	 0.87/0.92 KW 0.99/1.1 KW	 0.6/0.71 KW 0.71/0.85 KW
Energy efficiency ratio (EER) L35-L35	 1.8/1.7	 1.3/1.3	 1.8/1.7
Noise level	67 dB (A)	67 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	 570/620 m^3/h 860/900 m^3/h	 570/620 m^3/h 860/900 m^3/h	 570/620 m^3/h 860/900 m^3/h
Weight of unit	46 kg	42 kg	46 kg
Thermal protection recommended (fuse melt curve)	 T4A	 T6A	 T8A

Reference	NSYCUB1500W230S	NSYCUB1500W400S	NSYCUB1500W115S
	1500 W	1500 W	1500 W
Voltage	230 V 50/60 Hz	3 x 400 V 50Hz/3 x 460V 60Hz	115 V 50/60 Hz
Power according to EN14511 L35-35 L35-L50	 1600/1700 W (5459/5800 Btu/h) 1300/1400 W (4436/4777 Btu/h)	 1500/1600 W (5118/5459 Btu/h) 1200/1300 W (4094/4435 Btu/h)	 1600/1700 W (5459/5800 Btu/h) 1300/1400 W (4436/4777 Btu/h)
Intensity Starting current Rated current	 16.7/19.2 A 4.4/5.1 A	 7.2/9.0 A 2.4/3.0 A	 33.4/38.4 A 8.8/10.2 A
Power consumption absorbed L35-L35 L50-L35	 830/950 W 950/1100 W	 1,300/1,500 W 1500/1 800 W	 0.83/0.95 KW 0.95/1.1 KW
Energy efficiency ratio (EER) L35-L35	 1.9/1.8	 1.2/1.1	 1.9/1.8
Noise level	69 dB (A)	67 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	 860/900 m^3/h 885/990 m^3/h	 860/900 m^3/h 885/990 m^3/h	 885/990 m^3/h 886/990 m^3/h
Weight of unit	49 kg	50 kg	49 kg
Thermal protection recommended (fuse melt curve)	 T6A	 T4A	 T4A

SLIM covers			
	Surface-mounting	Partial flush-mounting	Flush-mounting
RAL 7035	**NSYCUCL**	**NSYCUCH**	**NSYCUCF**
Stainless-steel	**NSYCUCLX**	**NSYCUCHX**	**NSYCUCFX**

Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit
SLIM electronic control

Reference	NSYCUB2200W230S	NSYCUB2200W400S	NSYCUB2200W115S
	2200 W	2200 W	2200 W
Voltage	230 V 50/60 Hz	3 x 400 V 50 Hz/3 x 460 V 60 Hz	115 V 50/60 Hz
Power according to EN14511 L35-35 L35-L50	 2200 W/2400 W (7507/8189 Btu/h) 1800 W/2000 W (6142/6824 Btu/h)	 2200 W/2400 W (7507/8189 Btu/h) 1800 W/2000 W (6142/6824 Btu/h)	 2200 W/2400 W (7507/8189 Btu/h) 1800 W/2000 W (6142/6824 Btu/h)
Intensity Starting current Rated current	 22.2/26.2 A 5.8/6.9 A	 7.9/9.5 A 2.6/3.2 A	 44.4/52.4A 11.6/13.8 A
Power consumption absorbed L35-L35 L50-L35	 1100/1300 W 1300/1500 W	 1500/1800 W 1800/2100 W	 1.1/1.3 KW 1.3/1.5 KW
Energy efficiency ratio (EER) L35-L35	 2/1.8	 1.5/1.3	 2/1.8
Noise level	67 dB (A)	69 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	 860/900 m^3/h 885/990 m^3/h	 885/990 m^3/h 885/990 m^3/h	 885/990 m^3/h 886/990 m^3/h
Weight of unit	50 kg	54 kg	50 kg
Thermal protection recommended (fuse melt curve)	 T8A	 T4A	 T16A

Reference	NSYCUB2700W230S	NSYCUB2700W400S
	2700 W	2700 W
Voltage	230 V 50/60 Hz	3 x 400 V 50Hz/3 x 460V 60Hz
Power according to EN14511 L35-35 L35-L50	 2700 W/2900 W (9218/9901 Btu/h) 2200 W/2400 W (7511/8194 Btu/h)	 2700 W/2900 W (9218/9901 Btu/h) 2200 W/2400 W (7511/8194 Btu/h)
Intensity Starting current Rated current	 24.8/28.2 A 6.4/6.7 A	 9/10.6 A 3/3.5 A
Power consumption absorbed L35-L35 L50-L35	 1200/1400 W 1400/1700 W	 1700/2000 W 2000/2300 W
Energy efficiency ratio (EER) L35-L35	 2.3/2.1	 1.6/1.5
Noise level	69 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	 1050/1160 m^3/h 1200/1340 m^3/h	 1050/1160 m^3/h 1200/1340 m^3/h
Weight of unit	57 kg	60 kg
Thermal protection recommended (fuse melt curve)	 T8A	 T4A

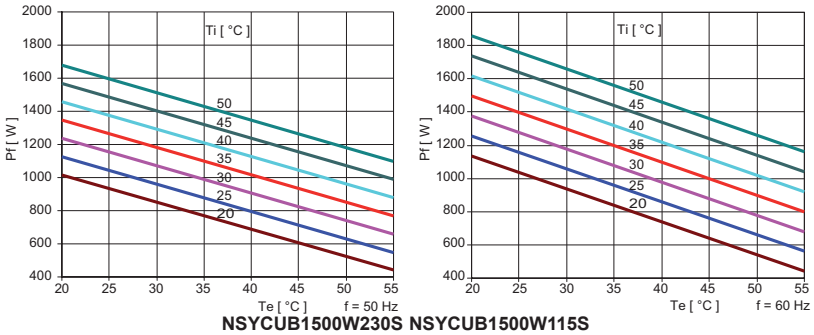
SLIM covers			
	Surface-mounting	Partial flush-mounting	Flush-mounting
RAL 7035	**NSYCUCL**	**NSYCUCH**	**NSYCUCF**
Stainless-steel	**NSYCUCLX**	**NSYCUCHX**	**NSYCUCFX**

Modular version: Always order one SLIM cooling unit reference plus one cover reference.

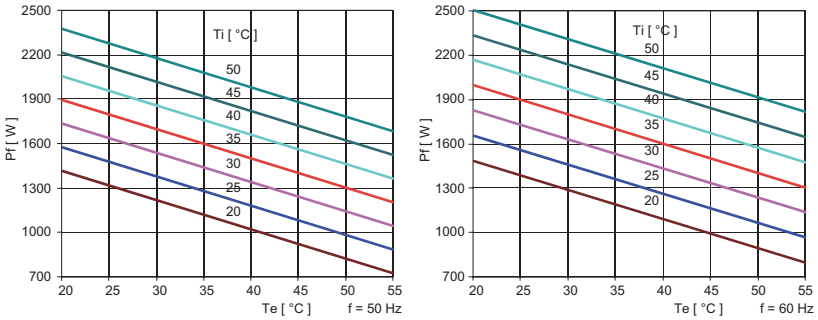
Cooling unit
SLIM electronic control

Curves

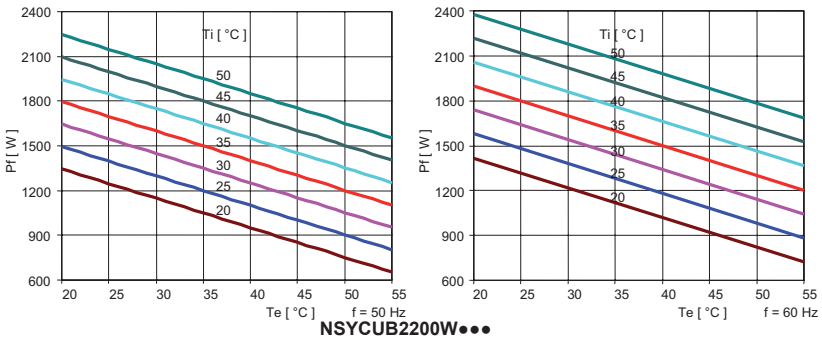
NSYCUB1100W•••



NSYCUB1500W230S NSYCUB1500W115S



NSYCUB1500W400S



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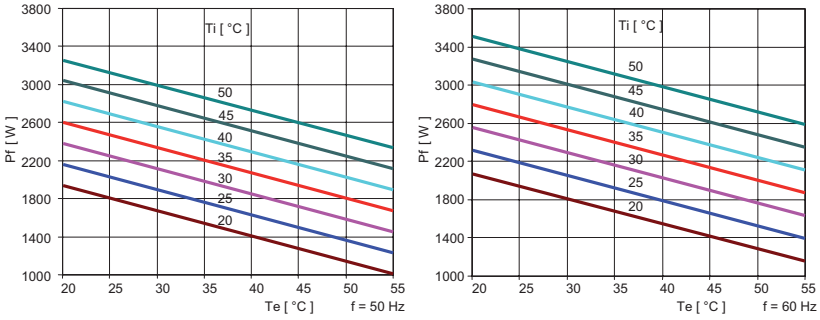

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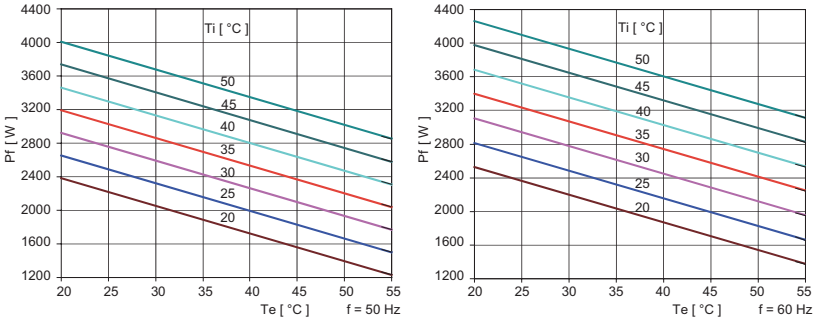
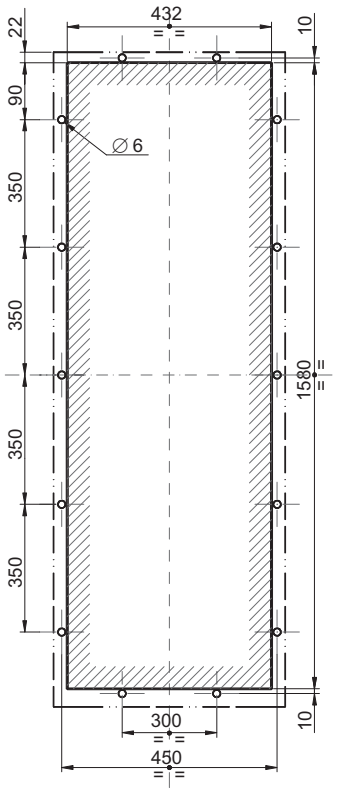
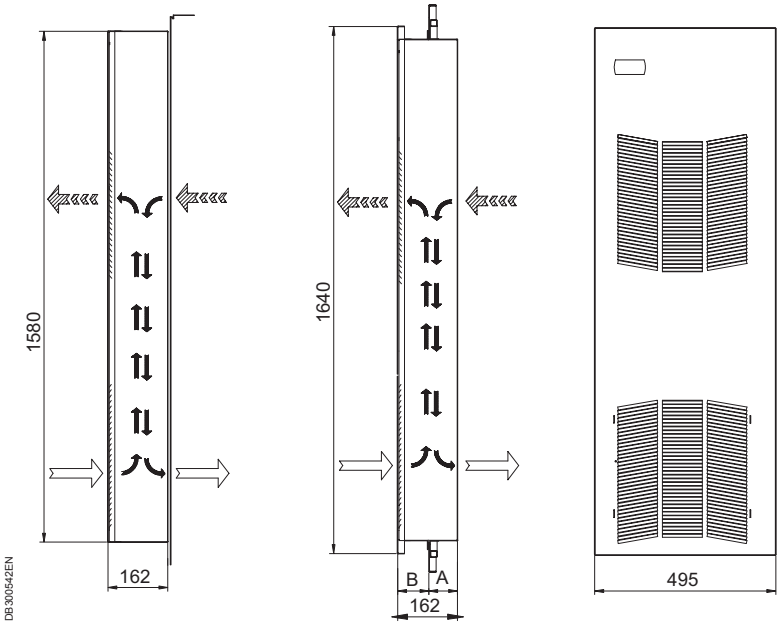


DB300541

Cooling unit
SLIM electronic control

Template for:
– flush-mounting
– half flush-mounting
– surface-mounting





Version	Flush-mounting	Half flush-mounting	Surface mounting
A = inside the enclosure	141 mm	81 mm	29 mm
B = outside the enclosure	21 mm	81 mm	133 mm

Cooling unit
SLIM accessories

Device for dissipating condensation water (internal installation)

- Device for dissipating condensation water (internal installation) allowing the evacuation of condensation water from the internal battery (evaporator).

	Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
Operating voltage ±10%	230 V~	2.9 A	T 3 A	200 cl/h	PTC
	115 V~	5.8 A	T 6 A		

Description	Reference
Heat sink	**NSYCUASD**

Electronic display

Enables control of the thermostat and displays the temperature inside the enclosure. The display is supplied with a connection cable and a metal plate for inserting the display in the cover of the cooling unit. No prior programming is required.

Description	Reference
Display	**NSYCUAY**

Insulated resistance heaters
Introduction

The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.

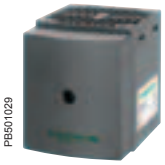
PB501026

PB501027

DB300452

PB501144

PB501027


PB501029

Large range of power levels

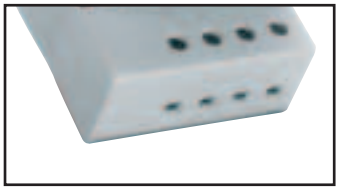
- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.

PB501138

Innovating design

Covered with plastic to prevent direct contact with the aluminium radiator.

Insulated resistance heaters
Introduction


PB501139

PB501140

Easy installation and connection

- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.

PB501026

PB501141

Safety

- The protection prevents direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70 °C.

High thermal efficiency

- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.

PB501142

Models with fan

- The heaters equipped with a fan ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

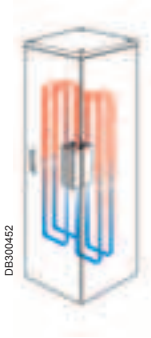
PB501043

PB501143

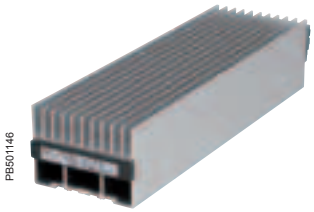
Certifications

- CE marking.
- Range compliant with UL and VDE.

Aluminium resistance heaters
Introduction



The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.



Resistance heaters equipped with a PTC-type sensor

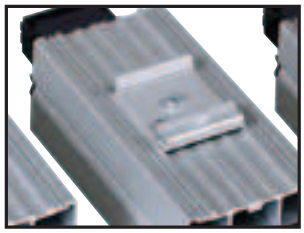
The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient). Thanks to these heaters:

- The surface temperature stabilises at 75 °C when the ambient temperature is –5 °C.
- Power consumption is reduced.

Improved convection

The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.

Aluminium resistance heaters
Introduction


PB501147

Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.

PB501148

Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.

PB501149

Connection terminal boards

Heaters with a power of more than 20 W are equipped with a connection terminal board.

Large range of power levels

8 power levels, from 10 W to 400 W.

PB501025

Models with fan

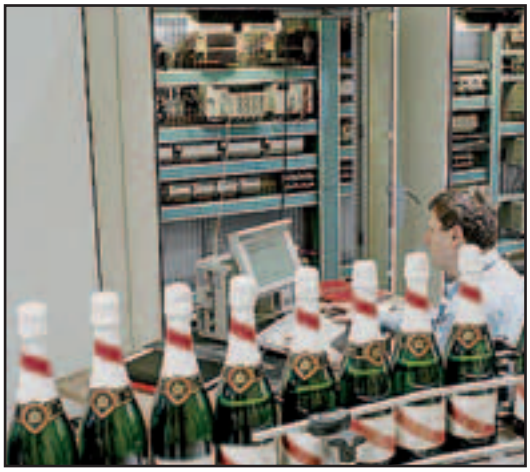
Models of 250 to 400 W with fan.

Resistance heaters
Applications

PB501150

Conditions of use

- The resistance heaters are controlled by a thermostat or a hygrostat.
- The enclosure must be sealed to prevent the entry of air from the outside.


PB501151

Dew point temperature

The dew point temperature is the minimum temperature that can be reached before condensation begins to form.
Example:
Ambient temperature = 25 °C.
Relative humidity = 50 %.
A temperature of more than 14 °C must be guaranteed inside the enclosure.

Relative humidity (%)	Ambient temperature (ºC)							
	20	25	3 0	35	40	45	50	55
40	6	11	15	19	24	28	33	37
50	9	14	19	23	28	32	37	41
60	12	17	21	26	31	36	40	45
70	14	19	24	29	34	38	43	48
80	16	21	26	31	36	41	46	51
90	18	23	28	33	38	43	48	53
100	20	25	30	35	40	45	50	55

PB501152

Installation tips

- Install several heaters according to the desired power level at the bottom of the enclosure.
- Respect a safety area of at least 10 cm around the device.
- Do not install any bulky devices above the heater, since this could reduce the effect of natural convection.
- Do not install any components that are particularly sensitive to heat directly above a heater.
- If several heaters are used, they must be installed in parallel. Serial installation is not an option.
- The heater must be installed vertically to ensure optimum convection.

Resistance heaters
Selection guide

Insulated resistance heaters

Power (W)	Voltage (V)	Connection type Terminal block	Reference
10	12-24 DC	•	**NSYCR10WU1C**
10	110-250 AC	•	**NSYCR10WU2C**
21	12-24 DC	•	**NSYCR20WU1C**
21	110-250 AC	•	**NSYCR20WU2C**
55	12-24 DC	•	**NSYCR50WU1C**
55	110-250 AC	•	**NSYCR50WU2C**
55	270-420 AC	•	**NSYCR50WU3C**
100	12-24 DC	•	**NSYCR100WU1C**
100	110-250 AC	•	**NSYCR100WU2C**
100	270-420 AC	•	**NSYCR100WU3C**
147	12-24 DC	•	**NSYCR150WU1C**
147	110-250 AC	•	**NSYCR150WU2C**

Resistance heaters
Selection guide

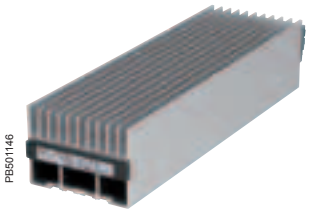
Insulated resistance heater with fan

Power (W)	Voltage (V)	Connection type Terminal block	Reference
177	230 AC	•	NSYCR170W230VVC

NSYCR350W230VTVC

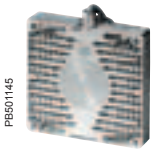
Thermofans

Power (W)	Voltage (V)	Connection type Terminal block	Reference
350	230 AC	•	NSYCR350W230VTVC
400/550	120 AC	•	NSYCRP1W120VTVC
400/550	230 AC	•	NSYCRP1W230VTVC



Resistance heaters

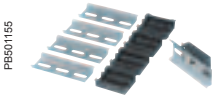
Power (W)	Voltage (V)	Connection type		Reference
		Terminal block	Cable	
10	12-24 DC		•	NSYCR10WU1
10	110-250 AC		•	NSYCR10WU2
20	12-24 DC		•	NSYCR20WU1
20	110-250 AC		•	NSYCR20WU2
20	270-420 AC	•		NSYCR20WU3
55	12-24 DC	•		NSYCR55WU1
55	110-250 AC	•		NSYCR55WU2
55	270-420 AC	•		NSYCR55WU3
90	12-24 DC	•		NSYCR100WU1
90	110-250 AC	•		NSYCR100WU2
90	270-420 AC	•		NSYCR100WU3
150	12-24 DC	•		NSYCR150WU1
150	110-250 AC	•		NSYCR150WU2
150	270-420 AC	•		NSYCR150WU3



NSYCRS200W230V

Resistance heaters with fan

Power (W)	Voltage (V)	Connection type Terminal block	Reference
250	115 AC	•	NSYCR250W115VV
250	230 AC	•	NSYCR250W230VV
400	115 AC	•	NSYCR400W115VV
400	230 AC	•	NSYCR400W230VV
200	115 AC	•	NSYCRS200W115V
200	230 AC	•	NSYCRS200W230V



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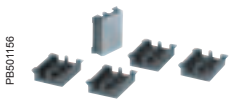


NSYCRAF

Fixing accessories

Description	Reference
Set of 5 studs	NSYCRAF
Set of 5 studs and DIN rail	NSYCRAFD

Insulated resistance heaters

Insulated resistance heater 10 W and 20 W

General characteristics

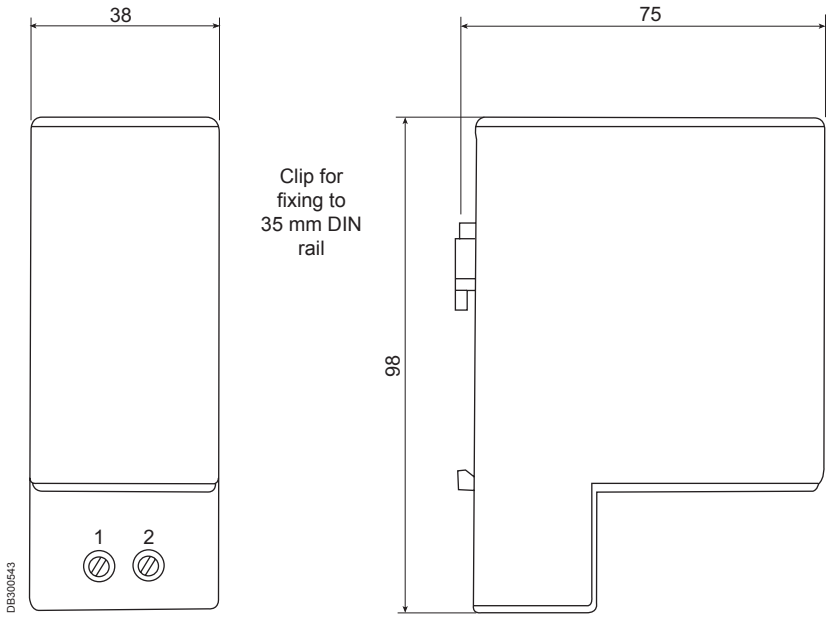
- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements.
- Surface temperature limited to 70 °C.
- Equipped with a power cable.
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35-mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

- The heaters must be installed with a thermal controller (see selection table on pages **750** and **751**) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference			
	NSYCR10WU2C	NSYCR10WU1C	NSYCR20WU2C	NSYCR20WU1C
Power at 0 °C	10 W		20 W	
Voltage	110-250 V AC	12-24 V DC	110-250 V AC	12-24 V DC
Technology	PTC			
Surface temperature	<70 °C, except for the top protection grille			
Electric connection	2 poles, 2.5 mm^2			
Mounting	Quick by clip on a 35-mm DIN rail.			
Cover	UL94 V0 plastic			
Operating position	Vertical			
Operating temperature	–40...+70 °C –10...+158 °F			
IP protection rating	IP 20 class II (double insulated)			
Certifications	VDE and UL			

Dimensions



Insulated resistance heaters

Insulated resistance heater 55 W - 100 W - 147 W

General characteristics

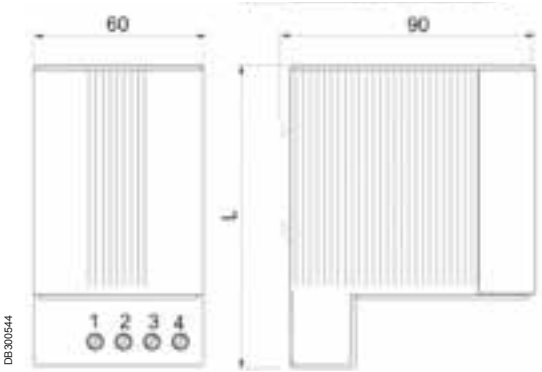
- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements.
- Surface temperature limited to < 70 °C.
- Equipped with quick-connection terminals: 2.5 mm².
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35-mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

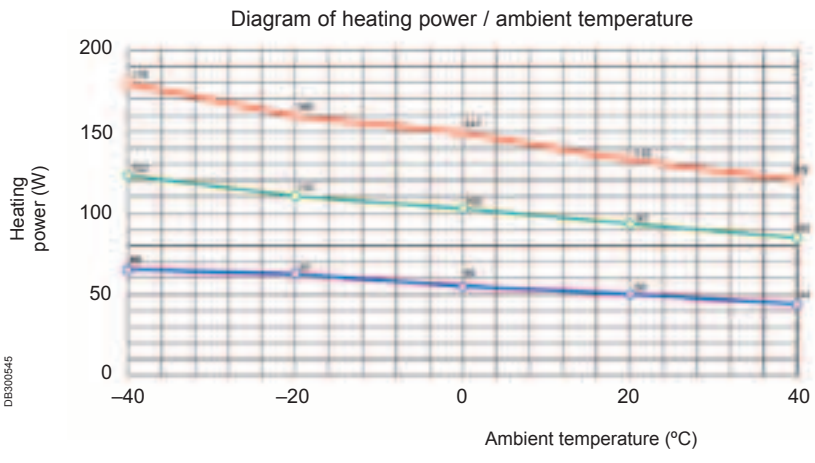
- The heaters must be installed with a thermal controller (see selection table on pages **750** and **751**) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference							
	NSYCR50WU2C	NSYCR50WU1C	NSYCR50WU3C	NSYCR100WU2C	NSYCR100WU1C	NSYCR100WU3C	NSYCR150WU2C	NSYCR150WU1C
Power at 0 °C	55 W			100 W			147 W	
Voltage	110-250 V AC	12-24 V DC	270-420 V AC	110-250 V AC	12-24 V DC	270-420 V AC	110-250 V AC	12-24 V DC
Technology	PTC							
Surface temperature	<70 °C, except for the top protection grille							
Electric connection	4 poles, 2.5 mm²							
Mounting	By clip on 35-mm DIN rail							
Cover	UL94 V0 plastic							
Operating position	Vertical							
Operating temperature	–40...+70 °C –10...+158 °F							
IP protection rating	IP 20 class II (double insulated)							
Certifications	VDE and UL							
Height (H)	110 mm			150 mm				

Dimensions



Performance diagram



Insulated ventilated resistance heaters

177 W

General characteristics

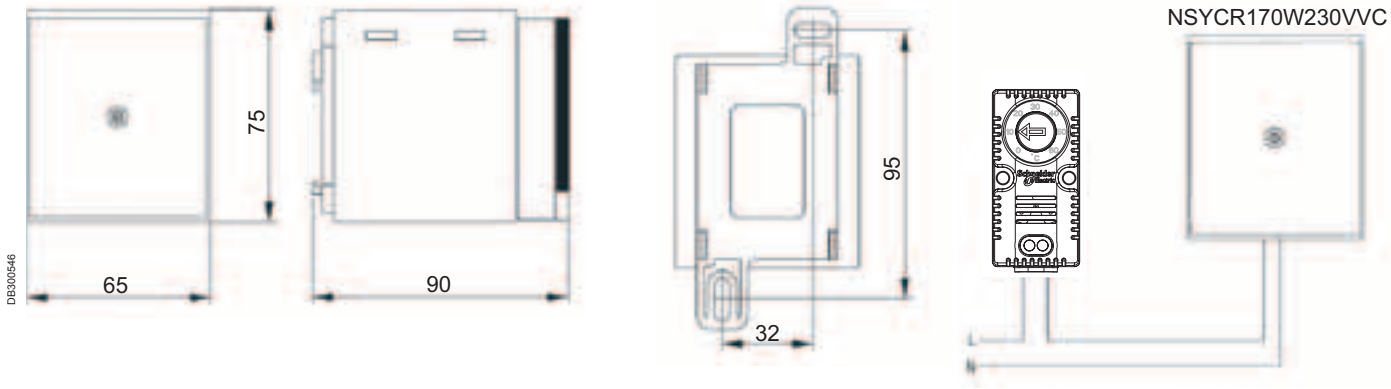
- Compact resistance heater preventing the formation of condensation or frost.
- Equipped with an axial fan for uniform heating inside the enclosure.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements (PTC).
- Surface temperature limited to 50 °C.
- Equipped with quick-connection terminals: 2.5 mm^2.
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35 mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

- The heaters must be installed with a thermal controller (see selection table on pages **750** and **751**) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference
	NSYCR170W230VVC
Power at 0 °C	177 W
Voltage	230 V AC; 50-60 Hz
Technology	PTC
Surface temperature	Max. 50 °C in the enclosure, 100 °C on the top protection grille (for an ambient temperature of 20 °C / 68 °F)
Service life	40,000 h at 40 °C
Air flow	13.8 m^3/h
Electric connection	2 poles 2.5 mm^2
Mounting	By clip on 35 mm DIN rail
Cover	UL94 V0 plastic
Operating position	Vertical
Operating temperature	–40...+70 °C –10...+158 °F
IP protection rating	IP 20 class II (double insulated)
Certifications	VDE and UL

Dimensions



Aluminium resistance heaters

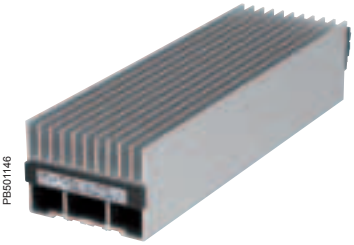
PB501145

General characteristics

- Extruded aluminium body.
- Surface temperature limited to 75 °C when the ambient temperature is –5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Conditions of use

- The heaters must be installed with a thermal controller (see selection table on pages **750** and **751**) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

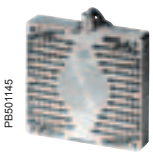

PB501146

Aluminium resistance heaters

- Range of resistance heaters from 10 to 400 W, heating the electrical switchboard to prevent the formation of condensation.

Power (W)	Voltage (V)	Connection type		Reference
		Terminal block	Power cord	
10	12-24 DC		•	**NSYCR10WU1**
10	110-250 AC		•	**NSYCR10WU2**
20	12-24 DC		•	**NSYCR20WU1**
20	110-250 AC		•	**NSYCR20WU2**
20	270-420 AC	•		**NSYCR20WU3**
55	12-24 DC	•		**NSYCR55WU1**
55	110-250 AC	•		**NSYCR55WU2**
55	270-420 AC	•		**NSYCR55WU3**
90	12-24 DC	•		**NSYCR100WU1**
90	110-250 AC	•		**NSYCR100WU2**
90	270-420 AC	•		**NSYCR100WU3**
150	12-24 DC	•		**NSYCR150WU1**
150	110-250 AC	•		**NSYCR150WU2**
150	270-420 AC	•		**NSYCR150WU3**

PB501025


PB501145

NSYCRS200W230V

Resistive heaters with fan

- The presence of a fan guarantees perfect uniformity of the temperature inside the electrical switchboard.
- The heaters must be installed with a thermal controller (see selection table on pages **750** and **751**) to control the temperature or the humidity inside the enclosure.

Power (W)	Voltage (V)	Connection type Terminal block	Reference
250	115 AC	•	**NSYCR250W115VV**
250	230 AC	•	**NSYCR250W230VV**
400	115 AC	•	**NSYCR400W115VV**
400	230 AC	•	**NSYCR400W230VV**
200	115 AC	•	**NSYCRS200W115V**
200	230 AC	•	**NSYCRS200W230V**

Aluminium resistance heaters

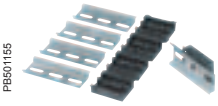
NSYCR350W230VTVC

NSYCRP1W230VTVC

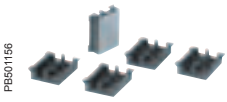
Thermofan

- Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.
- Fixing by clip on a DIN rail.
- Thermostat adjustable from 0...+60 °C.
- Visual operation indicator.

Power (W)	Voltage (V)	Connection type Terminal block	Reference
350	230 AC	•	**NSYCR350W230VTVC**
400/550	120 AC	•	**NSYCRP1W120VTVC**
400/550	230 AC	•	**NSYCRP1W230VTVC**



NSYCRAFD

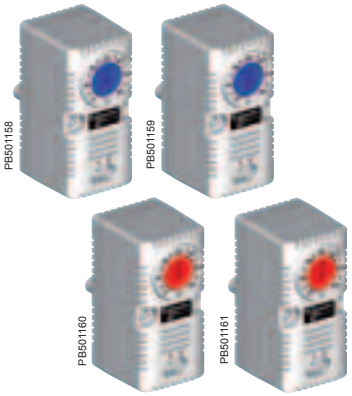


NSYCRAF

Fixing accessories

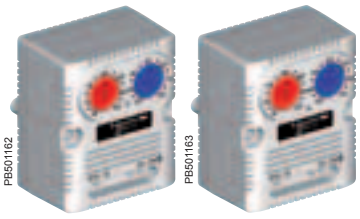
Description	Reference
Set of 5 studs	**NSYCRAF**
Set of 5 studs and DIN rail	**NSYCRAFD**

Thermal control
Overview



Adjustable thermostats

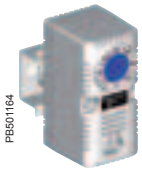
- NO (blue button) with normally open contact to control the starting of a fan when the temperature exceeds the displayed maximum value.
- NC (red button) with normally closed contact to control the stopping of a resistance heater when the temperature exceeds the displayed value.
- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.
- High connection power.
- 4 types of fixings (novelty).



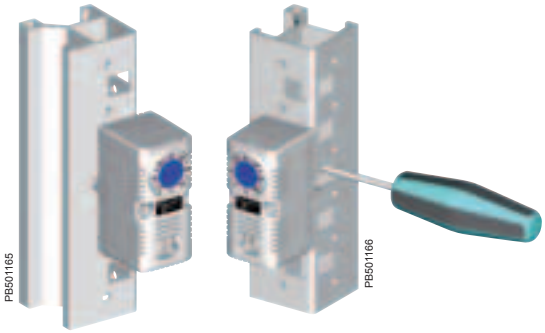
Double-adjustable thermostat

- Double temperature control with a resistance heater and a fan with separate operation.
- Red button: with normally closed contact (NC) for controlling the resistance heaters.
- Blue button: with normally open contact (NO) for controlling the fans.
- A double thermostat with separate adjustments and operations within the same device.
- Easily accessible terminals.
- Different installation methods.

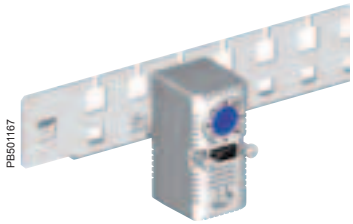
The new quick-fixing systems:



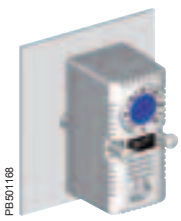
- On 35 mm DIN rail.



- On Spacial upright.



- On cross-rail.



- On mounting plate.

Thermal control
Overview

PB501169

Thermostat with NO/NC contact

- NO/NC inverter for controlling the resistance heaters or the fans.
- Switching by means of two NO/NC contacts.
- Easily accessible terminals.
- High connection power.
- 4 types of quick-fixing systems.
- Versions in °C and °F.

PB501170

Electronic thermostat with LCD screen

- Three thermostats for different input voltages (9-30 V, 110-127 V, 220-240 V).
- Operating temperature: 0 °C…+50 °C.
- Simple programming.
- Option of installing an external sensor, ref. **NSYCCAST** for remotely reading the temperature (operating temperature: –30 °C…+80 °C).
- Ventilation and heating function (2 separate relays).
- High switching power.
- Hysteresis: 2 K (+/–0.1 K).
- 7 different operating modes.
- Additional operating mode with 1 external sensor: Reads and compares the internal and external temperatures in order to control the ventilation, heating or the alarm.
- Temperature adjustment range: +5 °C…+50 °C.

PB501171

Electronic hygrotherms

- Electronic hygrotherms for different input voltages (9-30 V, 110-127 V, 220-240 V).
- Operating temperature: 0 °C…+ 50 °C.
- Option of installing an external sensor, ref. **NSYCCAST** for remotely reading the temperature (operating temperature: –30 °C…+80 °C).
- Simple programming.
- 3 different operating modes.
- High switching power.
- T hysteresis: 2 K (+/–0.1 K).
- RH hysteresis: 3%.
- Temperature adjustment range: +5 °C…+50 °C.
- Humidity adjustment range: 20%…80%.

PB500081

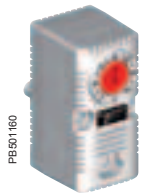
Electronic hygrostat

- Electronic hygrostat for different input voltages (110-240 V).
- Operating temperature: 0 °C…+50 °C.
- Simple programming.
- 2 different operating modes.
- High switching power.
- RH hysteresis: 3%.
- Humidity adjustment range: 20%...80% RH.

Thermal control
Selection guide mechanical version

Control temperature

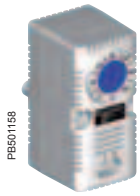
Control a resistance heater or an alarm


PB501160

NC thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	O	Heat	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	**NSYCCOTHC**
+32...+140 °F	°F					**NSYCCOTHCF**

Control a fan or an alarm


PB501158

NO thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	NO	Ventilate	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	**NSYCCOTHO**
+32...+140 °F	°F					**NSYCCOTHOF**

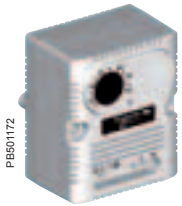
Control a resistance heater and a fan

PB501162

Double thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0…+60 °C	°C	NC + NO	Heat / Ventilate	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	**NSYCCOTHD**
+32…+140 °F	°F					**NSYCCOTHDF**

Control a resistance heater or a fan


PB501172

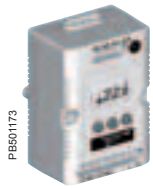
Thermostat with inverse contact

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0…+60 °C	°C	Inverse	Heat or ventilate	Bimetal	Closing: 30 W DC 250 V AC; 5 A Opening: 30 W DC 250 V AC; 10 A	**NSYCCOTHI**
+32…+140 °F	°F					**NSYCCOTHIF**

Thermal control
Selection guide electronic version

Control temperature

Control a resistance heater or a fan



Electronic thermostat

Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
+5 °C…+50 °C	°C or °F	9-30 V AC/DC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	**NSYCCOTH30VID**
		110-127 V AC					**NSYCCOTH120VID**
		220-240 V AC					**NSYCCOTH230VID**

7 different operating modes.
Option of installing one or two external sensors.

Control temperature and relative humidity

Electronic hygrotherm

Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
+5 °C…+50 °C	°C or °F	9-30 V AC/DC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	**NSYCCOHYT30VID**
		110-127 V AC					**NSYCCOHYT120VID**
		220-240 V AC					**NSYCCOHYT230VID**

3 different operating modes.
Option of installing an external sensor.

Control relative humidity

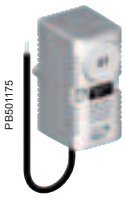
Electronic hygrostat

Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
20%…80%	% RH	110-240 V AC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	**NSYCCOHY230VID**

2 different operating modes.

PTC external temperature sensor (double insulation)

- Length: 3 metres.
- Several types of fixings (on DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate).
- Sensor operation or reading range: -30 °C…+80 °C.
- Protection rating: IP 67.



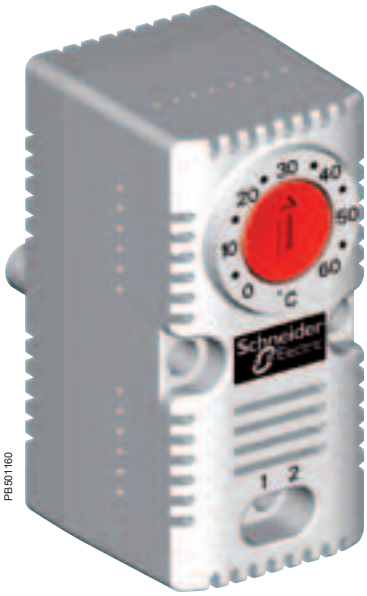
Temperature sensor

Reference
NSYCCAST

Thermostat installation tips:
The thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs.

Hygrostat installation tips:
The hygrostat should be installed at the bottom of the enclosure.
60% RH is the optimum value in the enclosure.

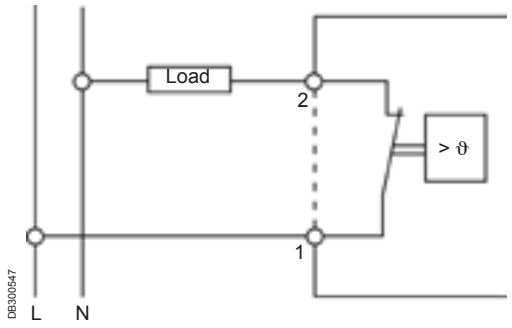
Thermal control
Thermostat with NC contact



- Thermostat with NC contact to control the stopping of a resistance heater when the temperature exceeds the displayed value.
- This considerably lengthens the service life of the resistance heaters since they are used less frequently.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature adjustment range: 0…+60 °C
- Connection: four 2.5 mm² terminals.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	10 A 250 V	**NSYCCOTHC**
°F	10 A 250 V	**NSYCCOTHCF**

Technical features	
Sensor element	Bimetal
Contact	NC, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC
Connection	Four 2.5 mm² terminals
Mounting	By clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	–20...+80 °C (–4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	0...+60 °C



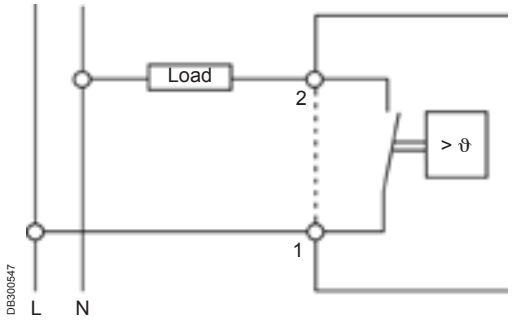
Load = resistance

Thermal control
Thermostat with NO contact

- Thermostat with NO contact to control the starting up of a fan when the temperature exceeds the displayed maximum value.
- It can control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature setting range: 0...+60 °C
- Connection: four 2.5 mm² terminals.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	10 A 250 V	**NSYCCOTHO**
°F	10 A 250 V	**NSYCCOTHOF**

Technical features	
Sensor element	Bimetal
Contact	NO, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos Ω= 0.6) 30 W DC
Connection	Four 2.5 mm² terminals
Mounting	Clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	–20...+80 °C (–4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature adjustment	0...+60 °C



Load = fan

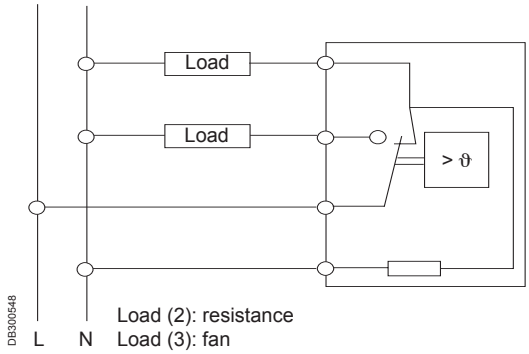
Thermal control
Thermostat with NO/NC contact

PB501172

- Thermostat (contact adapted to control fans, resistance heaters, ventilation drawers, heat exchangers, etc).
- Signals and controls the temperature inside the enclosure.
- Fixing on a DIN rail.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature setting range: 0…+60 °C.
- Connection: four 2.5 mm² terminals.

Display	Max. command I.	Reference
°C	(NO) 5 A (NC) 10 A	**NSYCCOTHI**
°F		**NSYCCOTHIF**

Technical features	
Sensor element	Bimetal
Contact	Inverse, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load)
Maximum interrupting capacity with direct current	250 V AC 4 A (inductive load cos ϕ = 0.6) 30 W DC
Connection	Four 2.5 mm⁴ terminals
Mounting	By clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	67 x 50 x 44 mm
Weight	100 g
Mounting position	Indifferent
Operating temperature	–20...+80 °C (–4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	+5...+60 °C



DB300548

Load (2): resistance
Load (3): fan

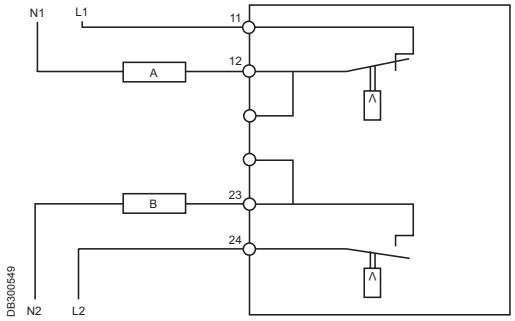
Thermal control
Double thermostat

PB501162

- Double thermostat: two thermostats in a single device with separate adjustment and operation.
  – Red button: with normally closed contact (NC) for controlling the resistance heaters.
  – Blue button: with normally open contact (NO) for controlling the fans, signalling systems or alarms.
- This thermostat can control the activation of a fan and a heater controlling the temperature independently.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	(NO) 5 A (NC) 10 A	**NSYCCOTHD**
°F		**NSYCCOTHDF**

Technical features	
Sensor element	Bimetal
Contact	NO / NC, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC
Connection	Four 2.5 mm^6 terminals
Mounting	Clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	–20...+80 °C (–4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	0...+60 °C



DB300549

Thermal control
Electronic thermostat with LCD screen

PB501173

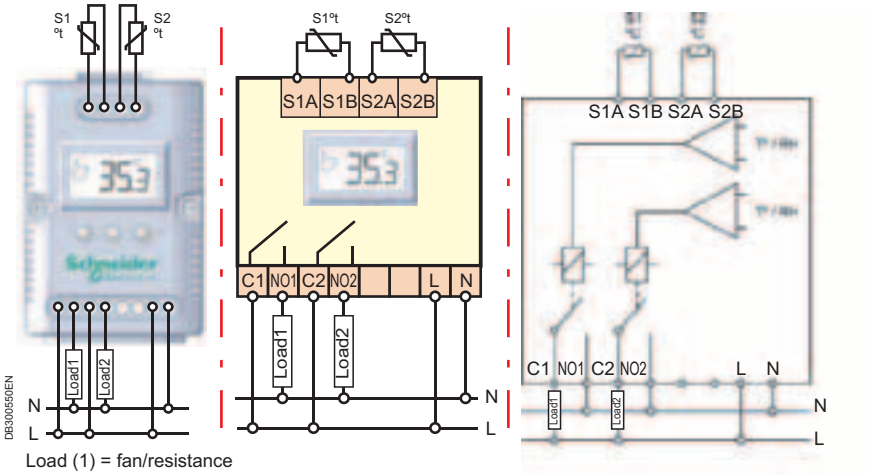
- Electronic temperature controller.
- Input voltages: 9-30 V, 110-127 V and 220-240 V.
- Thermostats with 2 independent switching relays (ventilation / heating function).
- Thermostat precision: +/–1.5 °C.
- Option of installing external PTC sensors, ref. **NSYCCAST**, for remote reading (L = 3 m).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Option of displaying degrees Celsius °C or Fahrenheit °F in the same thermostat.

Display	Voltage	Type of current	Max. command intensity	Reference
°C or °F	9-30 V	AC DC	8 (5) A 230 V AC / 5 A 30 V DC	**NSYCCOTH30VID**
	110-127 V	AC		**NSYCCOTH120VID**
	220-240 V			**NSYCCOTH230VID**

Technical features	
Operating temperature	0 °C…+50 °C
Temperature setting range	+5 °C…+50 °C
Hysteresis	Programmed 2 °K
Internal sensor element	Internal temperature sensor
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR

7 different operating modes in the same thermostat	
1	Ventilation (the addition of an external sensor inhibits the inner sensor and the reading is that of the external sensor) (activate 1st relay)
2	Heating (activate 2nd relay)
3	Ventilation / Heating (2 relays)
4	Double ventilation (2 relays)
5	Double heating (2 relays)
6	Comparison function (1 or 2 external sensors required). Compares the readings from the external sensor and the internal sensor in order to start up a fan or a heating element
7	Readings of max./min. temperature.

The thermostat automatically detects any connected sensors.



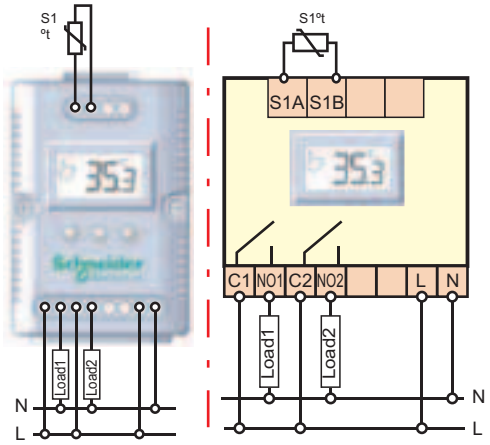
Load (1) = fan/resistance
Load (2) = fan/resistance/alarm

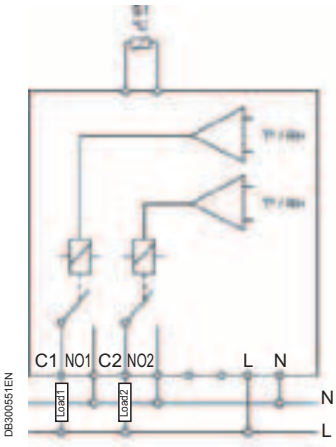
Thermal control
Electronic hygrotherm with LCD screen

- Electronic temperature and humidity controller.
- Input voltages: 9-30 V, 110-127 V and 220-240 V.
- Hygrotherm with 2 independent switching relays (ventilation / heating function).
- Thermostat precision: +/–1.5 °C.
- Hygrostat precision: +/–5% RH, relative humidity.
- Option of installing external PTC sensors, ref. **NSYCCAST**, for remote reading (L = 3 m).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Option of displaying the temperature in degrees Celsius °C or Fahrenheit °F.

Display	Voltage	Type of current	Max. command intensity	Reference
°C or °F % RH	9-30 V	AC DC	8 (5) A 230 V AC / 5 A 30 V DC	**NSYCCOHYT30VID**
	110-127 V	AC		**NSYCCOHYT120VID**
	220-240 V			**NSYCCOHYT230VID**

Technical features	
Operating temperature	0 °C…+50 °C
Temperature setting range	+5 °C…+50 °C
Humidity setting range	20%…80%
RH hysteresis	3%
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR





Load (1) = fan/resistance
Load (2) = fan/resistance/alarm

Operating modes

Mode 1	Relay 1	Relay 2
Controlled device	**Fan**	**Resistance heater**
Measured variables	Temperature	Temp. (T) and humidity (RH)
Control type	Avoid high temperatures	Avoid low temperatures

Mode 2	Relay 1	Relay 2
Controlled device	**Resistance heater**	**Alarm by switching**
Measured variables	Control of the dew point	Temperature and humidity
Control type	Avoid high humidity	High humidity or temperature alert

Mode 3	Relay 1	Relay 2
Controlled device	**Fan**	**Resistance heater**
Measured variables	External temperature - Internal temperature*	Temperature (T) and humidity (RH)
Control type	Heating by ventilation	Avoid low temperatures

*Comparison mode in relay 2: an external sensor is required for the comparison function (Text - Tint).
Example of mode 3: Decides whether the external temperature is favourable and controls the ventilation (Relay 1) or heating (Relay 2).
Advantage of mode 3: Energy efficiency. Option of efficiently heating the enclosure by ventilation (using hot external air) before bringing the resistance heater into operation. The thermostat automatically detects any connected sensors.

Thermal control
Electronic hygrostat with LCD screen

PB500081

- Electronic humidity controller.
- Input voltages: 110-240 V.
- Precision: +/- 5% RH, relative humidity.
- Hygrostat with 2 independent switching relays (ventilation / heating function).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- 2 operating modes for RH %: relative humidity control and dew point control.

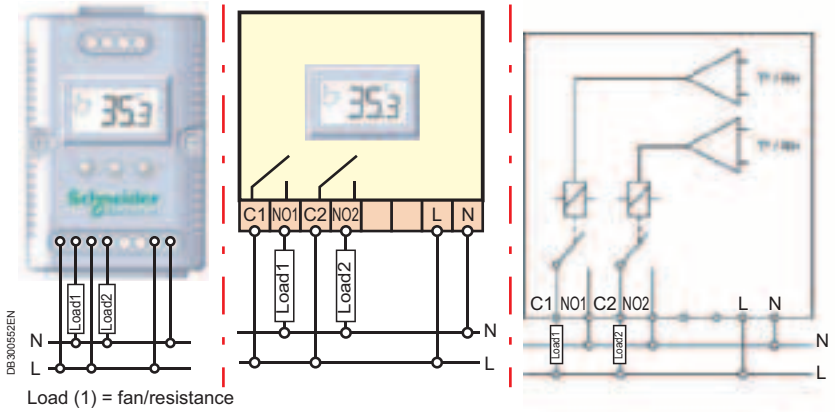
Display	Voltage	Type of current	Max. command intensity	Reference
% RH	110-240 V	AC	8 (5) A 230 V AC / 5 A 30 V DC	**NSYCCOHY230VID**

Technical features	
Humidity setting range	20%…80%
RH hysteresis	3%
Internal sensor element	Internal humidity sensor
Connection	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR

Operating modes

Mode 1	Relay 1	Relay 2
Controlled device	**Resistance**	**-**
Measured variables	Humidity	-
Control type	Dehumidify RH (%)	-

Mode 2	Relay 1	Relay 2
Controlled device	**Resistance**	**Alarm by switching or resistance**
Measured variables	Humidity	Humidity
Control type	Dehumidify RH (%)	High humidity warning



DB300552EN

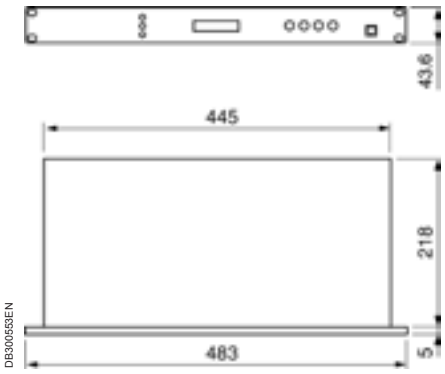
Load (1) = fan/resistance
Load (2) = fan/resistance/alarm

Thermal control

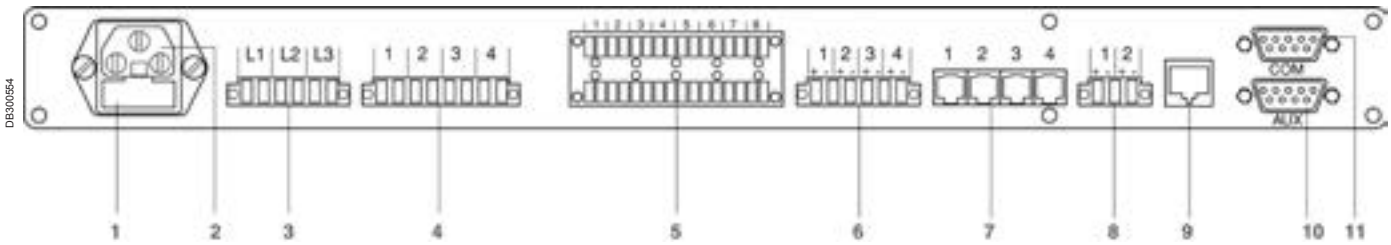
- The enclosure monitor checks and protects all the equipment in the distribution, network and server racks as well as their environment.
- Ambient parameters and operating states can be measured using various sensors and several inputs.
- Signalling and display: on the unit, serial interface, Ethernet network.
- Digital inputs and switching outputs enable permanent monitoring and adapted actions.

Reference
NSY11950

Possibilities for connection to the enclosure monitor:
– 4 sensors ref. **NSY11951**, **NSY11952** and/or **NSY11953**.
– 4 sensors ref. **NSY11954** or **NSY11956**.
– 8 insulated digital inputs (free potential).
– 2 digital inputs.
– 1 series input used for monitoring devices with a communication protocol.

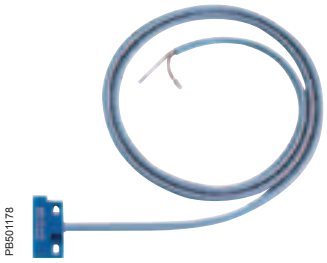


Connections and cabling diagram



1 Contact pin circuit breaker.
2 Connection to the network.
3 Connection of phase surveillance.
4 Digital switching outputs.
5 Digital inputs (ref. **NSY11955** and **NSY11958**).
6 Alarm inputs (ref. **NSY11954** and **NSY11956**).
7 Connection of a sensor, references **NSY11951**, **NSY11952** and **NSY11953**.
8 Connection of uninterruptible power supply.
9 Connection to Ethernet network RJ45.
10 Series interface for external devices.
11 Series interface for connection to a terminal.

Thermal control



Door contact

- Monitors door access by means of a magnetic sensor that reacts to any material conducting magnetic flow.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11955

Smoke detector

- Visible smoke detector with VdS approval for rapid fire detection, even with light smoke.
- Usable in temperature range from –20 to +60 °C.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11954

Vibration sensor

- Detects movements and vibrations of varying intensity.
- Adjustable sensitivity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11956

Movement sensor

- Indicates movements in the area by infrared system.
- Adjustable sensitivity.
- Anti-sabotage protection
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11958

Thermal control
Sensors

Water sensor

- Detects all liquids that conduct electricity.
- Sensor covered in araldite, 100% sealed.
- Usable in temperature range from –20 to +60 °C.
- Length of cable supplied: 5 m.
- Dimensions: 70 x 50 x 39 mm.

Weight (kg)	Reference
0.400	**NSY11957**

PB501182

Extension cables

- 4 strand cable for sensors.
- Four lengths available: 5, 10, 15 and 20 metres.
- RJ11 connections.

Length (m)	Reference
5	**NSY11959**
10	**NSY11960**
15	**NSY11961**
20	**NSY11962**

PB501183

Temperature sensor

- Temperature value range: 0° ... +60°.
- Measurement accuracy: ± 1 °C.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11951

PB501183

Humidity sensor

- Humidity value range: 10 ... 90% relative humidity between 0° and +60°.
- Measurement accuracy: ± 3% relative humidity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11952

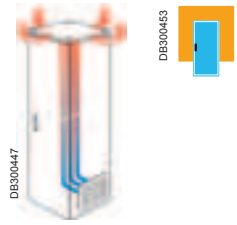
Combined temperature/humidity sensor

- Combines temperature and air humidity sensor functions.
- Temperature value range: 0° ... +60°.
- Measurement accuracy: ± 1 °C.
- Humidity value range: 10 ... 90% relative humidity between 0° and +60°.
- Measurement accuracy: ± 3% relative humidity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11953

Thermal balance
Thermal management system

The miniaturisation of components, the generalisation of electronics and the appearance of new electronically powered products have made temperature management into a need which must necessarily be considered when designing electrical and/or electronic switchboards, in the same way as the protection rating.
Reliability and the search for lower breakdown rates are two determining factors in process industries, where the cost per hour is extremely high. The smallest failure can instantly result in considerable losses. The service life of the components also depends on the temperature and humidity conditions inside the enclosure.
The ideal values are +25…+35 °C for the temperature and 60 % for the relative humidity (RH).
Various solutions to these problems have been put forward. They will be chosen according to environmental conditions, the type of components in the electrical switchboard, and their cost.
In certain cases, all it takes it to oversize the enclosures or use fans. In other cases, when the temperature is higher, it becomes necessary to install air-water exchangers or air coolers operating according to the principle of refrigeration (cooling units). We offer you a range of solutions that adapt to every possible scenario: from the enclosure itself to ventilation systems, resistances or exchangers, and even cooling units.



Natural dissipation

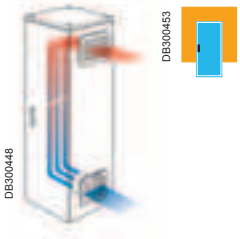
Through the walls of the enclosure

The use of a larger enclosure can, in certain cases, solve your heating problem.

Airing

Natural ventilation

The addition of fresh air from the outside through ventilation louvres improves the dissipation of heat by natural convection. However, this solution can only be used to dissipate small power levels and in environments with a small amount of dust.



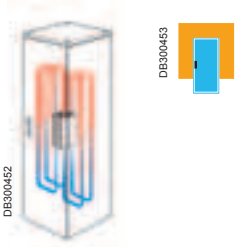
Ventilating

Circulation

Air circulation inside the enclosure with the help of a fan makes it possible to guarantee an even temperature, avoiding hot spots that can damage certain components.

Forced ventilation

The fans are designed to evacuate a considerable amount of heat coming from the components of the electrical switchboards. The service life of the latter is considerably extended, thus guaranteeing the long life and correct operation of the installation.
The fans can only be used if the ambient temperature is at least 5 ºC lower than the desired temperature inside the enclosure.
They offer an efficient solution, one that is easy to implement and maintain, which is also inexpensive, to the problem of temperature increases in the electrical switchboards. Thanks to their standard IP 54 (IP 55 with accessories) they are suitable for use in industrial and tertiary sectors.



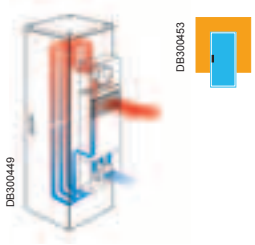
Heating

Resistance heaters

Resistance heaters can be used for two reasons:
- To reheat the electrical switchboard when the ambient temperature is too low for the correct operation of the components.
- To prevent the formation of condensation.

The second phenomenon can cause short-circuits, premature oxidation of the contacts, corrosion of metal parts and, in particular, of the enclosure, a considerable reduction in the service life of the electrical and electronic components.
Condensation occurs when the temperature suddenly drops below the dew point temperature. To avoid this, it is simply necessary to maintain the temperature inside the enclosure at a few degrees above the ambient temperature of the environment.
Thanks to their design, the heaters encourage natural convection and guarantee quick and even heating within the enclosure.

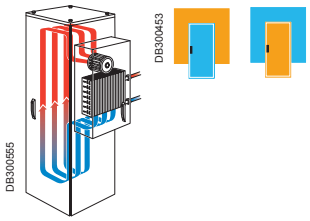
Thermal balance
Thermal management system



Cooling

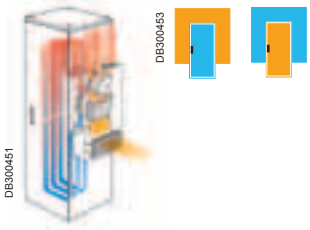
Air-air exchangers

Air-air exchangers are devices that combine efficiency and simplicity. The hot air flows of the enclosure and the cold of the surrounding environment, created by two fans, circulate on either side of hermetic separation walls, preventing the penetration of dust or moisture in the enclosure. The hot air from the switchboard reheats these walls, which in turn are cooled by the fresh air from outside. The transfer always takes place from the hotter side to the cooler side. This is why these devices can only be used if the ambient temperature is at least 5 °C lower than the desired temperature inside the enclosure.
The aluminium exchange cassette forms the core of the system. This element can be cleaned easily by simply removing it. In addition, the permanent operation of the internal fan prevents the appearance of hot spots in the electrical switchboard. The temperature regulation system integrated in the unit turns the external circuit fan on and off.



Air-water exchangers

Air-water exchangers operate on the same principle as air-air exchangers. Fresh air from the outside is replaced with cold water supplied by a network installed on the industrial site. This change of fluid makes it possible to evacuate much larger amounts of heat and, possibly, to reduce the temperature in the enclosure below the temperature of the ambient air.
Temperature control in the enclosure is carried out by modulating the water flow. The water circuit is protected by a shut-off device: your electrical installation is safe.



Cooling units

Cooling units can be used in the harshest environments, where the temperature can reach 55 °C. These devices are especially recommended when the desired temperature inside the enclosure must be lower than the ambient temperature or when a large amount of heat needs to be evacuated. As in the case of the exchangers, they do not affect the IP of the switchboard.
The filter, placed at the inlet of the external air circuit, allows it to operate even when the ambient air is charged with dust or oil particles. Easily replaceable and quite inexpensive, this device guarantees the efficiency of the device throughout its service life. These devices control the temperature inside the enclosure and include an alarm function for signalling operational anomalies.

The ambient temperature is lower than the desired temperature inside the enclosure.

The ambient temperature is higher than the desired temperature inside the enclosure.

The ProClima calculation software, available on our webiste, is an indispensable tool for the selection of a thermal auxiliary.

Method of determining the thermal solution

The heat balance, which consists of comparing the power released by the devices with the power exchanged spontaneously through the wall of the enclosure, allows us to calculate the internal temperature obtained in the enclosure, with no thermal accessories, and thus to determine whether it is necessary to install any, bearing in mind the desired internal and external temperatures.
Below we have presented a simple method for implementing this choice.

1 Characteristics of the enclosure

H = Height W = Width D = Depth

Position of the enclosure	Location according to IEC 890 ratio	Formula for calculating S (m^2)
	Accessible from every side	S = 1.8 x H x (W + D) + 1.4 x W x D
	Placed against a wall	S = 1.4 x W x (H + D) x 1.8 x D x H
	On the end when suited	S = 1.4 x D x (H + W) + 1.8 x W x H
	On the end when suited, placed against a wall	S = 1.4 x H x (W + D) + 1.4 x W x D
	In the middle when suited	S = 1.8 x W x H + 1.4 x W x D + D x H
	In the middle when suited, placed against a wall	S = 1.4 x W x (H + D) + D x H
	In the middle when suited, placed against a wall with the top covered	S = 1.4 x W x H + 0.7 x W x D + D x H

S = m²

Example
Spacial reference **NSYSF20840**
H = 2000
W = 800
D = 400
Installation method:
Suitable enclosure placed against a wall.

S = 4.13 m²

2 Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components.
If these are not known, use the ProClima software and page **771**, which shows the average values.

Pd = W

Assume that the switchgear dissipates 800 W

Pd = 800 W

3 Characteristics of the environment air

Maximum ambient temperature
Minimum ambient temperature
Average relative humidity
Dew point temperature. Calculation of resistance heater power.

Te max = °C
Te min = °C
RH = %
Tr = °C

The temperature conditions are as follows:

Te max = 35 °C
Te min = 15 °C
RH = 70 %
Tr = 29 °C

4 Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air.
Maximum internal temperature
Minimum internal temperature
(maximum value between the dew point temperature and the minimum operating temperature of the devices)

Ts max = °C
Ts min = °C

Ts max = 40 °C
Ts min = 29 °C

5 Final temperature inside the enclosure with no thermal system

Max. internal temperature: $Ti\ max = \frac{Pd}{KxS} + Te\ max$

Min. internal temperature: $Ti\ min = \frac{Pd}{KxS} + Te\ min$

or
K = 5.5 W/m²/°C for an enclosure made of painted sheet steel
K = 3.5 W/m²/°C for a polyester enclosure
K = 3.7 W/m²/°C for a stainless-steel enclosure
K = 12 W/m²/°C for an aluminium enclosure

Ti max = °C
Ti min = °C

Ti max = 70 °C
Ti min = 50 °C

Thermal balance
Thermal management system

6 Determining the type of thermal device and its power: Psyst

If Ts min < Ti min	If Ts min > Ti min	If Ts max < Ti max	If Ts max > Ti max
No need for a thermal system; a circulation fan may be used to even out the temperature.	Need for a thermal system: resistance heater 1/ Permanent operation of the switchboard **Psyst = K x S (Ts_{min} – Te_{min}) – Pd** 2/ Discontinuous operation **Psyst = K x S (Ts_{min} – Te_{min})**	Need for a thermal system: ventilation, fan, exchanger, cooling unit. **Psyst = Pd – K x S (Ts_{max} – Te_{max})** **Psyst = 800 – 5.5 x 4.13 x (40 – 35)** **~ 690 W**	No need for a thermal system; a circulation fan may be used to even out the temperature.

	Temperature conditions	Solution	Advantages	Constraints
CIRCULATING	Avoid hot spots.	Install circulation fans in the enclosure.	Highly economical solution requiring no maintenance, easy to install; Installation IP conserved.	The amount of heat evacuated is relatively low.
COOLING	Final temperature Ts max desired in the enclosure at least 5 °C higher than the ambient temperature Te max. **Ts max ≥ Te max + 5 °C**	Oversize the enclosure or the wall-mounting enclosure.	Economical solution requiring no maintenance, easy to install; Installation IP conserved.	The amount of heat evacuated is relatively low, larger dimensions.
		Install ventilation louvres.	Highly economical solution requiring no maintenance, easy to install.	The amount of heat evacuated is low, it depends on the layout of the components, reduced IP (entry of dust).
		Install fans for introducing fresh air. $D = \frac{Psyst}{(Ts\ max - Te\ max)} \times 3.1\ m^3/h$	Economical solution, easy to install; large amount of heat evacuated; possible temperature control.	Regular filter maintenance. IP slightly reduced.
		Use an air-air exchanger. $q = \frac{Psyst}{(Ts\ max - Te\ max)}\ wk$	Easy to install; IP conserved during installation; temperature control as standard; easy maintenance.	Regular filter maintenance.
	Final temperature Ts max desired in the enclosure lower than the ambient temperature Te max +5 °C. **Ts max ≥ Te max +5 °C**	Use a cooling unit.	Easy to install; allows the evacuation of large amounts of heat, even when the ambient temperature is high, IP conserved during installation, temperature control.	Regular filter maintenance, cannot be used beyond an ambient temperature of 55 °C.
		Use an air-water exchanger.	Easy to install; allows the evacuation of large amounts of heat, even when the ambient temperature is high, IP conserved during installation, temperature control, no filter to maintain.	Needs a water circuit; consumption if supplied by the water mains.
HEATING	Outside temperature lower than the lowest acceptable ambient temperature for the switchgear.	Heat using a resistance heater.	Economical, reliable; see temperature in the table.	Energy consumption; space taken up in the enclosure.
	Risk of condensation.	Heat using a resistance heater in order to maintain the temperature beyond the dew point temperature.	Economical, reliable; the humidity in the switchboard can be regulated.	Energy consumption; space taken up in the enclosure.

Software
ProClima

PB500011

New ProClima software

- Software package for calculating and selecting the thermal accessories required for enclosures containing electrical and electronic equipment.
- Performs the calculations as well as the corrected surfaces, according to the dimensions of the enclosure and its position in relation to the walls.
- Available for download on our homepage.

Data entry

The following steps must be followed to conduct this study:

PB501184

1
Enter the project and customer data (optional).

PB501185

2
Enter the internal and external temperature data for the enclosure (compulsory).

PB501186

3
Enter the electrical data for the installation (voltage, rating, etc.) (compulsory).

PB501187

4
Determine the power dissipated by the electrical equipment inside the enclosure (compulsory).
If this value is not known, the software can calculate it:
- Based on the electrical or electronic switchgear that make up the switchboard (type and number),
- Based on a temperature reading.

Software
ProClima

Results

Summary of the heat balance

The software offers to print the project summary containing the calculation values, the results obtained and the thermal accessories recommended for maintaining the internal temperature of the enclosure in the specified conditions.
In addition, the summary specifies the power, characteristics and reference of the device, as well as any related accessories.

PB501188

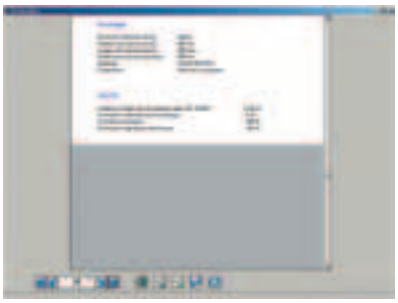
5
Select the enclosure and the installation method (compulsory).

PB501189

6
Select the thermal management system (fans, exchangers, etc.) (compulsory).

PB501190

7
View and print the project summary.


PB501191

Example of calculation and selection

Data

- **Enclosure data**
  Height: 2000 mm
  Width: 800 mm
  Depth: 500 mm

- **Location:** Placed on the wall

- **Material:** Painted sheet-steel enclosure

- **Thermal power dissipated by the operational components**
  Pd: 950 W

- **Information on temperature and the environment:**

Maximum desired temperature inside the enclosure	Te_{max} : 25 °C
Minimum desired temperature inside the enclosure	Te_{min} : 25 °C
Maximum temperature dissipated in the enclosure	Te_{max} : 35 °C
Minimum temperature dissipated in the enclosure	Te_{min} : 25 °C

Environment: Low pollution and low dust level

Selection and calculation:

The desired maximum temperature inside (Ts_{max}) the enclosure is 10 ºC higher than the maximum value expected for the outside (Ti_{max}).
It is possible to cool the enclosure using the filtered ventilation systems.

Calculation of the required fan:

Usage formulas:
Psis = $Pd - k \times S \times (Ts_{max} - Te_{max})$
Flow = $f \times Psis / (Td_{max} - Te_{max})$

Pd: Thermal power dissipated by the operational components
S = 1.4 x W x (H + D) + 1.8 x D x H = 4.6 m². According to standard IEC 890

K = Constant defined by the material used to manufacture the enclosure

K = 5.5 W/m² x °C for a solid sheet-steel enclosure
K = 3.5 W/m² x °C for a polyester enclosure
K = 3.7 W/m² x °C for a stainless-steel enclosure

In order to make the calculation, it is necessary to know the height above sea level of the installation location:
Height above sea level: 800 m
f = Coefficient relating to the height above sea level (value)

0 to 100 m f = 3.1	500 to 750 m f = 3.4
100 to 250 m f = 3.2	750 to 1000 m f = 3.5
250 to 500 m f = 3.3	.....

Our example:
Psis = 950 – 5.5 x 4.6 x (35 – 25) = 497 W
Flow rate = 3.5 x 697 / (35 – 25) = 244 m³/h
Selection from the fan quick-selection table
1 fan with standard filter ref. NSYCVF300M230PF + 1 grille with standard filter ref. NSYCAG223LPF + 1 thermostat ref. NSYCCOTHO enable a flow rate of 302 m³/h
The minimum outside temperature is lower than the desired minimum temperature inside the enclosure.
It is necessary to install resistance heaters:

Calculation of the useful resistance heater

Usage formula
$W = k \times S \times (Ts_{min} - Te_{min})$

Our example:
W = 5.5 x 4.6 (15 – 10) = 127 W

Selection from the selection guide of the resistance heaters.
1 resistance heater ref. NSYCR150WU2C + 1 thermostat ref. NSYCCOTHC

Help table to calculate corrected surfaces

Spacial wall-mounting enclosures

Installation mode									
H (mm)	W (mm)	D (mm)	1	2	3	4	5	6	7
300	200	150	0.23	0.21	0.21	0.19	0.20	0.17	0.15
300	250	150	0.28	0.24	0.25	0.22	0.23	0.20	0.18
300	300	150	0.31	0.27	0.29	0.25	0.27	0.23	0.20
300	300	200	0.35	0.32	0.33	0.29	0.31	0.27	0.23
300	400	150	0.38	0.33	0.36	0.32	0.35	0.30	0.26
300	400	200	0.41	0.39	0.41	0.36	0.39	0.34	0.28
400	300	150	0.39	0.34	0.36	0.32	0.34	0.29	0.26
400	300	200	0.44	0.40	0.41	0.36	0.38	0.33	0.29
400	400	200	0.54	0.48	0.51	0.45	0.48	0.42	0.36
400	600	200	0.74	0.65	0.71	0.62	0.68	0.58	0.50
400	600	250	0.82	0.73	0.78	0.69	0.74	0.65	0.54
500	300	200	0.53	0.47	0.49	0.43	0.45	0.39	0.35
500	400	200	0.65	0.57	0.61	0.53	0.57	0.49	0.44
500	400	250	0.73	0.65	0.68	0.60	0.63	0.55	0.48
500	500	200	0.77	0.67	0.73	0.63	0.69	0.59	0.52
500	500	250	0.85	0.75	0.80	0.70	0.75	0.65	0.56
600	400	200	0.76	0.66	0.71	0.62	0.66	0.57	0.51
600	400	250	0.84	0.75	0.78	0.69	0.72	0.63	0.56
600	500	250	1.02	0.87	0.93	0.81	0.87	0.75	0.66
600	600	200	1.03	0.89	0.98	0.84	0.94	0.79	0.71
600	600	250	1.13	0.98	1.07	0.92	1.01	0.86	0.76
600	600	300	1.22	1.08	1.15	1.01	1.08	0.94	0.81
600	600	400	1.42	1.27	1.32	1.18	1.22	1.08	0.91
600	800	300	1.52	1.33	1.45	1.26	1.38	1.19	1.02
700	500	250	1.12	0.98	1.05	0.91	0.98	0.84	0.75
800	600	200	1.32	1.13	1.26	1.06	1.19	1.00	0.92
800	600	250	1.43	1.24	1.35	1.16	1.27	1.08	0.98
800	600	300	1.55	1.36	1.45	1.26	1.36	1.16	1.04
800	600	400	1.78	1.58	1.65	1.46	1.52	1.33	1.16
800	800	250	1.79	1.54	1.71	1.46	1.63	1.38	1.24
800	800	300	1.92	1.66	1.82	1.57	1.73	1.47	1.30
800	1000	300	2.29	1.97	2.20	1.88	2.10	1.78	1.57
800	1200	300	2.50	2.28	2.57	2.18	2.47	2.09	1.84
1000	600	250	1.74	1.50	1.64	1.40	1.54	1.30	1.19
1000	600	300	2.04	1.63	1.75	1.51	1.63	1.39	1.27
1000	600	400	2.14	1.90	1.98	1.74	1.82	1.58	1.41
1000	800	250	2.17	1.85	2.07	1.75	1.97	1.65	1.51
1000	800	300	2.32	2.00	2.20	1.88	2.08	1.76	1.59
1000	800	400	2.61	2.29	2.45	2.13	2.29	1.97	1.74
1000	1000	300	2.76	2.36	2.64	2.24	2.52	2.12	1.91
1000	1200	300	3.20	2.72	3.08	2.60	2.96	2.48	2.23
1000	1200	400	3.44	3.07	3.39	2.91	3.23	2.75	2.42
1200	600	300	2.45	1.91	2.05	1.76	1.91	1.62	1.49
1200	600	400	2.83	2.21	2.30	2.02	2.11	1.82	1.66
1200	800	300	2.71	2.33	2.57	2.18	2.42	2.04	1.87
1200	800	400	3.04	2.66	2.85	2.46	2.66	2.27	2.05
1200	1000	300	3.23	2.75	3.08	2.60	2.94	2.46	2.25
1200	1000	400	3.70	3.10	3.39	2.91	3.20	2.72	2.44
1200	1200	300	3.74	3.17	3.60	3.02	3.46	2.88	2.63
1400	1000	300	3.86	3.14	3.53	2.97	3.36	2.80	2.59

	Installation mode
1	Accessible from every side
2	Placed against a wall
3	On the end when suited
4	On the end when suited, placed against a wall
5	In the middle when suited
6	In the middle when suited, placed against a wall
7	In the middle when suited, placed against a wall, closed covered top

The surfaces are given in m^2.

Use ProClima
to save time and find
the best solution!

Help table to calculate corrected surfaces

THALASSA wall-mounting enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
310	215	160	0.26	0.23	0.24	0.21	0.22	0.19	0.17
307	255	164	0.29	0.26	0.27	0.24	0.25	0.22	0.19
430	330	200	0.50	0.45	0.47	0.41	0.43	0.38	0.33
530	430	200	0.72	0.63	0.68	0.59	0.64	0.55	0.49
645	435	250	0.95	0.84	0.88	0.77	0.82	0.71	0.63
745	535	300	1.34	1.19	1.26	1.10	1.17	1.01	0.89
845	635	300	1.69	1.47	1.59	1.37	1.49	1.27	1.14
1055	850	350	2.70	2.34	2.55	2.19	2.40	2.04	1.83

THALASSA floor-standing enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
500	500	320	0.96	0.86	0.90	0.80	0.83	0.73	0.62
500	750	320	1.30	1.15	1.24	1.09	1.17	1.02	0.85
500	1000	320	1.64	1.44	1.57	1.37	1.51	1.31	1.08
500	1250	320	1.97	1.72	1.91	1.66	1.85	1.60	1.32
750	500	320	1.33	1.18	1.24	1.09	1.14	0.99	0.88
750	750	320	1.78	1.56	1.68	1.46	1.59	1.36	1.20
750	1000	320	2.23	1.93	2.13	1.83	2.04	1.74	1.51
750	1250	320	2.68	2.30	2.58	2.21	2.49	2.11	1.83
1000	500	320	1.70	1.50	1.57	1.37	1.44	1.24	1.13
1000	750	320	2.26	1.96	2.13	1.83	2.01	1.71	1.54
1000	1000	320	2.82	2.42	2.70	2.30	2.57	2.17	1.94
1000	1250	320	3.39	2.89	3.26	2.76	3.13	2.63	2.35
1250	500	320	2.07	1.82	1.91	1.66	1.75	1.50	1.39
1250	750	320	2.74	2.37	2.58	2.21	2.42	2.05	1.88
1250	1000	320	3.42	2.92	3.26	2.76	3.10	2.60	2.37
1250	1250	320	4.09	3.47	3.93	3.31	3.77	3.15	2.87
1500	500	320	2.44	2.14	2.25	1.95	2.05	1.75	1.64
1500	750	320	3.23	2.78	3.03	2.58	2.84	2.39	2.22
1500	1000	320	4.01	3.41	3.82	3.22	3.63	3.03	2.80
1500	1250	320	4.80	4.05	4.61	3.86	4.42	3.67	3.39
500	500	420	1.12	1.02	1.04	0.94	0.95	0.85	0.71
500	750	420	1.49	1.34	1.41	1.26	1.33	1.18	0.96
500	1000	420	1.87	1.67	1.78	1.58	1.70	1.50	1.20
500	1250	420	2.24	1.99	2.15	1.90	2.07	1.82	1.45
750	500	420	1.54	1.39	1.41	1.26	1.28	1.13	0.99
750	750	420	2.02	1.80	1.89	1.67	1.77	1.54	1.32
750	1000	420	2.51	2.21	2.38	2.08	2.25	1.95	1.66
750	1250	420	2.99	2.61	2.86	2.49	2.74	2.36	2.00
1000	500	420	1.95	1.75	1.78	1.58	1.61	1.41	1.27
1000	750	420	2.55	2.25	2.38	2.08	2.21	1.91	1.69
1000	1000	420	3.14	2.74	2.98	2.58	2.81	2.41	2.11
1000	1250	420	3.74	3.24	3.57	3.07	3.41	2.91	2.54
1250	500	420	2.36	2.11	2.15	1.90	1.94	1.69	1.55
1250	750	420	3.07	2.70	2.86	2.49	2.65	2.28	2.06
1250	1000	420	3.78	3.28	3.57	3.07	3.36	2.86	2.57
1250	1250	420	4.49	3.87	4.28	3.66	4.07	3.45	3.08
1500	500	420	2.78	2.48	2.53	2.23	2.27	1.97	1.83
1500	750	420	3.60	3.15	3.35	2.90	3.10	2.65	2.43
1500	1000	420	4.42	3.82	4.17	3.57	3.92	3.32	3.02
1500	1250	420	5.24	4.49	4.99	4.24	4.74	3.99	3.62

Help table to calculate corrected surfaces

Spacial floor-standing enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
1200	800	300	2.71	2.33	2.57	2.18	2.42	2.04	1.87
1200	1000	300	3.23	2.75	3.08	2.60	2.94	2.46	2.25
1200	1200	400	4.13	3.55	3.94	3.36	3.74	3.17	2.83
1400	600	300	2.52	2.18	2.35	2.02	2.18	1.85	1.72
1400	600	400	2.86	2.52	2.63	2.30	2.41	2.07	1.90
1400	800	300	3.11	2.66	2.94	2.49	2.77	2.32	2.16
1400	800	400	3.47	3.02	3.25	2.80	3.02	2.58	2.35
1400	1000	400	4.09	3.53	3.86	3.30	3.64	3.08	2.80
1400	1200	400	4.70	4.03	4.48	3.81	4.26	3.58	3.25
1600	600	300	2.84	2.46	2.65	2.27	2.46	2.08	1.95
1600	600	400	3.22	2.83	2.96	2.58	2.70	2.32	2.15
1600	800	300	3.50	2.99	3.31	2.80	3.12	2.61	2.44
1600	800	400	3.90	3.39	3.65	3.14	3.39	2.88	2.66
1600	1000	300	4.16	3.52	3.97	3.33	3.78	3.14	2.93
1600	1000	400	4.59	3.95	4.34	3.70	4.08	3.44	3.16
1600	1200	300	4.82	4.06	4.63	3.86	4.44	3.67	3.42
1600	1200	400	5.28	4.51	5.02	4.26	4.77	4.00	3.66
1800	600	300	3.17	2.74	2.95	2.52	2.74	2.30	2.18
1800	600	400	3.58	3.14	3.29	2.86	3.00	2.57	2.40
1800	600	500	3.98	3.55	3.62	3.19	3.26	2.83	2.62
1800	800	300	3.90	3.32	3.68	3.11	3.47	2.89	2.72
1800	800	400	4.34	3.76	4.05	3.47	3.76	3.18	2.96
1800	800	500	4.77	4.20	4.41	3.84	4.05	3.48	3.20
1800	800	600	5.21	4.63	4.78	4.20	4.34	3.77	3.43
1800	1000	400	5.10	4.38	4.81	4.09	4.52	3.80	3.52
1800	1000	500	5.56	4.84	5.20	4.48	4.84	4.12	3.77
1800	1200	400	5.86	4.99	5.57	4.70	5.28	4.42	4.08
1800	1200	500	6.35	5.48	5.99	5.12	5.63	4.76	4.34
1800	1600	400	7.38	6.22	7.09	5.94	6.80	5.65	5.20
1800	1600	500	7.92	6.77	7.56	6.41	7.20	6.05	5.49
2000	600	300	3.49	3.01	3.25	2.77	3.01	2.53	2.41
2000	600	400	3.94	3.46	3.62	3.14	3.30	2.82	2.65
2000	600	500	4.38	3.90	3.98	3.50	3.58	3.10	2.89
2000	800	300	4.30	3.66	4.06	3.42	3.82	3.18	3.01
2000	800	400	4.77	4.13	4.45	3.81	4.13	3.49	3.26
2000	800	500	5.24	4.60	4.84	4.20	4.44	3.80	3.52
2000	800	600	5.71	5.07	5.23	4.59	4.75	4.11	3.78
2000	1000	400	5.60	4.80	5.28	4.48	4.96	4.16	3.88
2000	1000	500	6.10	5.30	5.70	4.90	5.30	4.50	4.15
2000	1200	400	6.43	5.47	6.11	5.15	5.79	4.83	4.50
2000	1200	500	6.96	6.00	6.56	5.60	6.16	5.20	4.78
2000	1200	600	7.49	6.53	7.01	6.05	6.53	5.57	5.06
2000	1600	400	8.10	6.82	7.78	6.50	7.46	6.18	5.73
2000	1600	500	8.68	7.40	8.28	7.00	7.88	6.60	6.04
2000	1600	600	9.26	7.98	8.78	7.50	8.30	7.02	6.35

	Installation mode
1	Accessible from every side
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The surfaces are given in m^2.

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Help table to calculate corrected surfaces

Spacial suitable enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
1200	600	400	2.50	2.21	2.30	2.02	2.11	1.82	1.66
1200	600	600	3.10	2.81	2.81	2.52	2.52	2.23	1.98
1200	800	400	3.04	2.66	2.85	2.46	2.66	2.27	2.05
1200	800	600	3.70	3.31	3.41	3.02	3.12	2.74	2.40
1400	600	400	2.86	2.52	2.63	2.30	2.41	2.07	1.90
1400	800	400	3.47	3.02	3.25	2.80	3.02	2.58	2.35
1600	600	600	3.96	3.58	3.58	3.19	3.19	2.81	2.56
1600	600	800	4.70	4.32	4.19	3.81	3.68	3.30	2.96
1600	800	600	4.70	4.19	4.32	3.81	3.94	3.42	3.09
1600	800	800	5.50	4.99	4.99	4.48	4.48	3.97	3.52
1800	400	400	2.82	2.53	2.53	2.24	2.24	1.95	1.84
1800	400	500	3.20	2.91	2.84	2.55	2.48	2.19	2.05
1800	400	600	3.58	3.29	3.14	2.86	2.71	2.42	2.26
1800	600	400	3.58	3.14	3.29	2.86	3.00	2.57	2.40
1800	600	500	3.98	3.55	3.62	3.19	3.26	2.83	2.62
1800	600	600	4.39	3.96	3.96	3.53	3.53	3.10	2.84
1800	600	800	5.21	4.78	4.63	4.20	4.06	3.62	3.29
1800	800	400	4.34	3.76	4.05	3.47	3.76	3.18	2.96
1800	800	500	4.77	4.20	4.41	3.84	4.05	3.48	3.20
1800	800	600	5.21	4.63	4.78	4.20	4.34	3.77	3.43
1800	1000	400	5.10	4.38	4.81	4.09	4.52	3.80	3.52
1800	1000	500	5.56	4.84	5.20	4.48	4.84	4.12	3.77
1800	1000	600	6.02	5.30	5.59	4.87	5.16	4.44	4.02
1800	1200	400	5.86	4.99	5.57	4.70	5.28	4.42	4.08
1800	1200	500	6.35	5.48	5.99	5.12	5.63	4.76	4.34
1800	1200	600	6.84	5.98	6.41	5.54	5.98	5.11	4.61
2000	300	500	3.09	2.85	2.69	2.45	2.29	2.05	1.95
2000	300	600	3.49	3.25	3.01	2.77	2.53	2.29	2.17
2000	400	400	3.10	2.78	2.78	2.46	2.46	2.14	2.03
2000	400	500	3.52	3.20	3.12	2.80	2.72	2.40	2.26
2000	400	600	3.94	3.62	3.46	3.14	2.98	2.66	2.49
2000	400	800	4.77	4.45	4.13	3.81	3.49	3.17	2.94
2000	600	400	3.94	3.46	3.62	3.14	3.30	2.82	2.65
2000	600	500	4.38	3.90	3.98	3.50	3.58	3.10	2.89
2000	600	600	4.82	4.34	4.34	3.86	3.86	3.38	3.13
2000	600	800	5.71	5.23	5.07	4.59	4.43	3.95	3.62
2000	800	400	4.77	4.13	4.45	3.81	4.13	3.49	3.26
2000	800	500	5.24	4.60	4.84	4.20	4.44	3.80	3.52
2000	800	600	5.71	5.07	5.23	4.59	4.75	4.11	3.78
2000	800	800	6.66	6.02	6.02	5.38	5.38	4.74	4.29
2000	1000	400	5.60	4.80	5.28	4.48	4.96	4.16	3.88
2000	1000	500	6.10	5.30	5.70	4.90	5.30	4.50	4.15
2000	1000	600	6.60	5.80	6.12	5.32	5.64	4.84	4.42
2000	1000	800	7.60	6.80	6.96	6.16	6.32	5.52	4.96
2000	1200	400	6.43	5.47	6.11	5.15	5.79	4.83	4.50
2000	1200	500	6.96	6.00	6.56	5.60	6.16	5.20	4.78
2000	1200	600	7.49	6.53	7.01	6.05	6.53	5.57	5.06
2000	1200	800	8.54	7.58	7.90	6.94	7.26	6.30	5.63
2000	1600	400	8.10	6.82	7.78	6.50	7.46	6.18	5.73
2000	1600	500	8.68	7.40	8.28	7.00	7.88	6.60	6.04
2000	1600	600	9.26	7.98	8.78	7.50	8.30	7.02	6.35
2200	400	600	4.30	3.94	3.77	3.42	3.24	2.89	2.72
2200	600	600	5.26	4.73	4.73	4.20	4.20	3.67	3.42
2200	600	800	6.22	5.69	5.51	4.98	4.81	4.28	3.94
2200	800	600	6.22	5.51	5.69	4.98	5.16	4.46	4.12
2200	800	800	7.23	6.53	6.53	5.82	5.82	5.12	4.67
2200	1000	600	7.18	6.30	6.65	5.77	6.12	5.24	4.82
2200	1200	600	8.14	7.08	7.61	6.55	7.08	6.02	5.52
2200	1200	800	9.26	8.21	8.56	7.50	7.86	6.80	6.13

Annexes and spare parts

Annexes and spare parts
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Enclosure certifications

Product certifications are awarded for enclosures as components.

Range		Aim of the certification			
		International standard for electric power enclosures	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	ATEX
		Standard/Directive			
		IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 94/9/EC EN 60079-0 and -7 EN 61241-0 and -1
SPACIAL	SF	●	●	● ●	
	SM	●	●	● ● (2)	
	S3D	●	●	● ● ● ●	● (1)
	CRN	●	●	●	
	S57	●	●		
	SFX	● (2)	● (2)		
	SMX	●	●	●	
	S3X	●	●	●	● (1)
THALASSA	PLA	●	●	●	
	PLD	●			
	PLM	●	●	●	● (1)
	PLS	●	●		
	TBS/TBP	●	●		
CLIMASYS	CV		●		

(1) ATEX certifications relate to an adapted part of the range. These ranges are distinguished by their EX endings.
(2) In process.

Official certification body								
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TUV Rheiland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	Det Norske Veritas	Germanischer Lloyd	Lloyd´s Register
PB500048	PB500049	PB500048	PB500050	PB500051	PB500052	PB500053	PB500054	PB500055
●	●	●	●	●	●	●	●	●

International enclosure standard
Standards IEC 62208*

PB500056

Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application

For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application

Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current.

Information supplied by the manufacturer

- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use:
  Ambient air temperature for outdoor installations: –25 to +40 °C.
- Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25 °C.
- Transport and storage conditions: from –25 to +55 °C; for limited periods not exceeding 24 h: up to +70 °C.

* European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).

PB500057

Standard tests of standard IEC 62208

- Static loads: test 1.25 x maximum admissible load during 1 hour.
- Lifting: applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: ball test at 70 °C (1).
- Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000 V (1).
- Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
- Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
- Corrosion resistance:

– For indoor enclosures:
  • 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
  • 2 cycles of 24 hours of the salt mist test at 35 °C.
– For outdoor enclosures:
  • 12 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
  • 14 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

(1) Information required for enclosures made from insulating material.
(2) For metal enclosures.

Selection of enclosures

Selection according to the IP protection degrees.

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.
The following table shows the protection degrees of the enclosures.

Name	Range	IP 40	IP 41	IP 42	IP 43	IP 44	IP 54	IP 55	IP 65	IP 66
Metal industrial boxes	Spacial S44 and S57									●
Metal derivation boxes	Spacial SDB							●		
Steel universal wall-mounting enclosures	Spacial S3D							● (1)		●
	Spacial CRN									●
	Spacial CRNG							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
EMC steel wall-mounting enclosures	Spacial S3HF							●		
HMI steel wall-mounting enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Stainless-steel wall-mounting enclosures	Spacial S3X									●
ATEX stainless-steel wall-mounting enclosures	Spacial S3XEX									●
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP									●
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
ATEX polyester wall-mounting enclosures	Thalassa PLMEX									●
Polyester floor-standing enclosures	Thalassa PLA (2)					●	●		●	
	Thalassa PLD				●		● (3)			

(1) Double door.
(2) Different IP depending on the version. See introduction in Thalassa PLA section.
(3) With gasket.

The universal offer

3 Material Solutions

- Steel
- Stainless-steel
- Plastic & Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

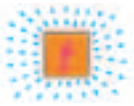
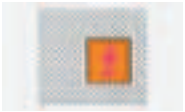
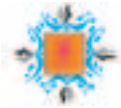
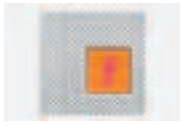
Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page **787**.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page **783**.

Degrees of protection provided by enclosures

- The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
- Degrees of protection are indicated by the letters IP followed by two characteristic numerals.
  The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Note: Many EN European standards are harmonised with international IEC standards.
This is the case with enclosure protection standards:
– EN 60529 = IEC 60529.
– EN 62262 = IEC 62262.

	IP	IK
First numeral Protection against solid bodies	**Second numeral** Protection against liquids	Mechanical protection
0 No protection	**0** No protection	**0** No protection
1 Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand)	**1** Protected against vertically falling water droplets (condensation)	**01** 7,5 cm Impact energy: 0.150 Joules.
2 Protected against solid bodies larger than 12 mm (e.g.: finger contact)	**2** Protected against water droplets deflected at up to 15° from vertical	**02** 10 cm Impact energy: 0.200 Joules.
3 Protected against solid bodies larger than 2.5 mm (tools, wires)	**3** Protected against rainwater at up to 60° from vertical	**03** 17,5 cm Impact energy: 0.350 Joules.
4 Protected against solid bodies larger than 1 mm (fine tools, small wires)	**4**  Protection against water spray from all directions	**04** 25 cm Impact energy: 0.500 Joules.
5  Protected against dust (no harmful deposits)	**5**  Protected against low-pressure water jets from all directions	**05** 35 cm Impact energy: 0.700 Joules.
6  Totally dust tight	**6** Protected against powerful water jets from all directions	**06** 20 cm Impact energy: 1.00 Joules.
	7 Protected against the effects of immersion	**07** 40 cm Impact energy: 2.00 Joules.
	8 Protected against prolonged effects of immersion under pressure	**08** 29,5 cm Impact energy: 5.00 Joules.
		09 20 cm Impact energy: 10.00 Joules.
		10 40 cm Impact energy: 20.00 Joules.

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.
These classifications are similar.
The 1st table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.
The 2nd table indicates the classification of our enclosures.
These classifications appear in our UL certifications (see Certification technical annex on page **778**).
Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification												
	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●	●			
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●	●
Rain, frost(*) and snow			●	●	●	●	●		●	●			
Frost (**)					●								
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●			
Splashes and jets of water						●	●		●	●			
Gentle splashes and leaks of oil or non-corrosive coolants											●	●	●
Drips, splashing and spraying of oil or non-corrosive coolants													●
Corrosive agents							●			●			
Occasional temporary immersion									●	●			
Occasional prolonged immersion										●			

(*) The operation of the external mechanisms is not required when the enclosure is covered with frost.
(**) The operation of the external mechanisms is required when the enclosure is covered with frost.

Enclosures		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Steel wall-mounting enclosures	S3D (1)	●	● (*)	● (*)	● (*)		● (*)	● (*)	●			●	● (**)	●
	CRN	●	● (*)	● (*)	● (*)		● (*)		● (*)			●		●
	S3HF	●	●	●	●				●			●		●
Stainless-steel wall-mounting enclosures	S3X (2)	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	● (**)	● (*)
Steel floor-standing enclosures	SM	●	● (*)	● (*)	● (*)		● (*)		● (*)			●	●	●
Steel suitable enclosures	SF	●										●	●	
Stainless-steel floor-standing enclosures	SMX	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	●	●
Stainless-steel suitable enclosures	SFX	●										●	●	
Thermoplastic boxes	TBP	●		●		●	●	●						
Polyester modular boxes	PLS	●	●	●	●	●	●	●				●		●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●	●	●	●			●	●	●
Polyester floor-standing enclosures	PLA	●	●	● (*)	● (*)	● (*)	● (*)	● (*)	● (*)			●		●

(1) Also S3DM, S3DEX, S57, S3DC and CRNG.
(2) Also S3XEX.
(*) 1 door.
(**) 2 doors.

Components		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Ventilation system	CV											●	●	
Thermal regulation system	CC											●	●	

(1) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

Classification of electrical equipment enclosures according to NEMA and UL

PB500063

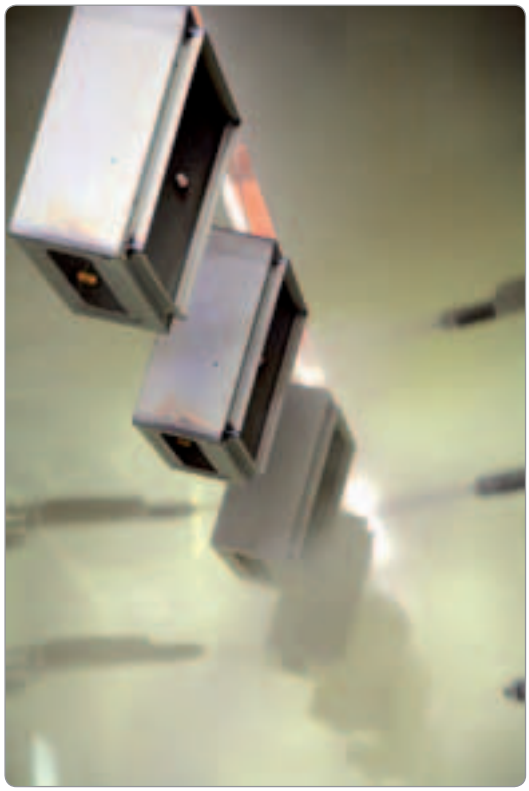
The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment.
The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use.	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
4	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed of water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use. (without knockouts).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
12K	Indoor use. (enclosures with pre-routing).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

Note: The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.
The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

PB500064

Polyester base coating properties



PB500058

Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion.
The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance.
Grey RAL 7035; appearance: structured.

Mechanical properties

Test conditions: steel samples with a thickness of 1 mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 150 to 200 micron film:
Film intact.
Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20%						
	Sulphuric	30%						
	Nitric	30%						
	Phosphoric	30%						
	Hydrochloric	30%						
	Lactic	10%						
	Citric	10%						
Base	Soda	10%						
	Ammonia	10%						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher alcohols							
	Aliphatics							
	Aromatics							
	Ketones-esters							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: –40 °C and 100 hours at +150 °C (colour: white).
Gloss retention: good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

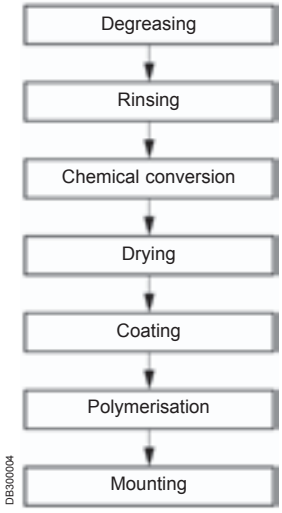
Accelerated aging

Standard IEC 62208: 500h UV according to ISO 4892 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



Properties of the plastic materials

Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	–40...+90	–50...+125	–20...+65	–35...+90	–50...+150	–40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	–20...+80	–10...+80	–15...+60	–20...+100	–50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Specific weight	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2	°C	960	650	650	850	650

Properties of the plastic materials

Resistance to chemical agents

The table shows:
- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
  +: Resistant.
  O: Limited resistance.
  –: Not resistant.

Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Resistance to	ABS		Polycar-bonate		PVC		Bayblend®		Polyester		Altuglas		Polypro-pylene		Poly-styrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50 90	O –		+ +	sat	+
Nitric acid	30	+	10 100	+ –	50	+	10	+	20	+ +	10 100	+ –	25/ 50			O	2 10	O –		–	50	+
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10 95	+ –	sat	+		O	2 10	O –	50	+		+
Sulphuric acid	50	+	50 100	+ –	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				–	100	–		–	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

For other chemical agents, please contact us.
All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

Electromagnetic compatibility

General

The increasing presence of electromagnetic interference in industrial environments, together with the use of equipment susceptible to such interference requires the use of suitably protected enclosures.
In order to suppress electromagnetic interference, S3HF enclosures, due to the type of sheet metal and special gaskets used, fulfil two functions:
- Provision of adequate screening, with the effectiveness of a Faraday cage.
- Ability to provide effective protection of sensitive equipment by using galvanised sheet metal chassis, and by following recommended installation procedures.

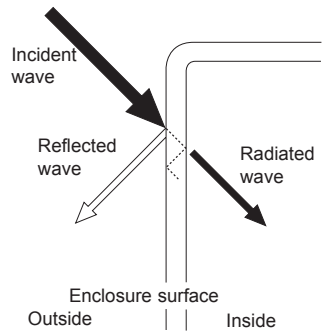
Electromagnetic interference

Electromagnetic disruptions comprises an electrical field E generated by a differing potentials, and a magnetic field M, caused by current circulation, which combine to form electromagnetic field.
The electromagnetic interference or "noise" is a disruptive electrical signal which affects the useful signal and it likely to cause a malfunction.
Interference can be carried through the conductors or emitted through the environment.

Main sources of electrical interference and equipment sensitive to it

- Programmable controllers.
- Electronic circuits or boards.
- Regulators.
- Input signal cables (detectors, sensors, measurement probes).
- Analogue signal cables.

Main sources of electrical interference	
Material	**Frequency range**
Motors	10 kHz...100 MHz
Transformers/rectifiers	10 kHz...100 MHz
Inductive load switching	50 kHz...10 MHz
Spot welders	10 kHz...50 MHz
Fluorescent lamps	100 kHz...3 MHz
Relays, contactors	10 kHz...200 MHz
Switching power sources	10 kHz...30 MHz
Computers (internal clock)	50 kHz...200 MHz
Variable speed drives	10 kHz...100 MHz
Induction furnaces	0...10 kHz
Power cables, etc.	0...10 kHz



DB300006

Attenuation level of EMC fields

The waves of electrical or magnetic fields are reflected when they meet the sheet metal of the enclosure.
The effective rate of the screening or dampening "a" of the incident wave is measured in decibels (dB) using the following formulae:

$a = 20 \log \frac{E_0}{E_1}$ (dB) for electrical fields,

$a = 20 \log \frac{H_0}{H_1}$ (dB) for magnetic fields,

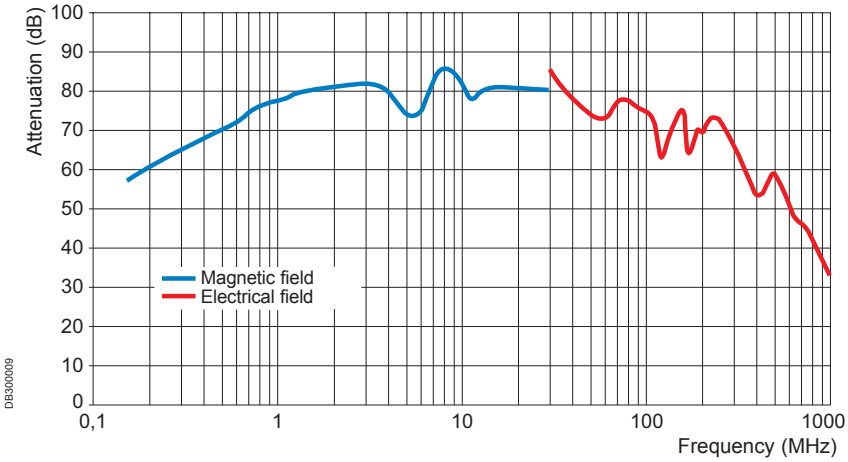
E0 and E1 are the current values of the electrical field, before entering and after entering the enclosure respectively.

H0 and H1 are the magnetic field values.

Electromagnetic compatibility

Example of attenuation level of S3HF enclosures

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.
The graphic next to these lines shows the attenuation curves (dB) according to the frequency (MHz).



Installation

According to the type of interference generated by the devices:
- Low frequencies, "conducted interference" (up to 30 MHz).
- High frequencies, "radiated interference" (higher than 1 MHz).

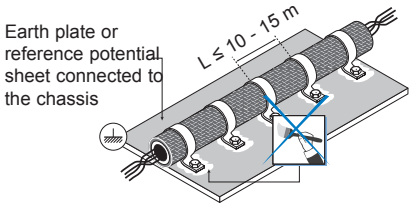
the rules to be taken into account relate to the choice of components that provide the most economical solution to complete the installation.

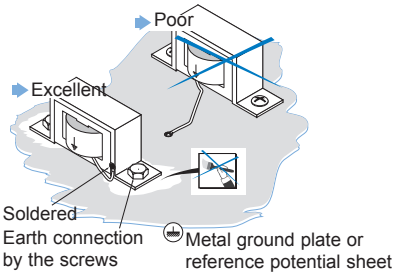
Low-frequency interference

- Importance of the protection systems:
  – Filters, overvoltage suppressor, isolating transformer for the power supply.
  – Cable length.

High-frequency interference

- Importance of the installation method:
  – Earth connections, cable length and section.
  – Cable selection and rules, cable runs, connections.
  – Enclosures and installation.





Specifics

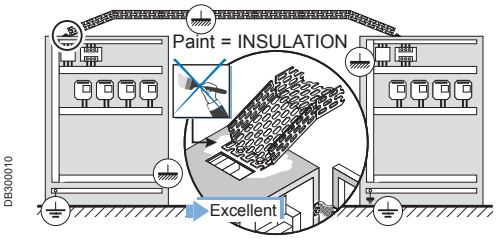
Screen connections

It is recommended to earth screens at both ends. In addition, it is advisable to increase the number of intermediate earth connections.
If the screen is only earthed at one end, there can be a considerable difference in potential between the two ends. In addition, this screen will be ineffective against external high-frequency interference.

Transformers

The transformer chassis must be mounted, metal to metal, on the reference potential plate, that is, on a plain chassis supporting the equipment.

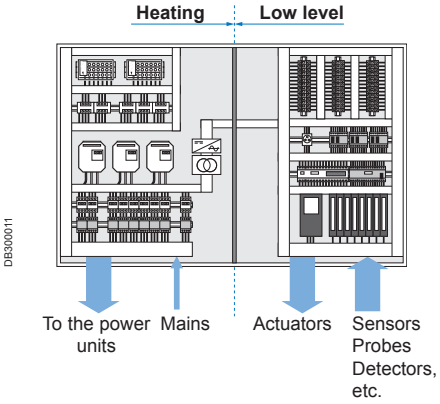
Electromagnetic compatibility



DB300010

Cable runs

The metal ducts and conduits, when correctly connected, provide an extremely effective second screen for the cables.
Cable ends must be screwed to the metal enclosures in order to provide an effective connection.



DB300011

Enclosures

The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note: For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility".

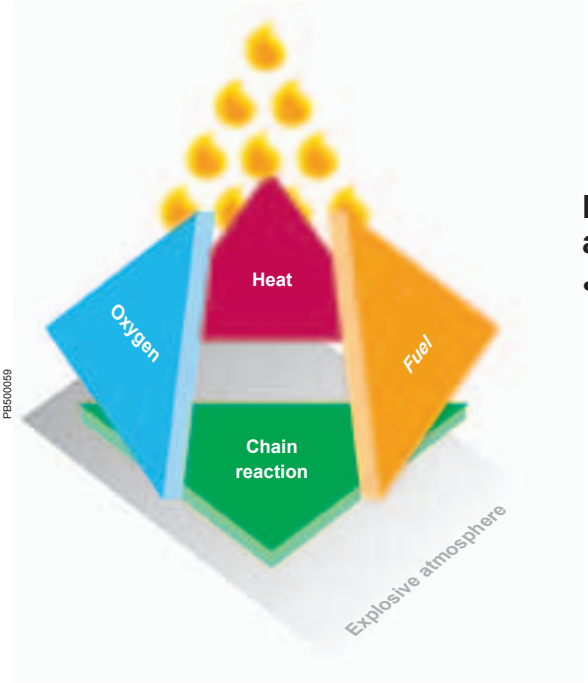
Potentially explosive atmospheres: important information

Product directive 94/9/CE: defines the manufacturers' obligations.

Personal protection directive 99/92/CE: defines the users' obligations.

What is ATEX?

- It is a term commonly used to describe potentially EXplosive ATmospheres and standards for protection systems and equipment.
- Two European directives, ATEX 99/92/CE and ATEX 94/9/CE, and international standards IEC 60079 and IEC 61241, harmonized with EN European standards, apply to this field.



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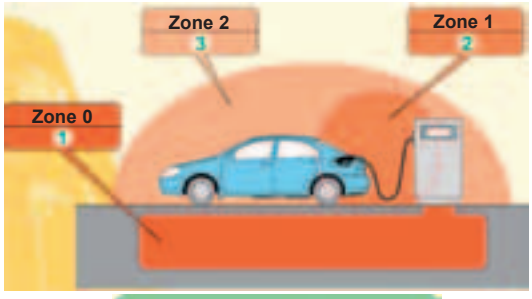
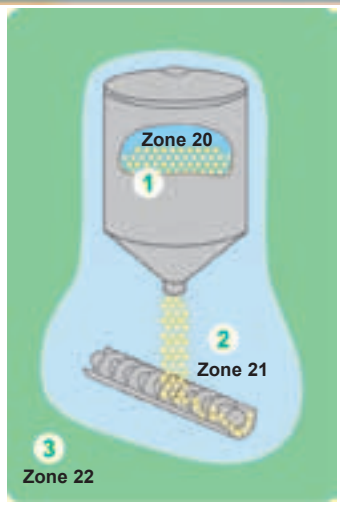
How is a potentially explosive atmosphere defined according to ATEX?

- An potentially explosive atmosphere is defined as a mix of flammable substances in the form of gas, vapour, dust (cloud or deposit) which, in air and under normal atmospheric conditions, can completely or partially catch fire in the form of an explosion when exposed to a source of ignition.



PB500060



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Classification of an explosive atmosphere

- They are classified into groups and zones according to directive 99/92/CE and IEC standards as follows:

Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	**M1 and M2**	**Gas and dust (G & D)**	
Group II surface Industries	1 Permanent or frequent	**Zone 0:** gas and vapour	G
		Zone 20: mist and dust	D
	2 Occasional	**Zone 1:** gas and vapour	G
		Zone 21: mist and dust	D
	3 Rare	**Zone 2:** gas and vapour	G
		Zone 22: mist and dust	D

Equipment for potentially explosive atmospheres

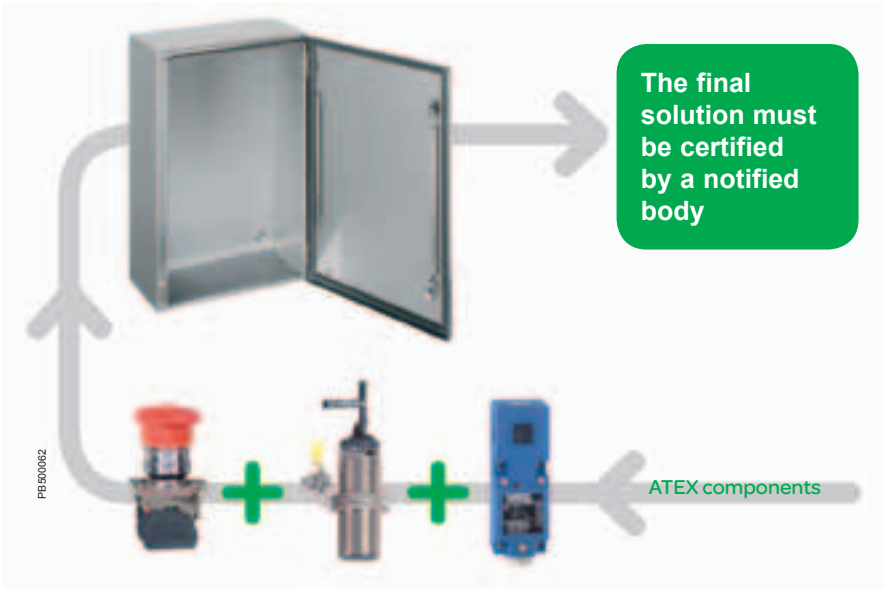
- Since 1st July 2003, European directive ATEX 94/9/CE has made it compulsory to use certified electric or non-electric equipment when it must be installed in zones with explosive atmospheres (gas or dust).
- Certification must be provided by a body which is notified according to the same directive.
- The body notifies its assessment of the quality of the production and certifies that the product complies with the health and safety demands defined in the directive and the international standards.
- The certificate shows the category of the product by marking, and thus the zone and atmosphere in which it can be used.
- The standards define the following types of protection for electric equipment:

Electrical equipment				
CENELEC	**IEC**	**Gas: symbol of the types of protection**	**CENELEC/IEC**	**Powder: symbol of the types of protection**
EN 60079-0	IEC 60079-0	General rules	IEC/EN 61241-0	General rules
EN 50015	IEC 60079-6	**0**-oil immersion	IEC/EN 61241-1	**tD**-protection by enclosures
EN 50016	IEC 60079-2	**p**-pressurised enclosures	IEC/EN 61241-4	**pD**-protection by pressurisation
EN 50017	IEC 60079-5	**q**-powder filling	IEC/EN 61241-11	**iD**-protection by intrinsic safety
EN 60079-1	IEC 60079-1	**d**-flameproof enclosures	IEC/EN 61241-18	**mD**-protection by encapsulation
EN 60079-7	IEC 60079-7	**e**-increased safety		
EN 50020	IEC 60079-11	**i**-intrinsic safety		
EN 60079-15	IEC 60079-15	**n**-type of protection “n”		

Degree of protection

In hazardous areas, equipment is required to offer a minimum degree of protection of IP 54, but it can be tested or certified with a higher degree of protection.

- Enclosures are certified as components. They will be assembled with other ATEX electrical, pneumatic and hydraulic components, among others to form a final solution which, in turn, must be ATEX-certified and subject to a declaration of conformity.



Fields of application of Schneider Electric ATEX enclosures

3 Material solutions for wall-mounting enclosures

Steel

Stainless-steel

Polyester

Zone of application of Schneider Electric ATEX wall-mounting enclosures

Three types of enclosures

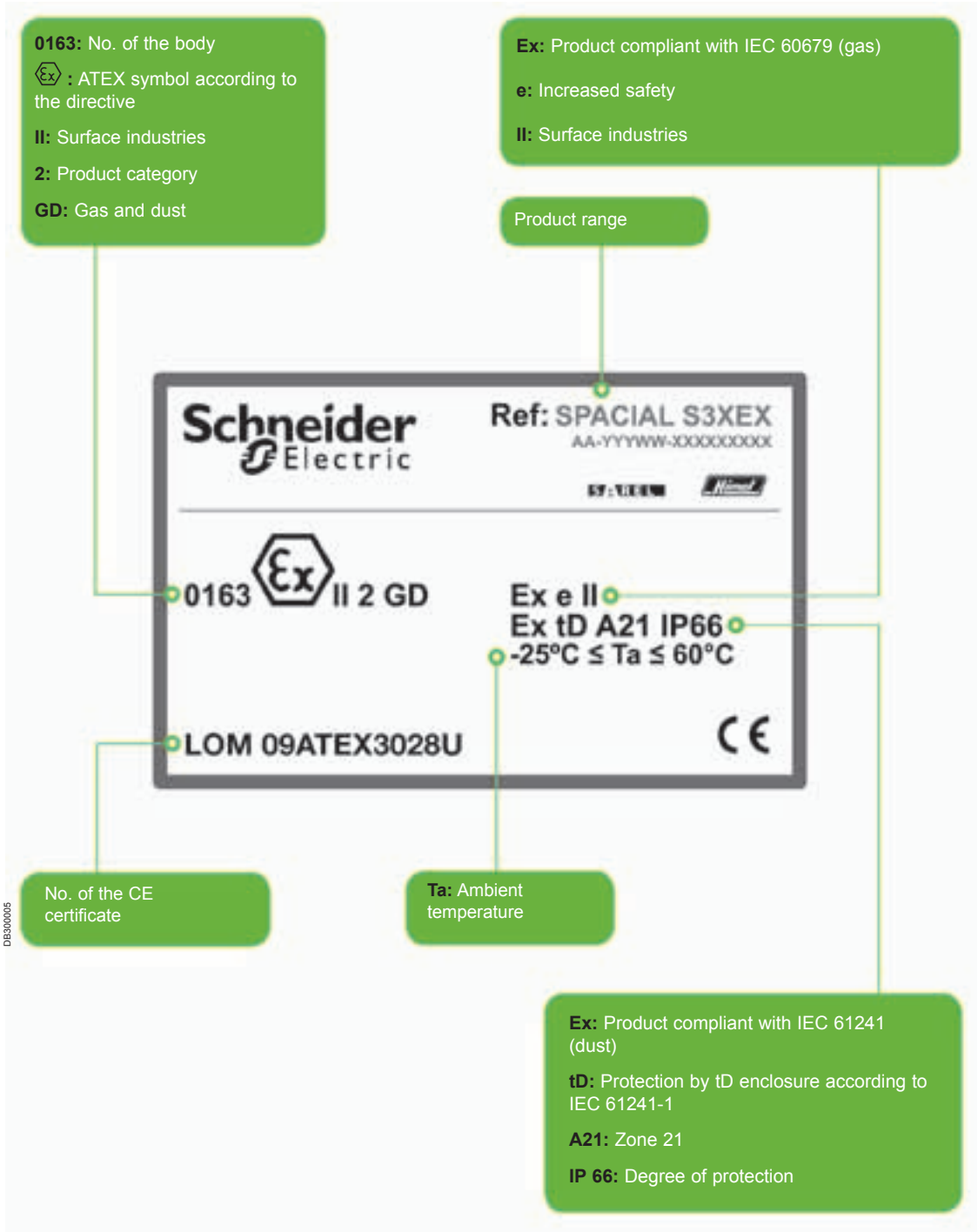
- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the increased risk of explosion in atmospheres charged with gas (G) and/or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	**M1 and M2**	**Gas and dust (G & D)**	
Group II Surface industries	1 Permanent or frequent	**Zone 0:** gas and vapour	G
		Zone 20: mist and dust	D
	2 Occasional	**Zone 1:** gas and vapour	G
		Zone 21: mist and dust	D
	3 Rare	**Zone 2:** gas and vapour	G
		Zone 22: mist and dust	D

- Category 2 products can be used as category 3.
- Our products are qualified for increased safety “e” (Ex e) but not for explosion-proof safety “d” (Ex d).
- The wall-mounting enclosures have the following marks:
  Ⓔx II 2 GD Ex e II Ex tD A21 IP 66 according to directive 94/9/CE and standards EN 60079-0 (2004), EN 60079-7 (2006), EN 61241-0 (2005) and EN 61241-1 (2004).
- The wall-mounting enclosures offer a degree of protection IP 66 according to EN 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

Description of the marking label affixed to ATEX certified wall-mounting enclosures

Download our ATEX certificates from our site.



Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Standard door hinges and pins. 4 units. OLN/S6000	Door accessories								●		●				NSYDHS6
Standard door hinges and pins. 4 units. CMO/S18500	Door accessories									●		●			NSYDHS18
Standard gasket for gland plate, 2000 mm. OLN/CMO/S6000/S18500	Door accessories								●	●	●	●			NSYGKTS6
Set of 4 Hinges & fixing elements for SF/SM	Door accessories												●	●	NSYDHSF
Standard Spacial hinge CRN	Door accessories						●								NSYBICRN
Gasket double door encl. for S3D	Door accessories	●													NSYGDD
Set of 5 taps and latches S3D	Door accessories	●													NSYS3DTL
Glazed door H300xW250 CRN	Doors						●								NSYDCRN3025T
Glazed door H300xW300 CRN	Doors						●								NSYDCRN33T
Glazed door H300xW400 CRN	Doors						●								NSYDCRN34T
Glazed door H400xW300 CRN	Doors						●								NSYDCRN43T
Glazed door H400xW400 CRN	Doors						●								NSYDCRN44T
Glazed door H400xW600 CRN	Doors						●								NSYDCRN46T
Glazed door H500xW400 CRN	Doors						●								NSYDCRN54T
Glazed door H500xW500 CRN	Doors						●								NSYDCRN55T
Glazed door H600xW400 CRN	Doors						●								NSYDCRN64T
Glazed door H600xW500 CRN	Doors						●								NSYDCRN65T
Glazed door H600xW600 CRN	Doors						●								NSYDCRN66T
Glazed door H600xW800 CRN	Doors						●								NSYDCRN68T
Glazed door H700xW500 CRN	Doors						●								NSYDCRN75T
Glazed door H800xW600 CRN	Doors						●								NSYDCRN86T
Glazed door H800xW800 CRN	Doors						●								NSYDCRN88T
Glazed door H1000xW600 CRN	Doors						●								NSYDCRN106T
Glazed door H1000xW800 CRN	Doors						●								NSYDCRN108T
Plain door 300x200 S3D	Doors	●													NSYDS3D32
Plain door 300x250 S3D	Doors	●													NSYDS3D325
Plain door 300x300 S3D	Doors	●													NSYDS3D33
Plain door 300x400 S3D	Doors	●													NSYDS3D34
Plain door 400x300 S3D	Doors	●													NSYDS3D43
Plain door 400x400 S3D	Doors	●													NSYDS3D44
Plain door 400x600 S3D	Doors	●													NSYDS3D46
Plain door 500x300 S3D	Doors	●													NSYDS3D53
Plain door 500x400 S3D	Doors	●													NSYDS3D54
Plain door 500x500 S3D	Doors	●													NSYDS3D55
Plain door 600x400 S3D	Doors	●													NSYDS3D64
Plain door 600x500 S3D	Doors	●													NSYDS3D65
Plain door 600x600 S3D	Doors	●													NSYDS3D66
Plain door 600x800 S3D	Doors	●													NSYDS3D68
Plain door 700x500 S3D	Doors	●													NSYDS3D75
Plain door 800x600 S3D	Doors	●													NSYDS3D86
Plain door 800x800 S3D	Doors	●													NSYDS3D88
Plain door 800x1000 S3D	Doors	●													NSYDS3D810
Plain door 800x500 right S3D	Doors	●													NSYDS3D85R
Plain door 800x500 left S3D	Doors	●													NSYDS3D85L
Plain door 800x600 right S3D	Doors	●													NSYDS3D86R
Plain door 800x600 left S3D	Doors	●													NSYDS3D86L
Plain door 1000x600 S3D	Doors	●													NSYDS3D106
Plain door 1000x800 S3D	Doors	●													NSYDS3D108
Plain door 1000x1000 S3D	Doors	●													NSYDS3D1010
Plain door 1200x1000 S3D	Doors	●													NSYDS3D1210
Plain door 1000x500 right S3D	Doors	●													NSYDS3D105R
Plain door 1000x500 left S3D	Doors	●													NSYDS3D105L
Plain door 1000x600 right S3D	Doors	●													NSYDS3D106R
Plain door 1000x600 left S3D	Doors	●													NSYDS3D106L
Plain door 1200x600 S3D	Doors	●													NSYDS3D126
Plain door 1200x800 S3D	Doors	●													NSYDS3D128
Plain door 1200x500 right S3D	Doors	●													NSYDS3D125R
Plain door 1200x500 left S3D	Doors	●													NSYDS3D125L
Plain door 1200x600 right S3D	Doors	●													NSYDS3D126R
Plain door 1200x600 left S3D	Doors	●													NSYDS3D126L
Plain door 1400x500 right S3D	Doors	●													NSYDS3D145R
Plain door 1400x500 left S3D	Doors	●													NSYDS3D145L
Plain door 500x500 S3DCD	Doors				●										NSYDS3DCD55
Plain door 600x600 S3DCD	Doors				●										NSYDS3DCD66
Plain door 700x500 S3DCD	Doors				●										NSYDS3DCD75
Plain door 800x600 S3DCD	Doors				●										NSYDS3DCD86
Plain door 1000x600 S3DCD	Doors				●										NSYDS3DCD106
Plain door 1000x800 S3DCD	Doors				●										NSYDS3DCD108
Plain door 1000x1000 S3DCD	Doors				●										NSYDS3DCD1010
Plain door 1200x1000 S3DCD	Doors				●										NSYDS3DCD1210
Plain door 300x200 S3DC	Doors			●											NSYDS3DC32
Plain door 300x300 S3DC	Doors			●											NSYDS3DC33
Plain door 400x300 S3DC	Doors			●											NSYDS3DC43
Plain door 400x400 S3DC	Doors			●											NSYDS3DC44
Plain door 500x400 S3DC	Doors			●											NSYDS3DC54
Plain door 500x500 S3DC	Doors			●											NSYDS3DC55
Plain door 600x400 S3DC	Doors			●											NSYDS3DC64
Plain door 600x600 S3DC	Doors			●											NSYDS3DC66
Plain door 700x500 S3DC	Doors			●											NSYDS3DC75
Plain door 800x600 S3DC	Doors			●											NSYDS3DC86
Plain door 800x800 S3DC	Doors			●											NSYDS3DC88
Plain door 1000x600 S3DC	Doors			●											NSYDS3DC106
Plain door 1000x800 S3DC	Doors			●											NSYDS3DC108
Plain door 1000x1000 S3DC	Doors			●											NSYDS3DC1010
Plain door 1200x800 S3DC	Doors			●											NSYDS3DC128
Plain door 1200x1000 S3DC	Doors			●											NSYDS3DC1210
Plain door 250x300 S3DB	Doors					●									NSYDS3DB2530

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Plain door 250x400 S3DB	Doors					●									NSYDS3DB2540
Plain door 250x500 S3DB	Doors					●									NSYDS3DB2550
Plain door 300x300 S3DB	Doors					●									NSYDS3DB33
Plain door 300x400 S3DB	Doors					●									NSYDS3DB34
Plain door 300x500 S3DB	Doors					●									NSYDS3DB35
Plain door 300x600 S3DB	Doors					●									NSYDS3DB36
Plain door 400x300 S3DB	Doors					●									NSYDS3DB43
Plain door 400x800 S3DB	Doors					●									NSYDS3DB48
Plain door 500x400 S3DB	Doors					●									NSYDS3DB54
Plain door 600x400 S3DB	Doors					●									NSYDS3DB64
Glazed door 300x250 S3D	Doors	●													NSYDS3D325T
Glazed door 300x300 S3D	Doors	●													NSYDS3D33T
Glazed door 300x400 S3D	Doors	●													NSYDS3D34T
Glazed door 300x600 S3D	Doors	●													NSYDS3D36T
Glazed door 400x300 S3D	Doors	●	●												NSYDS3D43T
Glazed door 400x400 S3D	Doors	●													NSYDS3D44T
Glazed door 400x600 S3D	Doors	●													NSYDS3D46T
Glazed door 500x300 S3D	Doors	●													NSYDS3D53T
Glazed door 500x400 S3D	Doors	●	●												NSYDS3D54T
Glazed door 500x500 S3D	Doors	●													NSYDS3D55T
Glazed door 500x600 S3D	Doors	●													NSYDS3D56T
Glazed door 600x400 S3D	Doors	●	●												NSYDS3D64T
Glazed door 600x500 S3D	Doors	●													NSYDS3D65T
Glazed door 600x600 S3D	Doors	●	●												NSYDS3D66T
Glazed door 600x800 S3D	Doors	●													NSYDS3D68T
Glazed door 700x500 S3D	Doors	●	●												NSYDS3D75T
Glazed door 700x600 S3D	Doors	●													NSYDS3D76T
Glazed door 800x600 S3D	Doors	●	●												NSYDS3D86T
Glazed door 800x800 S3D	Doors	●													NSYDS3D88T
Glazed door 1000x600 S3D	Doors	●	●												NSYDS3D106T
Glazed door 1000x800 S3D	Doors	●	●												NSYDS3D108T
Glazed door 1000x1000 S3D	Doors	●													NSYDS3D1010T
Glazed door 1200x600 S3D	Doors	●													NSYDS3D126T
Glazed door 1200x800 S3D	Doors	●													NSYDS3D128T
Glazed door 1200x1000 S3D	Doors	●													NSYDS3D1210T
Glazed door 1000x500 right S3D	Doors	●													NSYDS3D105TR
Glazed door 1000x500 left S3D	Doors	●													NSYDS3D105TL
Glazed door 1200x500 right S3D	Doors	●													NSYDS3D125TR
Glazed door 1200x500 left S3D	Doors	●													NSYDS3D125TL
Plain door H200xW200 CRN	Doors						●								NSYDCRN22
Plain door H200xW300 CRN	Doors						●								NSYDCRN23
Plain door H250xW200 CRN	Doors						●								NSYDCRN2520
Plain door H300xW250 CRN	Doors						●								NSYDCRN3025
Plain door H300xW300 CRN	Doors						●								NSYDCRN33
Plain door H300xW400 CRN	Doors						●								NSYDCRN34
Plain door H300xW450 CRN	Doors						●								NSYDCRN3045
Plain door H400xW300 CRN	Doors						●								NSYDCRN43
Plain door H400xW400 CRN	Doors						●								NSYDCRN44
Plain door H400xW600 CRN	Doors						●								NSYDCRN46
Plain door H500xW400 CRN	Doors						●								NSYDCRN54
Plain door H500xW500 CRN	Doors						●								NSYDCRN55
Plain door H600xW400 CRN	Doors						●								NSYDCRN64
Plain door H600xW500 CRN	Doors						●								NSYDCRN65
Plain door H600xW600 CRN	Doors						●								NSYDCRN66
Plain door H600xW800 CRN	Doors						●								NSYDCRN68
Plain door H700xW500 CRN	Doors						●								NSYDCRN75
Plain door H800xW600 CRN	Doors						●								NSYDCRN86
Plain door H800xW800 CRN	Doors						●								NSYDCRN88
Plain door H1000xW600 CRN	Doors						●								NSYDCRN106
Plain door H1000xW800 CRN	Doors						●								NSYDCRN108
Roof trim neutral 1000 mm CMO/S18500	Doors									●		●			NSYTRIM10S18
Plain door H1800xW600 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU186
Plain door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU188
Plain door H2000xW600 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU206
Plain door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU208
Plain door H2000xW1000 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU2010
Transparent door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU188KT
Transparent door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU208KT
Set of 500 earthing labels	Earthing accessories	●	●	●		●	●	●							NSYSWMEL
100 screws cable gland plate S3D	Fixing hardware	●	●					●							NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware	●	●					●							NSYS3DCGPSTDSB
Standard handle in RAL 7011 OLN/CMO/S6000/S18500	Locking accessories								●	●	●	●			NSYSDH
Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories								●	●	●	●			NSYEMPOLN
Locking system for enclosures 1 single door version 1200H	Locking accessories								●	●	●	●			NSYLCK12S6
Locking system for enclosures 1 single door version 1600H	Locking accessories								●	●	●	●			NSYLCK16S6

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Locking system for enclosures 1 single door version 1800H	Locking accessories								•	•	•	•			NSYLCK18S6
Locking system for enclosures 1 single door version 2000H	Locking accessories								•	•	•	•			NSYLCK20S6
Locking system for enclosures 1 single door version 2200H	Locking accessories								•	•	•	•			NSYLCK22S6
Locking system for enclosures 1 single door version 1200H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK12SF
Locking system for enclosures 1 single door version 1600H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK16SF
Locking system for enclosures 1 single door version 1800H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK18SF
Locking system for enclosures 1 single door version 2000H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK20SF
Locking system for enclosures 1 single door version 2200H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK22SF
Locking system for double door enclosures. Secondary door. Spacial SF/SM	Locking accessories												•	•	NSYLCKSF
Set of 10 linkage guides S3D	Locking accessories	•	•	•											NSYS3DLG
Standard lock enclosures for S3DC	Locking accessories			•	•										NSYAEDLS3DC
Standard key DB3 S3D	Locking accessories	•	•			•									NSYAEDLS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories	•	•	•											NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D100
3 point lock linkage H 1200 mm S3D	Locking accessories	•		•	•										NSYBTAS3D120
3 point lock linkage H 1400 mm S3D	Locking accessories	•													NSYBTAS3D140
2244E key handle S3D	Locking accessories	•													NSYAEDL2244S3D
4322A key handle S3D	Locking accessories	•													NSYAEDL4322S3D
1332E key handle S3D	Locking accessories	•													NSYAEDL1332S3D
3132A key handle S3D	Locking accessories	•													NSYAEDL3132S3D
2132A key handle S3D	Locking accessories	•													NSYAEDL2132S3D
2124E key handle S3D	Locking accessories	•													NSYAEDL2124S3D
2314E key handle S3D	Locking accessories	•													NSYAEDL2314S3D
2241A key handle S3D	Locking accessories	•													NSYAEDL2241S3D
2322A key handle S3D	Locking accessories	•													NSYAEDL2322S3D
3432E key handle S3D	Locking accessories	•													NSYAEDL3432S3D
520 key handle S3D	Locking accessories	•													NSYAEDL520S3D
4324E key handle S3D	Locking accessories	•													NSYAEDL4324S3D
3123E key handle S3D	Locking accessories	•													NSYAEDL3123S3D
2131A key handle S3D	Locking accessories	•													NSYAEDL2131S3D
610E key handle S3D	Locking accessories	•													NSYAEDL610S3D
1344E key handle S3D	Locking accessories	•													NSYAEDL1344S3D
601 key handle S3D	Locking accessories	•													NSYAEDL601S3D
705E key handle S3D	Locking accessories	•													NSYAEDL705S3D
2432E key handle S3D	Locking accessories	•													NSYAEDL2432S3D
2133A key handle S3D	Locking accessories	•													NSYAEDL2133S3D
5124A key handle S3D	Locking accessories	•													NSYAEDL5124S3D

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
TCRE1 Lock for CRN	Locking accessories						●								NSYTCRE1
TCRE12 Lock for CRN	Locking accessories						●								NSYTCRE12
50 caps for holes of hinges WM	Panels	●	●	●	●	●		●							NSYSWMCH
Set of 50 back plugs WM	Panels	●	●	●	●	●	●	●							NSYSWMBP
Roof trim neutral 600 mm OLN/S6000	Panels								●		●				NSYTRIM6S6
Roof trim neutral 800 mm OLN/S6000	Panels								●		●				NSYTRIM8S6
Roof trim neutral 1000 mm OLN/S6000	Panels								●		●				NSYTRIM10S6
Roof trim neutral 600 mm CMO/S18500	Panels									●		●			NSYTRIM6S18
Roof trim neutral 800 mm CMO/S18500	Panels									●		●			NSYTRIM8S18
Side panel H1800xW500 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL185
Side panel H1800xW600 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL186
Side panel H2000xW500 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL205
Side panel H2000xW600 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL206
Side panel H2000xW800 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL208

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Cable gland plate SFX64	Cable gland plates		●										NSYCEX1
Cable gland plate SMX64/SFX65	Cable gland plates		●	●									NSYCEX2
Cable gland p. SDX85/SMX85/SFX86	Cable gland plates		●	●					●				NSYCEX7
Cable gland plate SFX84	Cable gland plates		●										NSYCEX4
Cable gland plate SMX103	Cable gland plates			●									NSYCEX10
Cable gland plate SMX104	Cable gland plates			●									NSYCEX11
Cable gland plate SMX104 316L	Cable gland plates			●									NSYCEX12
Cable gland plate SMX124	Cable gland plates			●									NSYCEX14
Cable gland plate SMX124 316L	Cable gland plates			●									NSYCEX15
Cable gland plate SMX125 316L	Cable gland plates			●									NSYCEX17
Cable gland plate SMX84/SMX164	Cable gland plates			●									NSYCEX5
Cable gland plate SMX166	Cable gland plates			●									NSYCEX8
Cable gland plate SMX166 316L	Cable gland plates			●									NSYCEX9
Cable gland plate SMX84/SMX164 316L	Cable gland plates			●									NSYCEX6
Cable gland plate SDX105/SFX106	Cable gland plates		●						●				NSYCEX13
Cable gland plate SDX125/SMX125	Cable gland plates			●					●				NSYCEX16
Cable gland plate SDX65/SFX126	Cable gland plates		●						●				NSYCEX3
Cable gland plate 800x400 mm SFX	Cable gland plates		●										NSYCEX84A
Cable gland pl. 1 entry W600 mm SD	Cable gland plates							●					NSYCESD6R
Cable gland pl. 1 entry W800 mm SD	Cable gland plates							●					NSYCESD8R
Cable gland pl. 1 entry W1000 mm SD	Cable gland plates							●					NSYCESD10R
Cable gland pl. 1 entry W1200 mm SD	Cable gland plates							●					NSYCESD12R
Cable gland pl. 1 entry W600xD800 mm SD	Cable gland plates							●					NSYFCESD68
Cable gland pl. 1 entry W800xD800 mm SD	Cable gland plates							●					NSYFCESD88
Cable gland pl. 1 entry W1000xD800 mm SD	Cable gland plates							●					NSYFCESD108
Cable gland pl. 1 entry W1200xD800 mm SD	Cable gland plates							●					NSYFCESD128
Cable gland pl. 1 entry W1600xD800 mm SD	Cable gland plates							●					NSYFCESD168
Cable gland pl. 1 entry W800xD1000 mm SD	Cable gland plates							●					NSYFCESD810
Cable gland pl. 1 entry W1000xD1000 mm SD	Cable gland plates							●					NSYFCESD1010
Cable gland pl. 1 entry W1200xD1000 mm SD	Cable gland plates							●					NSYFCESD1210
Cable gland pl. 1 entry W1600xD1000 mm SD	Cable gland plates							●					NSYFCESD1610
Hinges compact control desk SD	Door accessories							●					NSYHSD
Hinges control desk w/console SD	Door accessories							●					NSYHSDF
Standard Spacial hinge CRN	Door accessories						●						NSYBICRN
Hinge PLA (120° opening)	Door accessories					●							NSYAEDPLA004
Axes of door PLAZT (180° opening)	Door accessories					●							NSYAEDPLA005
Rod guide inside the door PLA (set of 2)	Door accessories					●							NSYAEDPLA001
Rod guide on 1 door PLA (set of 2)	Door accessories					●							NSYAEDPLA002
Rod guide on 2 doors PLA (set of 2)	Door accessories					●							NSYAEDPLA003
Door hinge for NSYPLM32	Door accessories				●								NSYAEDHPLM32
Door hinge for NSYPLM3025	Door accessories				●								NSYAEDHPLM3025
Door hinge for NSYPLM43 to 86	Door accessories				●								NSYAEDHPLM
Door hinge for NSYPLM108	Door accessories				●								NSYAEDHPLM108
Set of 2 hinges for S3X	Door accessories	●											NSYHS3X
Set of 3 hinges for SFX	Door accessories		●										NSYHSMX
Set of 3 hinges stainless 316L SMX	Door accessories			●									NSYHSMXH
Left door 304L 1000x1000 mm for S3X	Doors	●											NSYDS3X1010L
Left door 316L 1000x1000 mm for S3X	Doors	●											NSYDS3X1010LH
Right door 304L 1000x1000 mm S3X	Doors	●											NSYDS3X1010R
Right door 316L 1000x1000 mm S3X	Doors	●											NSYDS3X1010RH
Plain door 304L 1000x800 mm for S3X	Doors	●											NSYDS3X108
Plain door 316L 1000x800 mm for S3X	Doors	●											NSYDS3X108H
Left door 304L 1200x1000 mm for S3X	Doors	●											NSYDS3X1210L
Left door 316L 1200x1000 mm for S3X	Doors	●											NSYDS3X1210LH
Right door 304L 1200x1000 mm S3X	Doors	●											NSYDS3X1210R
Right door 316L 1200x1000 mm S3X	Doors	●											NSYDS3X1210RH
Plain door 304L 1200x800 mm S3X	Doors	●											NSYDS3X128
Plain door 316L 1200x800 mm S3X	Doors	●											NSYDS3X128H
Plain door 304L 300x200 mm for S3X	Doors	●											NSYDS3X32
Plain door 304L 300x250 mm for S3X	Doors	●											NSYDS3X325
Plain door 316L 300x250 mm for S3X	Doors	●											NSYDS3X325H
Plain door 316L300x200 mm for S3X	Doors	●											NSYDS3X32H
Plain door 304L 300x300 mm for S3X	Doors	●											NSYDS3X33
Plain door 316L 300x300 mm for S3X	Doors	●											NSYDS3X33H
Plain door 304L 400x300 mm for S3X	Doors	●											NSYDS3X43
Plain door 316L 400x300 mm for S3X	Doors	●											NSYDS3X43H
Plain door 304L 400x400 mm for S3X	Doors	●											NSYDS3X44
Plain door 316L 400x400 mm for S3X	Doors	●											NSYDS3X44H
Plain door 304L 400x600 mm for S3X	Doors	●											NSYDS3X46
Plain door 316L 400x600 mm for S3X	Doors	●											NSYDS3X46H
Plain door 304L 500x400 mm for S3X	Doors	●											NSYDS3X54
Plain door 316L 500x400 mm for S3X	Doors	●											NSYDS3X54H
Plain door 304L 600x400 mm for S3X	Doors	●											NSYDS3X64
Plain door 316L 600x400 mm for S3X	Doors	●											NSYDS3X64H
Plain door 304L 600x600 mm for S3X	Doors	●											NSYDS3X66
Plain door 316L 600x600 mm for S3X	Doors	●											NSYDS3X66H
Plain door 304L 700x500 mm for S3X	Doors	●											NSYDS3X75
Plain door 316L 700x500 mm for S3X	Doors	●											NSYDS3X75H
Plain door 304L 800x600 mm for S3X	Doors	●											NSYDS3X86
Plain door 316L 800x600 mm for S3X	Doors	●											NSYDS3X86H
Plain door 304L 800x800 mm for S3X	Doors	●											NSYDS3X88
Plain door 316L 800x800 mm for S3X	Doors	●											NSYDS3X88H
Left door 304L 1400x1000 mm SMX	Doors			●									NSYDSFX1410L
Right door 304L 1400x1000 mm SMX	Doors			●									NSYDSFX1410R
Door 304L 1600x800 mm SMX	Doors			●									NSYDSFX168
Door 304L 1800x600 mm SMX SFX	Doors		●	●									NSYDSFX186
Left door 1800x1200 mm SMX SFX	Doors		●	●									NSYDSFX1812L
Left door 316L 1800x1200 mm SMX	Doors			●									NSYDSFX1812LH
Right door 1800x1200 mm SMX SFX	Doors		●	●									NSYDSFX1812R

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Right door 316L 1800x1200 mm SMX	Doors			●									NSYDSFX1812RH
Door 304L 1800x800 mm SMX SFX	Doors		●	●									NSYDSFX188
Door 316L 1800x800 mm SMX	Doors			●									NSYDSFX188H
Left door 304L 1800x1600 mm SMX	Doors			●									NSYDSFX1816L
Left door 316L 1800x1600 mm SMX	Doors			●									NSYDSFX1816LH
Right door 304L 1800x1600 mm SMX	Doors			●									NSYDSFX1816R
Right door 316L 1800x1600 mm SMX	Doors			●									NSYDSFX1816RH
Left door 2000x1000 mm SMX SFX	Doors		●	●									NSYDSFX2010L
Left door 316L 2000x1000 mm SMX	Doors			●									NSYDSFX2010LH
Right door 2000x1000 mm SMX SFX	Doors		●	●									NSYDSFX2010R
Right door 316L 2000x1000 mm SMX	Doors			●									NSYDSFX2010RH
Door 1800x800 mm SMX SFX	Doors		●	●									NSYDSFX206
Left door 2000x1200 mm SMX SFX	Doors		●	●									NSYDSFX2012L
Left door 316L 2000x1200 mm SMX	Doors			●									NSYDSFX2012LH
Right door 2000x1200 mm SMX SFX	Doors		●	●									NSYDSFX2012R
Right door 316L 2000x1200 mm SMX	Doors			●									NSYDSFX2012RH
Door 2000x800 mm SMX SFX	Doors		●	●									NSYDSFX208
Left door 2000x1600 mm SMX SFX	Doors		●	●									NSYDSFX2016L
Left door 316L 2000x1600 mm SMX	Doors			●									NSYDSFX2016LH
Right door 2000x1600 mm SMX SFX	Doors		●	●									NSYDSFX2016R
Right door 316L 2000x1600 mm SMX	Doors			●									NSYDSFX2016RH
Door without locking for NSYPLM32	Doors				●								NSYDPLM32
Door without locking for NSYPLM3025	Doors				●								NSYDPLM3025
Transp. door without locking for NSYPLM32T	Doors				●								NSYDPLM32T
Glazed door without locking for NSYPLM3025T	Doors				●								NSYDPLM3025T
Plain door 300x200 S3D	Doors											●	NSYDS3D32
Plain door 300x300 S3D	Doors											●	NSYDS3D33
Plain door 400x300 S3D	Doors											●	NSYDS3D43
Plain door 400x400 S3D	Doors											●	NSYDS3D44
Plain door 500x400 S3D	Doors											●	NSYDS3D54
Plain door 600x400 S3D	Doors											●	NSYDS3D64
Plain door 600x600 S3D	Doors											●	NSYDS3D66
Plain door 700x500 S3D	Doors											●	NSYDS3D75
Plain door 800x600 S3D	Doors											●	NSYDS3D86
Plain door 1000x800 S3D	Doors											●	NSYDS3D108
Plain door H400xW300 S3HF	Doors										●		NSYDS3HF43
Plain door H400xW600 S3HF	Doors										●		NSYDS3HF46
Plain door H500xW400 S3HF	Doors										●		NSYDS3HF54
Plain door H600xW400 S3HF	Doors										●		NSYDS3HF64
Plain door H600xW600 S3HF	Doors										●		NSYDS3HF66
Plain door H700xW500 S3HF	Doors										●		NSYDS3HF75
Plain door H800xW600 S3HF	Doors										●		NSYDS3HF86
Plain door H1000xW800 S3HF	Doors										●		NSYDS3HF108
Plain door H1200xW800 S3HF	Doors										●		NSYDS3HF128
Door 500x500 PLA	Doors					●							NSYDPLA55
Door 500x750 PLA	Doors					●							NSYDPLA57
Door 750x500 PLA	Doors					●							NSYDPLA75
Door 750x750 PLA	Doors					●							NSYDPLA77
Door 1000x500 PLA	Doors					●							NSYDPLA105
Door 1000x750 PLA	Doors					●							NSYDPLA107
Door 1250x500 PLA	Doors					●							NSYDPLA125
Door 1250x750 PLA	Doors					●							NSYDPLA127
Door 1500x500 PLA	Doors					●							NSYDPLA155
Door 1500x750 PLA	Doors					●							NSYDPLA157
Door 500x500 with handle PLA	Doors					●							NSYDPLA55H
Door 500x750 with handle PLA	Doors					●							NSYDPLA57H
Door 750x500 with handle PLA	Doors					●							NSYDPLA75H
Door 750x750 with handle PLA	Doors					●							NSYDPLA77H
Door 1000x500 with handle PLA	Doors					●							NSYDPLA105H
Door 1000x750 with handle PLA	Doors					●							NSYDPLA107H
Door 1250x500 with handle PLA	Doors					●							NSYDPLA125H
Door 1250x750 with handle PLA	Doors					●							NSYDPLA127H
Door 1500x500 with handle PLA	Doors					●							NSYDPLA155H
Door 1500x750 with handle PLA	Doors					●							NSYDPLA157H
Plain door H200xW200 CRN	Doors						●						NSYDCRN22
Plain door H200xW300 CRN	Doors						●						NSYDCRN23
Plain door H250xW200 CRN	Doors						●						NSYDCRN2520
Plain door H300xW250 CRN	Doors						●						NSYDCRN3025
Plain door H300xW300 CRN	Doors						●						NSYDCRN33
Plain door H300xW400 CRN	Doors						●						NSYDCRN34
Plain door H300xW450 CRN	Doors						●						NSYDCRN3045
Plain door H400xW300 CRN	Doors						●						NSYDCRN43
Plain door H400xW400 CRN	Doors						●						NSYDCRN44
Plain door H400xW600 CRN	Doors						●						NSYDCRN46
Plain door H500xW500 CRN	Doors						●						NSYDCRN55
Plain door H600xW600 CRN	Doors						●						NSYDCRN66
Plain door H600xW800 CRN	Doors						●						NSYDCRN68
Plain door H800xW600 CRN	Doors						●						NSYDCRN86
Transp. door 304L 1000x800 mm S3X	Doors	●											NSYDS3X108T
Transp. door 304L 400x300 mm S3X	Doors	●											NSYDS3X43T
Transp. door 304L 500x400 mm S3X	Doors	●											NSYDS3X54T
Transp. door 304L 600x400 mm S3X	Doors	●											NSYDS3X64T
Transp. door 304L 700x500 mm S3X	Doors	●											NSYDS3X75T
Transp. door 304L 400x304 mm S3X	Doors	●											NSYDS3X86T
Frontal door 600 mm for SDX	Doors								●				NSYDSDX6
Frontal door 800 mm for SDX	Doors								●				NSYDSDX8
Frontal right door 1000 mm for SDX	Doors								●				NSYDSDX10R
Frontal right door 1200 mm for SDX	Doors								●				NSYDSDX12R
Frontal lest door 1000 mm for SDX	Doors								●				NSYDSDX10L

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Frontal left door 1200 mm for SDX	Doors								•				NSYDSDX12L
Desk lid 1000 mm for SDX	Doors								•				NSYDLSDX10
Desk lid 1200 mm for SDX	Doors								•				NSYDLSDX12
Desk lid 600 mm for SDX	Doors								•				NSYDLSDX6
Desk lid 800 mm for SDX	Doors								•				NSYDLSDX8
Door without locking for NSYPLM43	Doors				•								NSYDPLM43
Door without locking for NSYPLM54	Doors				•								NSYDPLM54
Door without locking for NSYPLM64	Doors				•								NSYDPLM64
Door without locking for NSYPLM75	Doors				•								NSYDPLM75
Door without locking for NSYPLM86	Doors				•								NSYDPLM86
Door without locking for NSYPLM108	Doors				•								NSYDPLM108
Glazed door without locking for NSYPLM43T	Doors				•								NSYDPLM43T
Glazed door without locking for NSYPLM54T	Doors				•								NSYDPLM54T
Glazed door without locking for NSYPLM64T	Doors				•								NSYDPLM64T
Glazed door without locking for NSYPLM75T	Doors				•								NSYDPLM75T
Glazed door without locking for NSYPLM86T	Doors				•								NSYDPLM86T
Glazed door without locking for NSYPLM108T	Doors				•								NSYDPLM108T
Desk lid W600 mm SD	Doors							•					NSYDLSD6
Desk lid W800 mm SD	Doors							•					NSYDLSD8
Desk lid W1000 mm SD	Doors							•					NSYDLSD10
Desk lid W1200 mm SD	Doors							•					NSYDLSD12
Desk lid for w/console W800 mm SD	Doors							•					NSYDLSDF8
Desk lid for w/console W1000 mm SD	Doors							•					NSYDLSDF10
Desk lid for w/console W1200 mm SD	Doors							•					NSYDLSDF12
Desk lid for w/console W1600 mm SD	Doors							•					NSYDLSDF16
Folding console cover W800 mm SD	Doors							•					NSYCCSDF8
Folding console cover W1000 mm SD	Doors							•					NSYCCSDF10
Folding console cover W1200 mm SD	Doors							•					NSYCCSDF12
Folding console cover W1600 mm SD	Doors							•					NSYCCSDF16
Cover W400 mm for modular console	Doors							•					NSYMCCSD4
Cover W600 mm for modular console	Doors							•					NSYMCCSD6
Frontal door W600 mm SD	Doors							•					NSYDSD6
Frontal door W800 mm SD	Doors							•					NSYDSD8
Frontal right door W1000 mm SD	Doors							•					NSYDSD10R
Frontal left door W1000 mm SD	Doors							•					NSYDSD10L
Frontal right door W1200 mm SD	Doors							•					NSYDSD12R
Frontal left door W1200 mm SD	Doors							•					NSYDSD12L
Frontal door w/console W800 mm SD	Doors							•					NSYDSDF8
Front. R door w/console W1000 mm SD	Doors							•					NSYDSDF10R
Front. L door w/console W1000 mm SD	Doors							•					NSYDSDF10L
Front. R door w/console W1200 mm SD	Doors							•					NSYDSDF12R
Front. L door w/console W1200 mm SD	Doors							•					NSYDSDF12L
Front. R door w/console W1600 mm SD	Doors							•					NSYDSDF16R
Front. L door w/console W1600 mm SD	Doors							•					NSYDSDF16L
Set of 500 earthing labels	Earthing accessories						•				•	•	NSYSWMEL
Acc. bag for 1 door PLA	Fixing hardware					•							NSYASPLA001
Acc. bag for 2 door h 500-750 PLA	Fixing hardware					•							NSYASPLA002
Acc. bag for 2 door h 1000-1250-1500 PLA	Fixing hardware					•							NSYASPLA003
Acc. bag NSYPLM32	Fixing hardware				•								NSYASPLM32
Acc. bag NSYPLM43 to 86	Fixing hardware				•								NSYASPLM
100 screws cable gland plate S3D	Fixing hardware											•	NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware											•	NSYS3DCGPSTDSB
Standard handle in RAL 7011 OLN/CMO/S6000/S18500	Locking accessories							•					NSYSDH
Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories							•					NSYEMPOLN
Lock w/DB 3 mm for frontal doors SD	Locking accessories							•					NSYFDLSD
Lock w/DB 3 mm desk lids & covers SD	Locking accessories							•					NSYDLLSDF
Flat escutcheon with DB 5 mm SD	Locking accessories							•					NSYSDFLOCKDB5
Set of 10 linkage guides S3D	Locking accessories											•	NSYS3DLG
Standard Locking system S3HF	Locking accessories										•		NSYAEDLS3HFDB3
Standard key DB3 S3D	Locking accessories											•	NSYAEDLS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories											•	NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories											•	NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories											•	NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories											•	NSYBTAS3D100
Locking system for SDX	Locking accessories								•				NSYLSSDX
Locking system 1000 mm for S3X	Locking accessories	•											NSYLSS3X10
Locking system 1200 mm for S3X	Locking accessories	•											NSYLSS3X12
Locking and rods h 500 for PLA	Locking accessories					•							NSYVPLA5
Locking and rods h 750 for PLA	Locking accessories					•							NSYVPLA7

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Locking and rods h 1000 for PLA	Locking accessories					•							NSYVPLA10
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