

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.

**Technical data**

		HCS01.1E-W0003	HCS01.1E-W0006	HCS01.1E-W0009	HCS01.1E-W0013
<b>Performance data</b>					
Continuous current	[A]	1.39	2.34	3	4.4
Maximum current	[A]	3.3	6	9	13
Input voltage	[V]	3 x AC 110...230 V			
Tolerances	[%]	± 10 %			
Frequency		50...60 Hz			
Frequency tolerances	[Hz]	± 2 Hz			
Continuous input mains current	[A]	0.6	1.2	2.3	4.5
Dependence of output on mains voltage	$U_{LN} < 400 \text{ V}$	1% power reduction per 4 V			
	$U_{LN} > 400 \text{ V}$	no power gain			
<b>DC bus</b>					
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 frequency/max. output frequency	4 kHz	0...400 Hz			
	8 kHz	0...800 Hz			
	12 kHz	0...1200 Hz			
	16 kHz	0...1600 Hz			

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Output voltage	[V]	3 x AC 0...230 V			
DC bus capacity	[mF]	0.44		0.78	
DC bus voltage	[V] DC	Mains voltage x 1.41			
<b>Brake chopper / resistor</b>					
Braking Energy Consumption	[kWs]	0.4			
Continuous braking power	[kW]	0.02		0.03	
Maximum braking power	[kW]	1.68			
<b>Control Voltage</b>					
Control Voltage	external	24V ± 5 %			
Power consumption without control unit and motor brake	[W]	27		28	
<b>Protection</b>					
Category Total		IP20			
Degree of contamination		2			
Cooling system		not ventilated			air cooling
<b>Weight</b>					
Mass	[kg]	0.72			
		<b>HCS01.1E-W0005</b>	<b>HCS01.1E-W0008</b>	<b>HCS01.1E-W0018</b>	<b>HCS01.1E-W0028</b>
<b>Performance data</b>					
Continuous current	[A]	2	2.7	7.6	11.52
Maximum current	[A]	5	8	18	28
Input voltage	[V]	3 x AC 200...500 V			
Tolerances	[%]	± 10 %			
Frequency		50...60 Hz			
Frequency tolerances	[Hz]	± 2 Hz			
Continuous input mains current	[A]	1.5	2.5	5	10
Dependence of output on mains voltage	$U_{LN} < 400 \text{ V}$	1% power reduction per 4 V			
	$U_{LN} > 400 \text{ V}$	no power gain			
<b>DC bus</b>					
Continuous output with choke	[kW]	0			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 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...500 V			

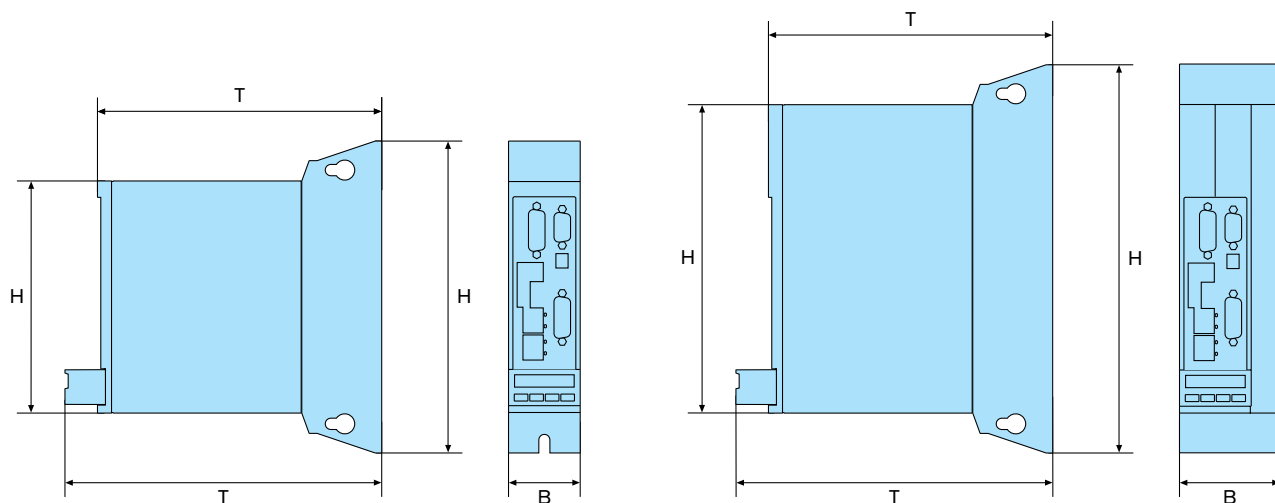
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DC bus capacity	[mF]	0.11		0.33	
DC bus voltage	[V] DC	Mains voltage x 1.41			
<b>Brake chopper / resistor</b>					
Braking Energy Consumption	[kWs]	0.8		2.25	3
Continuous braking power	[kW]	0.02	0.03	0.05	0.15
Maximum braking power	[kW]	4		7.2	10.6
<b>Control Voltage</b>					
Control Voltage	external	24V ± 5 %			
Power consumption without control unit and motor brake	[W]	27	28	34	
<b>Protection</b>					
Category Total		IP20			
Degree of contamination		2			
Cooling system		air cooling			
<b>Weight</b>					
Mass	[kg]	0.72		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
<b>Dimensions</b>				
Dimensions (H x W x D)	215 x 50 x 196 mm			

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Height H	[mm]	215
Width B	[mm]	50
Depth T	[mm]	196

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

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