SIEMENS

Product data sheet 3RM1007-2AA14



MOTOR STARTER 3RM1 SIRIUS DIRECT STARTER 500 V; 1,6-7,0 A; 110-230 V AC PUSH-IN-TYPE CONNECTION SYSTEM

General technical data:		
product designation		Motor starter
Design of the product		with electronic overload protection
Protection class IP		IP20
Suitability for use / device connector 3ZY12		No
Installation altitude / at a height over sea level / maximum	m	4,000
Ambient temperature		
during operating	°C	-25 +60
during transport	°C	-40 +7 0
during storage	°C	-40 +7 0
Resistance against shock		6g / 11 ms
Resistance against vibration		1 6 Hz, 15 mm; 20 m/s², 500 Hz
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	600
Mechanical operating cycles as operating time / typical		30,000,000
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV / 5 kHz
Conducted interference as high-frequency radiation according to IEC 61000-4-6		10 V

Electrostatic discharge / according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Field-bound HF-interference emission / according to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Conductor-bound HF-interference emission / according to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC

Safety:		
Safety device type / according to IEC 61508-2		Type B
Main circuit:		
Operating voltage / rated value / maximum	V	500
Operating frequency		
• 1	Hz	50
• 2	Hz	60
Operating current / at 400 V / for AC / rated value	Α	7
Derating temperature	°C	40
Minimum load in % of I_M	%	20
Active power loss / typical	W	3.3
Adjustable response current		
of the current-dependent overload release	Α	1.6 7
Service power / for three-phase servomotors / at 400 V		
• at 50 Hz	kW	0.55 3
Operating cycles / maximum	1/s	1

Control circuit:		
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage / 1		
• for DC / rated value	V	110
• at 50 Hz		
• for AC	V	110 230
• at 60 Hz		
• for AC	V	110 230
Operating range factor control supply voltage rated value		
• for DC		0.85 1.1
• at 50 Hz		
• for AC		0.85 1.1
Control current	Α	0.05
Input voltage / at the digital input / with signal <1>		
• for DC	V	93 121
• with AC	V	93 253

Input current / at the digital input / for signal <1> / typical	Α	0.0020
Start-up delay time	ms	80
Switch-off delay time	ms	90

Installation/mounting/dimensions:		
mounting position		vertical, horizontal
Width	mm	22.5
Height	mm	100
Depth	mm	141.6

Connections:	
Design of the 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 the connectable conductor cross-section	
for main contacts	
• solid	1x (0.2 4 mm²)
finely stranded	
 with conductor end processing 	1x (0.5 2.5 mm²)
 without conductor final cutting 	1x (0.5 4 mm²)
for AWG conductors	1x (24 12)
Type of the connectable conductor cross-section	
for auxiliary contacts	
• solid	1x (0.2 1.5 mm²), 2x (0.2 1.5 mm²)
• finely stranded	
 with conductor end processing 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
 without conductor final cutting 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
for AWG conductors	1x (24 16), 2x (24 16)

UL ratings:		
Operating current (FLA) / for three-phase squirrel cage motors / at 480 V / rated value	А	6.1
yielded mechanical performance (hp)		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.25
• at 230 V / rated value	hp	0.5
for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	1
• at 220/230 V / rated value	hp	1.5
• at 460/480 V / rated value	hp	3

Certificates/approvals:

General Product Approval

Declaration of Conformity

Test Certificates







Type Test
Certificates/Test
Report

Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator

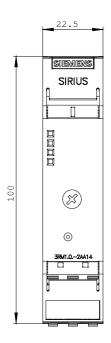
http://www.siemens.com/cax

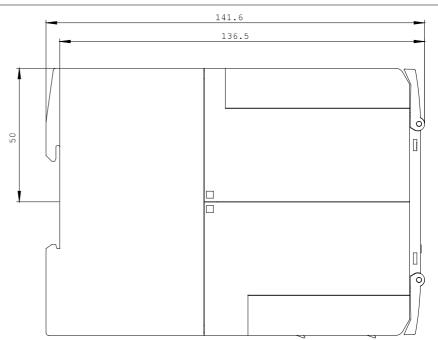
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

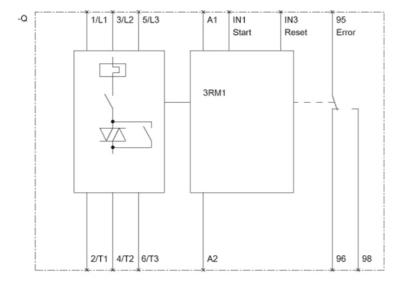
http://support.automation.siemens.com/WW/view/en/3RM1007-2AA14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1007-2AA14







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