SIEMENS

Data sheet

3RM1201-1AA14



Figure similar

General technical data:		
product brand name		SIRIUS
Product designation	-	Motor starter
Design of the product	-	with reversing functionality and electronic overload
		protection
Trip class		CLASS 10A
Protection class IP	_	IP20
Suitability for operation Device connector 3ZY12		No
Product function Intrinsic device protection		Yes
Type of the motor protection		solid-state
Product function Adjustable current limitation	-	Yes
Installation altitude at height above sea level	m	4 000
maximum		
Ambient temperature		
 during operation 	°C	-25 +60
 during transport 	°C	-40 +70
• during storage	°C	-40 +70
Shock resistance	-	6g / 11 ms
Vibration resistance	-	1 6 Hz, 15 mm; 20 m/s², 500 Hz
Surge voltage resistance Rated value	kV	6
Insulation voltage Rated value	V	500
Mechanical service life (switching cycles) typical		30 000 000
Conducted interference due to conductor-conductor		1 kV
surge acc. to IEC 61000-4-5		
Conducted interference due to burst acc. to IEC 61000-4-4		3 kV / 5 kHz

MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER 500 V; 0,1-0,5 A; 110-230 V AC SCREW CONNECTION SYSTEM

rediation acc. to IEC 61000-4-3 Image: Comparison of the control			
Field-bound HF-interference emission acc. to Class B for domestic, business and commercial environments, class A for industrial environments, at 110 V DC Conducted HF-interference emissions acc. to Class B for domestic, business and commercial environments, class A for industrial environments, class A for industrial environments, at 110 V DC maximum permissible voltage for safe isolation between main and auxiliary circuit between control and auxiliary circuit V 500 2500 Equipment marking acc. to DIN EN 81348-2 Q Safety related data inger-safe Wain Circuit: Number of poles for main current circuit Q Number of poles for main current circuit 3 Operating voltage Rated value maximum V 500 50 Silon Operating voltage Rated value Hz 50 Silon Operating voltage Rated value KV 500 Silon Operating voltage Rated value Hz 80 Silon Operating prospons value current of the current- 60 Silon Silon Adjustable response value current of the current- A 0.1 Silon Operating power for three-phase motors at 400 V at silon V 11	Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6		10 V
CISPR11 environments; Class A for industrial environments at 110 V DC Conducted HF-interference emissions acc. to CISPR11 Class B for domestic, business and commercial environments at 110 V DC maximum permissible voltage for safe isolation environments; Class A for industrial environments at 110 V DC externe main and auxiliary circuit V 500 ebetween control and auxiliary circuit V 250 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc, to IEC 750 Q Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc, to IEC 750 Q Safety related data: Protection against electrical shock finger-safe Mark circuit 3 3 Operating frequency iffinger-safe • I Rated value Hz 50 • 2 Rated value Hz 60 Operating trequency iffinger-safe • Active power lose typical A 0.5 Minimum load in % of LM % 20 Active power lose typical A 0.5 Operating power for three-phase motors at 400 V at 64 0.0 .0 Operating frequency maximum 1/s 1 Operating frequency	Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
CISPR11 environments; Class A for industrial environments at 110 V DC maximum permissible voltage for safe isolation • between control and auxiliary circuit • Cafety related data: • Protection against electrol shock • Inger-safe • Main circuit • Number of poles for main current circuit • 1 Rated value • 2 Rated value • 1 Rated value • 2 Rated			environments; Class A for industrial environments at
• between main and auxiliary circuitV500• between control and auxiliary circuitV250Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750QGaterQSafety related data:finger-safeProtection against electrical shockfinger-safeMumber of poles for main current circuit3Operating voltage Rated value maximumV500Operating voltage Rated value maximumV500Operating voltage Rated value maximumV500Operating trequency+ Hz60• 1 Rated valueA0.5• 2 Rated valueA0.5Minimum load in % of LM%20Active power loss typicalW0.02Adjustable response value current of the current- dependent overload releaseKW00.12Operating grouper for three-phase motors at 400 V at 50 HzKW00.12Operating trequency			environments; Class A for industrial environments at
Instruction auxiliary circuit V 250 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Q Equipment marking acc. to DIN EN 61346-2 Q Safety related data: finger-safe Protection against electrical shock finger-safe Main circuit: 3 Operating refugency i • 1 Rated value Hz • 2 Rated value Hz • 2 Rated value A • 2 Rated value M • 2 Rated value % • 2 Rated value A • 2 Rated value M • 2 Rated value M • 2 Rated value A • 2 Rated value A • 2 Rated value current of the current- A • 1 Rated value current of the current- A • 1 Rated value current of the current- A • 1 Rated value current of the current- A • 1 Rated value current of the current- A • 1 Rated value current of the current- A • 1 Rated value current of the current- A <	maximum permissible voltage for safe isolation		
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according to IEC 204-2 acc. to IEC 750 Q Equipment marking acc. to DIN EN 61346-2 Q Safety related data: finger-safe Protection against electrical shock finger-safe Main circuit: 3 Number of poles for main current circuit 3 Operating voltage Rated value maximum V 500 Operating trequency + • 1 Rated value Hz 50 • 2 Rated value Hz 60 Operating current with AC at 400 V Rated value A 0.5 Minimum load in % of LM % 20 Active power loss typical W 0.02 Active power fors three-phase motors at 400 V at N 00.12 Operating frequency maximum 1/s 1 • Differeduency requeres the current- A 0.10.5 Operating power for three-phase motors at 400 V at N 00.12 Operating frequency maximum 1/s 1 • Operating sponse for three-phase motors at 400 V at N 1 Operating frequency maximum 1/s 1 • Operating frequency maximum V 110 • or DC Rated value V 110 • of D DC V 110 230 • of D DC<	 between control and auxiliary circuit 	V	250
Safety related data: Protection against electrical shock finger-safe Mamber of poles for main current circuit 3 Operating voltage Rated value maximum V 500 Operating frequency - 1 Rated value Hz 50 2 Rated value Hz 60 Operating current with AC at 400 V Rated value A 0.5 Minimum load in % of LM % 20 Active power loss typical W 0.02 Adjustable response value current of the current- dependent overload release A 0.1 0.5 Operating frequency maximum 1/s 1 Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage 1 V 110 230 of nD C Rated value V 110 230 230 operating range factor control supply voltage rated value V 110 230			Q
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Protection against electrical shock finger-safe Main circuit: 3 Mumber of poles for main current circuit 3 Operating voltage Rated value maximum V 500 Operating frequency 1 8 • 1 Rated value Hz 50 • 2 Rated value Hz 60 Operating current with AC at 400 V Rated value A 0.5 Minimum load in % of LM % 20 Active power loss typical W 0.02 Adjustable response value current of the current- dependent overload release 0 0.1 0.5 Operating frequency maximum 1/s 1 Control circuit/ Control: Type of voltage of thre control supply voltage AC/DC Control supply voltage 1 V 110 110 • with AC V 110 230 — at 60 Hz V 110 230 Operating range factor control supply voltage rated value V 110 230 Operating range factor control supply voltage rated value V 110 230	afety related data:		
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dependent overload releaseKW0 0.12Operating power for three-phase motors at 400 V at 50 HzKW0 0.12Operating frequency maximum1/s1Control circuit/ Control:Control circuit/ Control:VType of voltage of the control supply voltageof or DC Rated valueV110• with ACV110 230- at 50 HzV110 230- at 60 HzV110 230Operating range factor control supply voltage rated value0.85 1.1	Active power loss typical	W	0.02
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Type of voltage of the control supply voltageAC/DCControl supply voltage 1	Control circuit/ Control:		
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at 60 Hz V 110 230 Operating range factor control supply voltage rated value 0.85 1.1	• with AC		
Operating range factor control supply voltage rated • for DC 0.85 1.1	— at 50 Hz	V	110 230
• for DC 0.85 1.1	— at 60 Hz	V	110 230
• for DC 0.85 1.1			
	• for DC		
			0.85 1.1
— at 50 Hz 0.85 1.1	• with AC		

— at 60 Hz		1.1 0.85
Control current	-	
• with AC		
— at 230 V		
— in standby mode	mA	9
— during operation	mA	22
— when switching on	mA	33
— at 110 V		
— in standby mode	mA	16
— during operation	mA	36
— when switching on	mA	55
• for DC		
— in standby mode	mA	6
— during operation	mA	30
— when switching on	mA	15
Input voltage at digital input		
● for signal <1>		
— for DC	V	79 121
— with AC	V	93 253
● with signal <0>		
— with AC	V	0 40
— for DC	V	0 40
Input current at digital input	_	
● for signal <1>		
— with AC at 230 V	mA	2.3
— with AC at 110 V	mA	1.1
— for DC	mA	1.5
● with signal <0>		
— with AC at 230 V	mA	0.4
— with AC at 110 V	mA	0.2
— for DC	mA	0.25
Switch-on delay time	ms	60 90
OFF-delay time	ms	60 90
Auxiliary circuit:		
Number of CO contacts for auxiliary contacts		1
Design of the switching contact as NO contact for signaling function		Electronic
Operating current of the auxiliary contacts		
• at AC-15 maximum	А	3

• at DC-13 maximum

Installation/ mounting/ dimensions:

1

А

	vertical, horizontal, standing
	screw and snap-on mounting onto 35 mm standard mounting rail
mm	22.5
mm	100
mm	141.6
	screw-type terminals
	screw-type terminals
	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
	1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
_	1x (20 12), 2x (20 14)
-	
	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
-	1x (20 14), 2x (18 16)
A	0.5
	Declaration ofTestConformityCertificates
E	HE CE ^{Type Test} Certificates/Tes <u>Report</u>
	EG-Konf.
	A

Environmental Confirmation

⁻urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

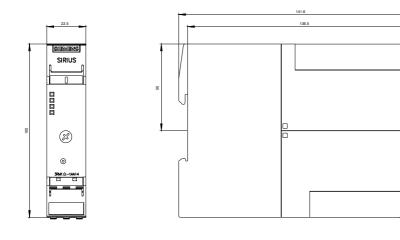
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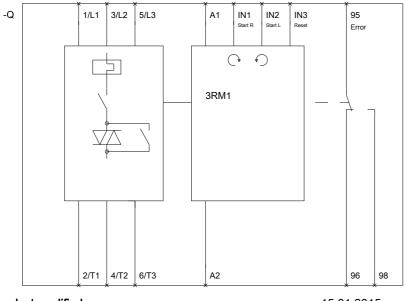
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