SIEMENS

Data sheet 3RM1201-2AA04



MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER 500 V; 0,1-0,5 A; 24 V DC PUSH-IN CONNECTION SYSTEM

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		Yes
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 maximum	m	4 000
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 surge acc. to IEC 61000-4-5		1 kV
Conducted interference due to burst acc. to IEC 61000-4-4		3 kV / 5 kHz

radiation acc. to IEC 61000-4-6		10 V
Electrostatic discharge acc. to IEC 61000-4-2	_	4 kV contact discharge / 8 kV air discharge
Field-bound HF-interference emission acc. to CISPR11		Class B for the domestic, business and commercial environments
Conducted HF-interference emissions acc. to CISPR11		Class B for the domestic, business and commercial environments
maximum permissible voltage for safe isolation		
 between main and auxiliary circuit 	V	500
 between 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 EN 61346-2		Q
Safety related data:		
Protection against electrical shock		finger-safe
Main circuit:		
Number 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	Α	0.5
Minimum load in % of I_M	%	20
Active power loss typical	W	0.02
Adjustable response value current of the current- dependent overload release	Α	0.1 0.5
Operating power for three-phase motors at 400 V at 50 Hz	kW	0 0.12
Operating frequency maximum	1/s	1
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC Rated value	V	24
Operating range factor control supply voltage rated		
value		
• for DC		0.8 1.25
Control current		
• for DC		
— in standby mode	mA	25
— during operation	mA	70
— when switching on	mA	150
Input voltage at digital input		
• for signal <1>		

10 V

Conducted interference due to high-frequency

— for DC	V	15 30
• with signal <0>		
— for DC	V	0 5
Input current at digital input		
• for signal <1>		
— for DC	mA	11
• with signal <0>		
— for DC	mA	1
Switch-on delay time	ms	60 90
OFF-delay time	ms	60 90
Auxiliary circuit:		

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	Α	3
• at DC-13 maximum	Α	1

Installation/ mounting/ dimensions:		
mounting position		vertical, horizontal, standing
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	100
Depth	mm	141.6

Connections/ Terminals:	
Type of electrical connection	
for main current circuit	PUSH-IN connection (spring-loaded connection)
 for auxiliary and control current circuit 	PUSH-IN connection (spring-loaded connection)
Type of connectable conductor cross-section for main contacts	
• solid	1x (0.5 4 mm²)
 finely stranded 	
— with core end processing	1x (0.5 2.5 mm²)
 without core end processing 	1x (0.5 4 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts	1x (20 12)
Type of connectable conductor cross-section for auxiliary contacts	
• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• finely stranded	
— with core end processing	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
 without core end processing 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)

Type of connectable conductor cross-section for 1x (20 ... 16), 2x (20 ... 16)

AWG conductors for auxiliary contacts

Α

UL ratings:

Full-load current (FLA) for three-phase AC motor at 480 V Rated value

0.5

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Certificates











Type Test
Certificates/Test
Report

Confirmation
Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

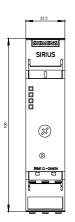
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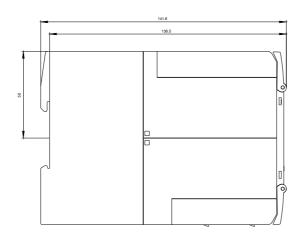
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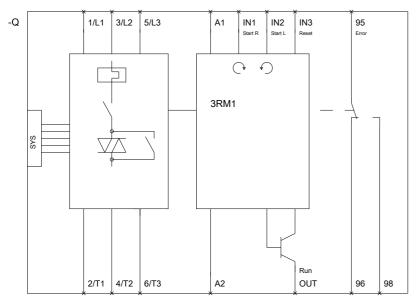
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RM12012AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RM12012AA04&lang=en







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