

Converters
IndraDrive C
HCS02





Documentation

- Application Manual
- Project Planning Manual
- Firmware

Technical data

		HCS02.1E-W0012	HCS02.1E-W0028	HCS02.1E-W0054	HCS02.1E-W0070
Power					
Continuous current	[A]	4.5	12	20.6	28
Maximum current	[A]	11.5	28.3	54	70.8
Motor nominal power typ.	[kW]	1.5	4	7.5	11
Mains voltage	1 AC	200...250 V			
	3 AC	200...500 V			
Tolerances	[%]	± 10 %			
Frequency		50...60 Hz			
Frequency tolerances	[Hz]	± 2 Hz			
Continuous input mains current	[A]	6	13	20	30
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]	2.1	5.1	10	14
Max. output with choke	[kW]	5	10	16	19
Continuous output without choke	[kW]	2.1	5.1	7	9
Max. output without choke	[kW]	5	8	12	14
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...main voltage V			
DC bus capacity	[mF]	0.135	0.27	0.54	0.675
DC bus voltage	[V] DC	Main voltage x 1,41			
Converter/inverter combination		●			
Brake chopper / resistor					
Brake resistor		Internal		internal/external	
Brake chopper		Internal			

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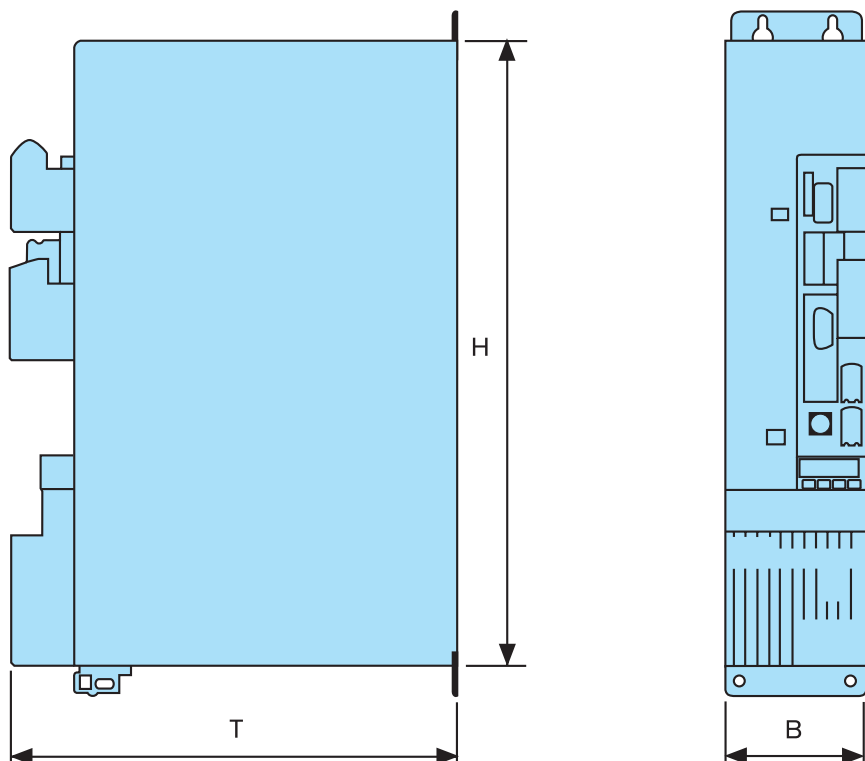
Braking Energy Consumption	[kWs]	1	5	9	13
Continuous braking power	[kW]	0.05	0.15	0.35	0.5
Maximum braking power	[kW]	4	10	18	25
Control Voltage					
Control Voltage	external	24V ± 20%			
	Internal	24V ± 10%			
Power consumption without control unit and motor brake	[W]	12	14	23	
Protection					
Category 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]	2.9	3.8	6.7	6.8
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)		290 x 65 x 206 mm	352 x 65 x 206 mm	352 x 105 x 206 mm	352 x 105 x 206 mm
Height H	[mm]	290	352	352	352
Width W	[mm]	65	65	105	105
Depth D	[mm]	206	206	206	206

Components

Control units

Description	Page	Details
Control units	Single-axis	ADVANCED
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

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	Capacity modules	HLC

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