Pneumatics

Service

Rexroth Bosch Group

Servo drives Compact drives IndraDrive Cs



Servo drives

Compact drives ■ IndraDrive Cs

Documentation



Highly versatile, extremely compact drives

- Power range 100 W to 9 kW
- · Multi-protocol-enabled, Ethernet-based communication
- · Innovative multi-encoder interface
- · Optional integrated safety technology

With the newly developed multi-protocol-enabled communication hardware, IndraDrive Cs fulfills the increased demands for openness and consistency.

SERCOS III, PROFINET IO, EtherNet/IP and EtherCat are available. These Ethernet-based interfaces are connected via a universal communication hardware, which can be configured easily using software. Alternatively, IndraDrive Cs can also be equipped with a conventional communication interface such as PROFIBUS. With this solution, Rexroth is offering users a high level of flexibility in communication with minimal engineering effort.

In conjunction with the new multi-encoder interface for evaluating all common encoder types and an additional optional slot, very special drive tasks can also be carried out safely. IEC-compliant motion logic and industry-specific technology modules make IndraDrive Cs the perfect choice for a wide range of uses.

Technical data

		HCS01.1E-W0003- A-02	HCS01.1E-W0006- A-02	HCS01.1E-W0009- A-02	HCS01.1E-W0013- A-02	HCS01.1E-W0018- A-02				
Performance data	1									
Continuous cur- rent	[A]	1.4	2.4	3	4.4	7				
Maximum current	[A]	3.3	6	9	13	18				
Mains connection	1 AC	1 x AC 110230 V ¹⁾								
voltage	3 AC	3 x AC 110230 V								
Tolerance	[%]		± 10 %							
Frequency	I			5060 Hz						
Frequency toler- ance	[Hz]		± 2 Hz							
Continuous cur- rent mains input	[A]	0.6	0.6 1.2 2.3		4.5	9.6				
Power depen- dency from the supply voltage	U _{LN} < 400 V	1% power reduction per 4 V								
	U _{LN} > 400 V	No power increase								
Intermediate circu	uit									
Continuous power without choke	[kW]	0.15	0.25	0.46	0.8	1.8				
Max. power with- out choke	[kW]	0.45	0.75	1.38	2.4	4.8				

Switching fre-	4 kHz	0 400 Hz							
quency/max. out- put frequency	8 kHz	0800 Hz							
	12 kHz	01200 Hz							
	16 kHz	01600 Hz							
Output voltage	[V]		3 x AC 0230 V						
Intermediate cir- cuit capacity	[mF]	0.44	0.78		1.2				
Intermediate cir- cuit voltage	[V] DC	Mai	Mains connection voltage x 1.41						
Brake chopper / r	esistor								
Braking energy consumption	[kWs]	0	.4	3					
Continuous brak- ing power	[kW]	0.02	0.0	0.03					
Maximum braking power	[kW]	1.68	25.8		2.24				
Control voltage									
Control voltage	External		24V ± 5 %						
Power consump- tion without con- trol unit and motor brake	[W]	27	28		34				
Protection									
Protection categor	y - overall		IP20						
Degree of pollutior	1		2						
Cooling type		Not ventilated Air co			ooling				
Weight									
Mass	[kg]	0.	72		1.7				

		HCS01.1E-W0005- A-03	HCS01.1E-W0008- A-03	HCS01.1E-W0018- A-03	HCS01.1E-W0028- A-03	HCS01.1E-W0054- A-03				
Performance data	1			·		·				
Continuous cur- rent	[A]	2	2.7	7.6	11.52	21				
Maximum current	[A]	5	8	18	28	54				
Mains connection voltage	3 AC		3 x AC 200500 V							
Tolerance	[%]		± 10 %							
Frequency				5060 Hz						
Frequency toler- ance	[Hz]		± 2 Hz							
Continuous cur- rent mains input	[A]	1.5	2.5	5	10	28				
Power depen- dency from the supply voltage	U _{LN} < 400 V	1% power reduction per 4 V								
	U _{LN} > 400 V	No power increase								
Intermediate circu	uit									
Continuous power with choke	[kW]		0		4	14				
Max. power with choke	[kW]		0		9.7	19				

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Continuous power without choke	[kW]	0.46	0.86	1.7	2.6	9				
Max. power with- out choke	[kW]	1.38	2.58	5.1	6.2	14				
Switching fre- quency/max. out- put frequency	4 kHz	0 400 Hz								
	8 kHz	0800 Hz								
	12 kHz	01200 Hz								
	16 kHz	01600 Hz								
Output voltage	[V]		3 x AC 0500 V							
Intermediate cir- cuit capacity	[mF]	0.11		0.3	0.39					
Intermediate cir- cuit voltage	[V] DC	Mains connection voltage x 1.41								
Brake chopper / re	esistor									
Braking energy consumption	[kWs]	0.8		2.25	3	13				
Continuous brak- ing power	[kW]	0.02	0.03	0.05	0.15	0.5				
Maximum braking power	[kW]	4		7.2	10.6	25.8				
Control voltage										
Control voltage	External			24V ± 5 %						
Power consump- tion without con- trol unit and motor brake	[W]	27 28 34		4	45					
Protection										
Protection category - overall		IP20								
Degree of pollution		2								
Cooling type		Air cooling								
Weight										
Mass	[kg]	0.	72	1.	7	4.22				

All data for rated operation with 3 AC 400 V mains voltage and 4 kHz switching frequency ¹) Single-phase operation possible, derating for HCS01.1E-W0013-A-02 and -W0018-A-02

Dimensions

Dimensions						
Height H	[mm]	215	215	215	215	268
Width B	[mm]	50	50	50	50	70
Length T	[mm]	196	196	196	196	196
Dimensions						·
Height H	[mm]	215	215	268	268	268
Width B	[mm]	50	50	70	70	130

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Length T	[mm]	196	196	196	196	196



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> The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification.

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

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