

Converters

IndraDrive C HCS03





Documentation

- Operating Instructions
- Project Planning Manual
- Firmware

Technical data

		HCS03.1E-W0070	HCS03.1E-W0100	HCS03.1E-W0150	HCS03.1E-W0210
Power					
Continuous current	[A]	45	73	95	145
Maximum current	[A]	70	100	150	210
Motor nominal power typ.	[kW]	22	37	45	75
Mains voltage	3 AC	400...500 V			
Tolerances	[%]	+10 -15 %			
Frequency		50...60 Hz			
Frequency tolerances	[Hz]	± 2 Hz			
Continuous input mains current	[A]	50	80	106	146
Dependence of output on mains voltage	$U_{LN} < 400 \text{ V}$	1 % power reduction per 4 V			
	$U_{LN} > 400 \text{ V}$	1 % power gain per 5 V			
Mains contactor		external			
DC bus					
Continuous output with choke	[kW]	25	43	56	85
Max. output with choke	[kW]	40	59	89	124
Continuous output without choke	[kW]	13	24	34	47
Max. output without choke	[kW]	20	33	54	68
Switching frequency/max. output frequency	4 kHz	0...400 Hz			
	8 kHz	0...800 Hz			
	12 kHz	0...1200 Hz			
	16 kHz	0...1600 Hz			
Output voltage	[V]	3 x AC 0...480 V			
DC bus capacity	[mF]	0.94	1.44	1.88	4.7
DC bus voltage	[V] DC	Main voltage x 1,41			
Converter/inverter combination		●			
Brake chopper / resistor					
Brake resistor		external			
Brake chopper		Internal			
Braking Energy Consumption	[kWs]	42	63	97	137

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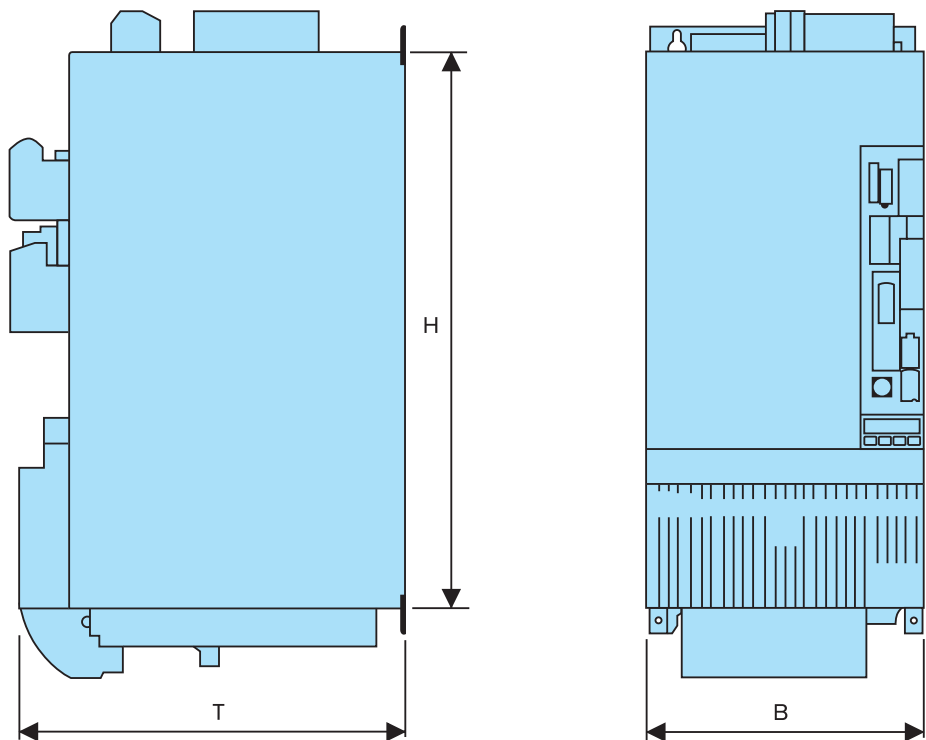
Continuous braking power	[kW]	13.2	18.9	25.2	42.6
Control Voltage					
Control Voltage	external	24V ± 20%			
	Internal	24V			
Power consumption without control unit and motor brake	[W]	22.5	25		30
Protection					
Category Total	IP20 (IEC529)				
Degree of contamination	2 (EN50178)				
EMC	EN61800-3				
Cooling system	forced ventilated				
Standards					
Certification	EN61800-5-1UL 508 C-				
	Canadian National Standard(s) C22.2 No. 14-05--				
Weight					
Weight	[kg]	13	20	20	38
Ambient conditions					
Ambient temp. operation	[°C]	0 ... 40 °C			
	Derating [°C]	0 ... 55 °C			
Ambient temp. storage	[°C]	-25...55 °C			
Relative humidity operation	[%]	5...95 %			
Relative humidity storage	[%]	5...95 %			
Installation height	[m]	1000			
	Derating [m]	4000			

All data for nominal rating at 3 AC 400 V mains voltage and 4 kHz switching frequency

Dimensions

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Dimensions					
Dimensions (H x W x D)		490 x 125 x 262 mm	490 x 225 x 262 mm	490 x 225 x 262 mm	490 x 350 x 262 mm
Height H	[mm]	490	490	490	490
Width W	[mm]	125	225	225	350
Depth D	[mm]	262	262	262	262

Components

Control units

Description	Page	Details
Control units	Single-axis	BASIC ANALOG
Control units	Single-axis	BASIC OPEN LOOP
Control units	Single-axis	BASIC PROFIBUS
Control units	Single-axis	BASIC SERCOS
Control units	Single-axis	BASIC UNIVERSAL
Control units	Single-axis	ADVANCED

Accessories

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Auxiliary components

Description		
Accessories	Brake units	HLB
Accessories	Brake resistor	HLR
Accessories	Motor filters	HMF
Accessories	Mains chokes	HNL
Accessories	Main filters	HNF
Accessories	Main filters with integrated mains choke	HNK
Accessories	Capacity modules	HLC

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