

Converters
IndraDrive C
HCS02



Converters

IndraDrive C ■ HCS02

- Continuous output from 1.5 kW to 11 kW
- Overload capacity 2.5x
- Maximum current from 12 A to 70 A
- Can be connected to inverters for cost-effective solutions
- Direct mains connection from 200 V to 500 V

Documentation

- Application description
- Project planning manual
- Firmware

The HCS02 converter from the IndraDrive C series integrates inverter and power supply in one unit. The compact construction contains additional mains connection components, making it particularly suitable for single-axis applications.

Technical data

		HCS02.1E-W0012	HCS02.1E-W0028	HCS02.1E-W0054	HCS02.1E-W0070
Performance data					
Continuous current	[A]	4.5	12	20.6	28
Maximum current	[A]	11.5	28.3	54	70.8
Motor rated capacity, typical	[kW]	1.5	4	7.5	11
Mains voltage	1 AC	200...250 V			
	3 AC	200...500 V			
Tolerance	[%]	± 10 %			
Frequency		50...60 Hz			
Frequency tolerance	[Hz]	± 2 Hz			
Continuous current mains input	[A]	6	13	20	30
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]	2.1	5.1	10	14
Max. power with choke	[kW]	5	10	16	19
Continuous power without choke	[kW]	2.1	5.1	7	9
Max. power without choke	[kW]	5	8	12	14

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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 V to mains connection voltage			
Intermediate circuit capacity	[mF]	0.135	0.27	0.54	0.675
DC bus voltage	[V] DC	Mains connection voltage x 1.41			
Ability to combine converter/inverter		●			
Brake chopper / resistor					
Braking resistance		Internal		Internal/external	
Brake chopper		Internal			
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					
Power consumption without control unit and motor brake	[W]	12	14	23	
Protection					
Overall protection category		IP20			
EMC		EN 61800-3 [↔]			
Cooling type		Air cooling			
Norms and Standards					
Certification		EN 61800-3 [↔] EN 61800-5-1 [↔] UL 508 C [↔] C22.2 No. 14-05			
Weight					
Weight	[kg]	2.9	3.8	6.7	6.8

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

Dimensions

		HCS02.1E-W0012	HCS02.1E-W0028	HCS02.1E-W0054	HCS02.1E-W0070
Dimensions					
Height H	[mm]	290	352	352	352
Width B	[mm]	65	65	105	105
Depth T	[mm]	252	252	252	252

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IndraDrive C ■ HCS02**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)
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	Capacity module	HLC01

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