

Servo Drives
Compact Drives
IndraDrive Cs



Compact Drives ■ I



Ind Controls Highly versatile, extremely compact drives

- 100 W 3.5 kW
- Ethernet-based communications, multi-protocol support
- Innovative multi-encode Documentation
- Extremely compact design

The IndraDrive Cs offers new communications hardware with multi-protocol support which addresses today's increased need for open, seamless design.

The drives support SERCOS III, PROFINET IO, EtherNet/IP and EtherCat. Connectivity via these Ethernet-based interfaces is provided by software-configurable communications hardware. IndraDrive Cs can also be supplied with a conventional communications interface, for example PROFIBUS. The Rexroth solution gives users maximum communications flexibility with minimum engineering effort.

These impressive features plus the new multi-encoder interface which supports all standard encoder types plus an additional option slot make the IndraDrive Cs the ideal choice for highly specialized drive applications. IEC-compliant motion logic and industry-specific technology function support a very wide range of applications.

Technical data

		HCS01.1E-W0003	HCS01.1E-W0006	HCS01.1E-W0009	HCS01.1E-W0013		
Power							
Continous cur- rent	[A]	1.39	2.34	3	4.4		
Maximum cur- rent	[A]	3.3	6	9	13		
Input voltage	[V]	3 x AC 110230 V					
Tolerances	[%]	± 10 %					
Frequency			50	60 Hz			
Frequency toler- ances	[Hz]	± 2 Hz					
Continous input mains current	[A]	0.6	1.2	2.3	4.5		
Dependence of output on mains voltage	U _{LN} < 400 V	1 % power reduction per 4 V					
DC bus							
Continuous output without choke	[kW]	0.15	0.25	0.46	0.8		
Max. output without choke	[kW]	0.45	0.75	1.38	2.4		
Switching fre-	4 kHz	0400 Hz					
quency/max. output fre- quency	8 kHz	0800 Hz					
	12 kHz	01200 Hz					
	16 kHz	01600 Hz					
Output voltage	[V]	3 x AC 0230 V					
DC bus capacity	[mF]	0.	44	0.78			
DC bus voltage	[V] DC	Main voltage x 1,41					
Brake chopper / r	esistor						
Braking Energy Consumption	[kWs]	0.4					
Continuous braking power	[kW]	0.02 0.03					

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B. B	FL-AAD	100							
Maximum brak- ing power	[kW]	1.68							
Control Voltage									
Control Voltage	external	24V ± 5 %							
Power consumption without control unit and motor brake	[W]	2	27	28					
Protection									
Category Total			IP	20					
Degree of contam	ination			2					
Cooling system			not ventilated		air cooling				
Weight									
Weight	[kg]	0.72	0.72						
		HCS01.1E-W0005	HCS01.1E-W0008	HCS01.1E-W0018	HCS01.1E-W0028				
Power									
Continous cur-	[A]	2	2.7	7.6	11.52				
Maximum cur- rent	[A]	5	8	18	28				
Input voltage	[V]	3 x AC 200500 V							
Tolerances	[%]	± 10 %							
Frequency		5060 Hz							
Frequency toler- ances	[Hz]	± 2 Hz							
Continous input mains current	[A]	1.5 2.5 5		5	10				
Dependence of output on mains voltage DC bus	U _{LN} < 400 V	1 % power reduction per 4 V							
Continuous out-	[kW]		0		4				
put with choke	[KVV]	U 4							
Max. output with choke	[kW]	0 9.7							
Continuous output without choke	[kW]	0.46	0.86	1.7	2.6				
Max. output without choke	[kW]	1.38	2.58	5.1	6.2				
Switching fre-	4 kHz	0400 Hz							
quency/max. output fre-	8 kHz	0800 Hz							
quency	12 kHz	01200 Hz							
	16 kHz	01600 Hz							
Output voltage	[V]	3 x AC 0500 V							
DC bus capacity	[mF]	0.11 0.33							
DC bus voltage	[V] DC	Main voltage x 1,41							
Brake chopper / r	,								
Braking Energy Consumption	[kWs]	0.8		2.25	3				
Continuous braking power	[kW]	0.02	0.03	0.05	0.15				

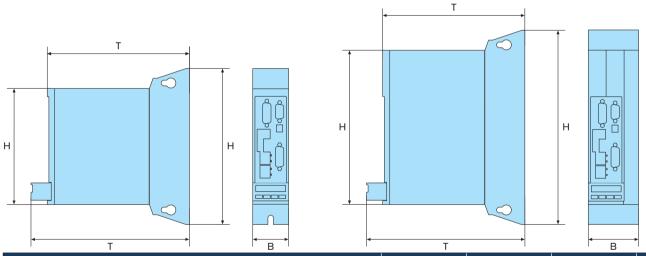
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Maximum brak- ing power	[kW]	4		7.2	10.6			
Control Voltage	Control Voltage							
Control Voltage	external	24V ± 5 %						
Power consumption without control unit and motor brake	[W]	27	28	34				
Protection								
Category Total		IP20						
Degree of contamination		2						
Cooling system		air cooling						
Weight								
Weight	[kg]	0.72	0.72	1.7	1.7			

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

Dimensions



		HCS01.1E- W0003	HCS01.1E- W0006	HCS01.1E- W0009	HCS01.1E- W0013		
Dimensions							
Dimensions (H x W x D)		215 x 50 x 196					
		mm	mm	mm	mm		
Height H	[mm]	215	215	215	215		
Width W	[mm]	50	50	50	50		
Depth D	[mm]	196	196	196	196		

		HCS01.1E- W0005	HCS01.1E- W0008	HCS01.1E- W0018	HCS01.1E- W0028	
Dimensions						
Dimensions (H x W x D)		215 x 50 x 196	215 x 50 x 196	268 x 70 x 196	268 x 70 x 196	
		mm	mm	mm	mm	
Height H	[mm]	215	215	268	268	
Width W	[mm]	50	50	70	70	
Depth D	[mm]	196	196	196	196	

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