SIEMENS

Data sheet 3RM1001-1AA14



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

Figure similar

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General technical data:		CIDILIC
product brand name		SIRIUS
Product designation		Motor starter
Design of the product		with 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

Conducted interference due to high-frequency 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 domestic, business and commercial 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; Class A for industrial environments at 110 V DC
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		AC/DC
Control supply voltage 1		
• for DC Rated value	V	110
• with AC		
— at 50 Hz	V	110 230

value

for DCwith AC

— at 60 Hz

— at 50 Hz

Operating range factor control supply voltage rated

110 ... 230

0.85 ... 1.1

0.85 ... 1.1

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— 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		Electronic
signaling function		
Operating current of the auxiliary contacts		2
• at AC-15 maximum	A	3
at DC-13 maximum	Α	1
nstallation/ 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	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-section for main contacts	
• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
 finely stranded 	
— with core end processing	1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts	1x (20 12), 2x (20 14)
Type of connectable conductor cross-section for auxiliary contacts	
• solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
finely stranded	
— with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
Type of connectable conductor cross-section for AWG conductors for auxiliary contacts	1x (20 14), 2x (18 16)

UL ratings:

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

Α

0.5

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates











Type Test
Certificates/Test
Report

Test	other		
Certificates			
Special Test	Environmental	Confirmation	
Certificate	Confirmations		

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM10011AA14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RM10011AA14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM10011AA14&lang=en

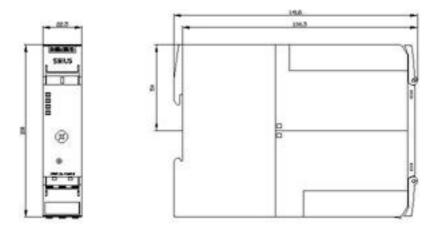
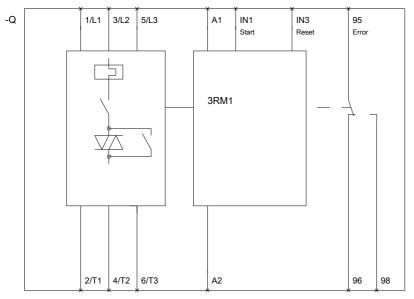


Figure similar



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