SIEMENS

Data sheet 3RM1002-2AA04



MOTOR STARTER SIRIUS 3RM1 DIRECT STARTER 500 V; 0,4-2,0 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 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	4 000 m
maximum	
Ambient temperature	
during operation	-25 +60 °C
during transport	-40 +70 °C
during storage	-40 +70 °C
Shock resistance	6g / 11 ms
Vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
Surge voltage resistance Rated value	6 kV
Insulation voltage Rated value	500 V
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 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 	500 V
 between control and auxiliary circuit 	250 V
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	500 V
Operating frequency	
• 1 Rated value	50 Hz
• 2 Rated value	60 Hz
Minimum load [% of IM]	20 %
Active power loss typical	0.3 W
Adjustable response value current of the current- dependent overload release	0.4 2 A
Operating power for three-phase motors at 400 V at 50 Hz	0.09 0.75 kW
Operating frequency maximum	1 1/s
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage 1	
• for DC Rated value	24 V
Operating range factor control supply voltage rated	
value	
• for DC	0.8 1.25
Control current	
• for DC	
— in standby mode	25 mA
during operation	70 mA
— when switching on	150 mA
Input voltage at digital input	
• for signal <1>	

15 30 V
0 5 V
11 mA
1 mA
60 90 ms
60 90 ms
1
Electronic
3 A
1 A
vertical, horizontal, standing
screw and snap-on mounting onto 35 mm standard mounting rail
22.5 mm
100 mm
141.6 mm
PUSH-IN connection (spring-loaded connection)
PUSH-IN connection (spring-loaded connection)
1x (0.5 4 mm²)
1x (0.5 2.5 mm²)
1x (0.5 4 mm²)
1x (20 12)
1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
(0.0 1.0 mm), 2x (0.0 1.0 mm)

Type of connectable conductor cross-section for	1x (20 16), 2x (20 16)
AWG conductors for auxiliary contacts	

UL ratings:	
Full-load current (FLA) for three-phase AC motor at	2 A
480 V Rated value	
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V Rated value	0.125 hp
 for three-phase AC motor 	
— at 200/208 V Rated value	0.333 hp
— at 220/230 V Rated value	0.333 hp
— at 460/480 V Rated value	0.75 hp

Certificates/ approvals:

General Product Approval Declaration of Conformity Certificates











Type Test
Certificates/Test
Report

Test	other	
Certificates		
Special Test	Environmental	Confirmation
Certificate	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

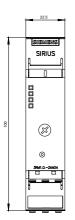
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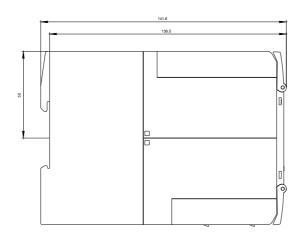
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM10022AA04

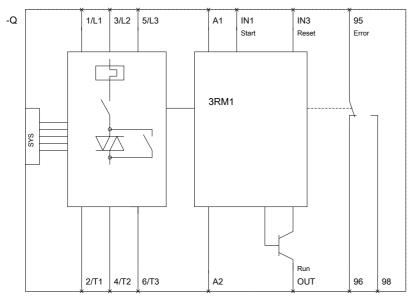
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RM10022AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM10022AA04&lang=en







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