

Converters

IndraDrive C HCS03



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
Performance data					
Continuous current	[A]	45	73	95	145
Maximum current	[A]	70	100	150	210
Motor rated capacity, typical	[kW]	22	37	45	75
Mains voltage	3 AC	400...500 V			
Tolerance	[%]	+10 -15 %			
Frequency		50...60 Hz			
Frequency tolerance	[Hz]	± 2 Hz			
Continuous current mains input	[A]	50	80	106	146
Power dependency from the supply 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			
Intermediate circuit					
Continuous power with choke	[kW]	25	43	56	85
Max. power with choke	[kW]	40	59	89	124
Continuous power without choke	[kW]	13	24	34	47
Max. power 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			
Intermediate circuit capacity	[mF]	0.94	1.44	1.88	4.7
DC bus voltage	[V] DC	Mains connection voltage x 1.41			

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Ability to combine converter/inverter		●			
Brake chopper / resistor					
Braking resistance		External			
Brake chopper		Internal			
Braking energy consumption	[kWs]	42	63	97	137
Continuous braking power	[kW]	13.2	18.9	25.2	42.6
Control voltage					
Control voltage	Internal	24 V			
Power consumption without control unit and motor brake	[W]	22.5	25		30
Protection					
EMC		EN 61800-3 ↔			
Cooling type		Air cooling			
Norms and Standards					
Certification		EN 61800-5-1 ↔ UL 508 C ↔			
		Canadian National Standard(s) C22.2 No. 14-05	Canadian National Standard(s) C22.2 No. 14-05	Canadian National Standard(s) C22.2 No. 14-05	Canadian National Standard(s) C22.2 No. 14-05
Weight					
Weight	[kg]	13	20		38

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

Dimensions

		HCS03.1E-W0070	HCS03.1E-W0100	HCS03.1E-W0150	HCS03.1E-W0210
Dimensions					
Height H	[mm]	440	440	440	440
Width B	[mm]	125	225	225	350
Depth T	[mm]	315	315	315	315

Components**Control units**

Description	Page	Details
Servo drives	Firmware 1G	IndraDrive (MPH, MPB, MPD, MPC)
Servo drives	Firmware 2G	IndraDrive (MPE, MPB/MPM, MPC)
Servo drives	Control units 1G	IndraDrive (BASIC, ADVANCED)

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Description	Page	Details
Servo drives	Control units 2G	IndraDrive (ECONOMY, BASIC, ADVANCED)

Accessories**Auxiliary components**

Description		
Accessories	Brake units	HLB01
Accessories	Brake resistors	HLR01
Accessories	Motor filters	HMF01
Accessories	Mains chokes	HNL01/02
Accessories	Mains filter	HNF01
Accessories	Mains filters with integrated mains choke	HNK01
Accessories	Capacity module	HLC01

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It must be remembered that our products are subject to a natural process of wear and aging.