

Electric Drives
and Controls

Hydraulics

Linear Motion and
Assembly Technologies

Pneumatics

Service

Rexroth
Bosch Group

Modular system

Single-axis inverter IndraDrive M - HMS



**Documentation**

- Operating Instructions
- Project Planning Manual

Technical data

		HMS01.1N-W0020	HMS01.1N-W0036	HMS01.1N-W0054	HMS01.1N-W0070	HMS01.1N-W0110
Power						
Continuous current	[A]	12.1	21.3	35	42.4	68.5
Maximum current	[A]	20	36	54	70.7	110
Motor nominal power typ.	[kW]	5.5	11	18.5	22	0
Input voltage	[V]	DC 254...750 V				
DC bus						
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				
DC bus voltage	[V] DC	254...750 V				
Control Voltage						
Control Voltage	external	24V ± 20%				
Power consumption without control unit and motor brake	[W]	10	15	10	16	34
Protection						
Category Total		IP20 (IEC529)				
Degree of contamination		2 (EN50178)				
EMC		EN61800-3				
Cooling system		forced ventilated				
Standards						
Certification		EN61800-5-1UL 508 C-				
Weight						
Weight	[kg]	5.27	5.27	6.68	7.94	11.06
Ambient conditions						
Ambient temp. operation	[°C]	0 ... 40 °C				
	Derating [°C]	0 ... 55 °C				
Ambient temp. storage	[°C]	-25...55 °C				
Relative humidity operation	[%]	5...95 %				
Relative humidity storage	[%]	5...95 %				

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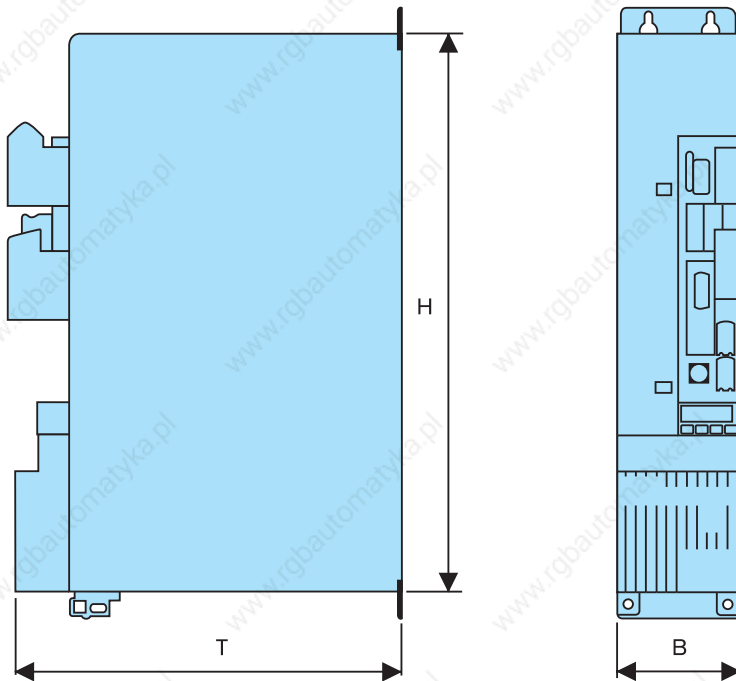
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Installation height	[m]	1000				
	[m] Derating	4000				
		HMS01.1N-W0150	HMS01.1N-W0210	HMS01.1N-W0350	HMS02.1N-W0028	HMS02.1N-W0054
Power						
Continuous current	[A]	99.7	150.7	250	13.82	25
Maximum current	[A]	150	210	350	28.3	54
Motor nominal power typ.	[kW]	55	75	0		
Input voltage	[V]	DC 254...750 V				
DC bus						
Switching frequency/max. output frequency	4 kHz	0...400 Hz				
	8 kHz	0...800 Hz				
	12 kHz	0...1200 Hz			-	0...1200 Hz
	16 kHz	0...1600 Hz		-		0...1600 Hz
Output voltage	[V]	3 x AC 0...500 V				
DC bus capacity	[mF]	0	4.9		0.135	0.27
DC bus voltage	[V] DC	254...750 V				
Control Voltage						
Control Voltage	external	24V ± 20%				
Power consumption without control unit and motor brake	[W]	23	75	218	13	17
Protection						
Category Total		IP20 (IEC529)				
Degree of contamination		2 (EN50178)				
EMC		EN61800-3				
Cooling system		forced ventilated				
Standards						
Certification		EN61800-5-1UL 508 C-				
Weight						
Weight	[kg]	12.74	16.44	31.7	3.5	5
Ambient conditions						
Ambient temp. operation	[°C]	0 ... 40 °C				
	Derating [°C]	0 ... 55 °C				
Ambient temp. storage	[°C]	-25...55 °C				
Relative humidity operation	[%]	5...95 %				
Relative humidity storage	[%]	5...95 %				
Installation height	[m]	1000				
	[m] Derating	4000				

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Dimensions



		HMS01.1N-W0020	HMS01.1N-W0036	HMS01.1N-W0054	HMS01.1N-W0070	HMS01.1N-W0110
Dimensions						
Height H	[mm]	440	440	440	440	440
Width W	[mm]	50	50	75	100	125
Depth D	[mm]	262	262	262	262	262
		HMS01.1N-W0350	HMS01.1N-W0210	HMS01.1N-W0150	HMS02.1N-W0028	HMS02.1N-W0054
Dimensions						
Height H	[mm]	440	440	440	352	352
Width W	[mm]	350	200	150	50	75
Depth D	[mm]	262	262	262	205	205

Components

Description	Page	Details
Control units	Single-axis	ADVANCED
Control units	Single-axis	BASIC ANALOG
Control units	Single-axis	BASIC OPEN LOOP
Control units	Single-axis	BASIC PROFIBUS
Control units	Single-axis	BASIC SERCOS

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Description	Page	Details
Control units	Single-axis	BASIC UNIVERSAL

Bosch Rexroth AG

Electric Drives and Controls

P.O. Box 13 57

97803 Lohr, Germany

Bgm.-Dr.-Nebel-Str. 2

97816 Lohr, Germany

Phone +49 9352-40-0

Fax +49 9352-40-4885

www.boschrexroth.com/electrics