### www.brberg.ru brberg@ya.ru Тел. (499) 703-31-61

Electric Drives and Controls

Hydraulics

Linear Motion and Assembly Technologies

Pneumatics

Service

Rexroth Bosch Group

Servo drives Compact Drives IndraDrive Cs



Bosch Rexroth AG | Electric Drives and Controls

#### Servo drives Compact Drives IndraDrive Cs



Highly versatile, extremely compact drives

- 100 W 3.5 kW
- · Ethernet-based communications, multi-protocol support
- · Innovative multi-encoder interface
- · Extremely compact design

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

SERCOS III, PROFINET IO, EtherNet/IP and EtherCat are available. Connectivity via these Ethernet-based interfaces is provided by universal, software-configurable communications hardware. Alternatively, IndraDrive Cs can also be equipped with a conventional communications interface such as 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 modules predestine the IndraDrive Cs for a very wide range of applications.

Tec	hnica	l data
100	mou	1 010100

		HCS01.1E-W0003	HCS01.1E-W0006	HCS01.1E-W0009	HCS01.1E-W0013	
Performance data					1	
Continuous cur- rent	[A]	1.39	2.34	3	4.4	
Maximum current	[A]	3.3	6	9	13	
nput voltage	[V]	3 x AC 110230 V				
Tolerance	[%]	± 10 %				
requency			50(	60 Hz		
Frequency toler- ance	[Hz]		± 2 Hz			
Continuous input mains current	[A]	0.6	1.2	2.3	4.5	
Dependence of output on mains voltage	U < 400 V	1% power reduction per 4 V				
	U <sup>LN</sup> > 400 V	no power gain				
DC bus	, , , , , , , , , , , , , , , , , , ,					
Continuous out- out without choke	[kW]	0.15	0.25	0.46	0.8	
Max. output with- out choke	[kW]	0.45	0.75	1.38	2.4	
Switching fre-	4 kHz	0 400 Hz				
quency/max. out- out frequency	8 kHz	0800 Hz				
at noquonoy	12 kHz	01200 Hz				
	16 kHz	01600 Hz				

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# Servo drives Compact Drives IndraDrive Cs

Output voltage	[V]		3 x AC	0230 V	
DC bus capacity	[mF]	0.44 0.78			
DC bus voltage	[V] DC		Mains vol	tage x 1.41	
Brake chopper/re	sistor				
Braking energy consumption	[kWs]		C	).4	
Permanent brak- ing power	[kW]	0	.02	0	0.03
Maximum braking power	[kW]		1.	.68	
Control voltage					
Control voltage	External	24V ± 5 %			
Power consump- tion without con- trol unit and motor brake	[W]	27 28		28	
Protection					
Overall protection	category	IP20	IP20	IP20	IP20
Degree of contami	nation	2	2	2	2
Cooling type		not ventilated	not ventilated	not ventilated	air cooling
Weight					
Mass	[kg]	0.72	0.72	0.72	0.72
	•	HCS01.1E-W0005	HCS01.1E-W0008	HCS01.1E-W0018	HCS01.1E-W0028
Performance data	1				
Continuous cur- rent	[A]	2	2.7	7.6	11.52
Maximum current	[A]	5	8	18	28
Input voltage	[V]		3 x AC 2	00500 V	•
Tolerance	[%]		± 1	0 %	
Frequency			50	60 Hz	
Frequency toler- ance	[Hz]		± 2	2 Hz	
Continuous input mains current	[A]	1.5	2.5	5	10
Dependence of output on mains voltage	U _LN < 400 V		1% power red	duction per 4 V	
	U		no pov	ver gain	
	LN				
	<sup>LN</sup> > 400 V	<u> </u>			
DC bus					
Continuous output with choke	[kW]		0		4
Continuous output with choke Max. output with choke	[kW] [kW]		0		9.7
Continuous output with choke Max. output with	[kW]	0.46		1.7	

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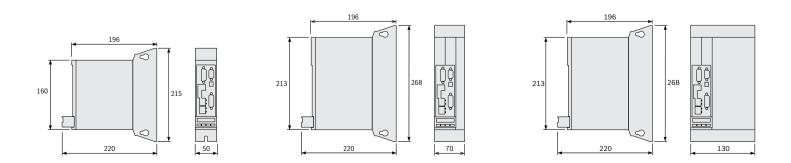
Servo drives

### Compact Drives IndraDrive Cs

Switching fre-	4 kHz		0 4	100 Hz			
quency/max. out- put frequency 8 kHz		0800 Hz					
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	Mains voltage x 1.41					
Brake chopper/res	sistor						
Braking energy consumption	[kWs]	0	.8	2.25	3		
Permanent brak- ing power	[kW]	0.02	0.03	0.05	0.15		
Maximum braking power	[kW]		4	7.2 10.6			
Control voltage							
Control voltage	External		24V	±5%			
Power consump- tion without con- trol unit and motor brake	[W]	27	28	34			
Protection							
Overall protection of	category	IP20	IP20	IP20	IP20		
Degree of contamin	nation	2	2	2	2		
Cooling type		air cooling	air cooling	air cooling	air cooling		
Weight							
Mass	[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



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# Servo drives Compact Drives IndraDrive Cs

		HCS01.1E- W0003	HCS01.1E- W0006	HCS01.1E- W0009	HCS01.1E- W0013
Dimensions		· · ·			
Height H	[mm]	215	215	215	215
Width B	[mm]	50	50	50	50
Depth T	[mm]	196	196	196	196
		HCS01.1E- W0005	HCS01.1E- W0008	HCS01.1E- W0018	HCS01.1E- W0028
Dimensions					HCS01.1E- W0028
	[mm]				
Dimensions Height H Width B	[mm]	W0005	W0008	W0018	W0028



**Bosch Rexroth AG** 

Postfach 13 57 97803 Lohr, Germany Bgm.-Dr.-Nebel-Str. 2 97816 Lohr, Germany Tel. +49 9352 18-0 Fax +49 9352 18-8400 www.boschrexroth.com/electrics

Local contact information can be found at: www.boschrexroth.com/adressen

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

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