SIEMENS

Data sheet 3RM1001-2AA04

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



Figure similar

General technical data	
product brandname	SIRIUS
Product category	Motor starter
Product designation	Direct-on-line 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 maximum	4 000 m
Ambient temperature	
during operation	-25 +60 °C
 during transport 	-40 +70 °C
during storage	-40 +70 °C
Relative humidity during operation	10 95 %

Air pressure acc. to SN 31205	900 1 060 hPa
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 surge acc. to IEC 61000-4-5 	1 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
• due to burst acc. to IEC 61000-4-4	3 kV / 5 kHz
 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	
Books of the construction of the classical should	

Safety related data		
Protection against electrical shock	finger-safe	
Main circuit		
Number of poles for main current circuit	3	
Operating voltage rated value	48 500 V	
Relative symmetrical tolerance of the operating	10 %	
voltage		
Operating frequency		
• 1 rated value	50 Hz	
• 2 rated value	60 Hz	
Relative symmetrical tolerance of the operating	10 %	
frequency		
Operating current at AC-53a at 400 V at ambient	0.5 A	
temperature 40 °C rated value		
Minimum load [% of IM]	20 %	
Power loss [W] typical	0.02 W	
Adjustable pick-up value current of the current-	0.1 0.5 A	
dependent overload release		

0	0.040104
Operating power for three-phase motors at 400 V at 50 Hz	0 0.12 kW
Operating frequency maximum	1 1/s
Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage 1	
at DC rated value	24 V
Operating range factor control supply voltage rated	
value	
• at DC	0.8 1.25
Control current	
• at DC	
— in standby mode	25 mA
— during operation	70 mA
— when switching on	150 mA
Input voltage at digital input	
• for signal <1>	
— at DC	15 30 V
• with signal <0>	
— at DC	0 5 V
Input current at digital input	
• for signal <1>	
— at DC	11 mA
● with signal <0>	
— at DC	1 mA
Switch-on delay time	60 90 ms
Off-delay time	60 90 ms
Auxiliary circuit	
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for	1 OLIT electronic 24 V DC 15 mA
signaling function	OUT, electronic, 24 V DC, 15 mA
Operating current of auxiliary contacts	
• at AC-15 at 230 V maximum	3 A
• at DC-13 at 24 V maximum	1 A
Installation/ mounting/ dimensions	vertical herizontal atendina
Mounting position Mounting type	vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard mounting rail
Width	22.5 mm
Height	100 mm
Depth	141.6 mm
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-sections 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-sections at AWG conductors for main contacts	1x (20 12)
Type of connectable conductor cross-sections 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-sections at AWG conductors for auxiliary contacts	1x (20 16), 2x (20 16)

UL ratings

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

0.5 A

Certificates/approvals

General Product Approval

Declaration of Conformity













Test Certificates

other

Type Test Certificates/Test Report

Special Test Certificate

Environmental Confirmations

Confirmation

Further information

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

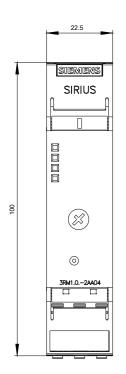
http://www.siemens.com/industrial-controls/catalogs

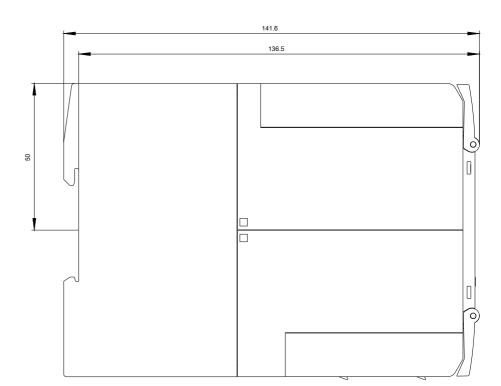
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1001-2AA04

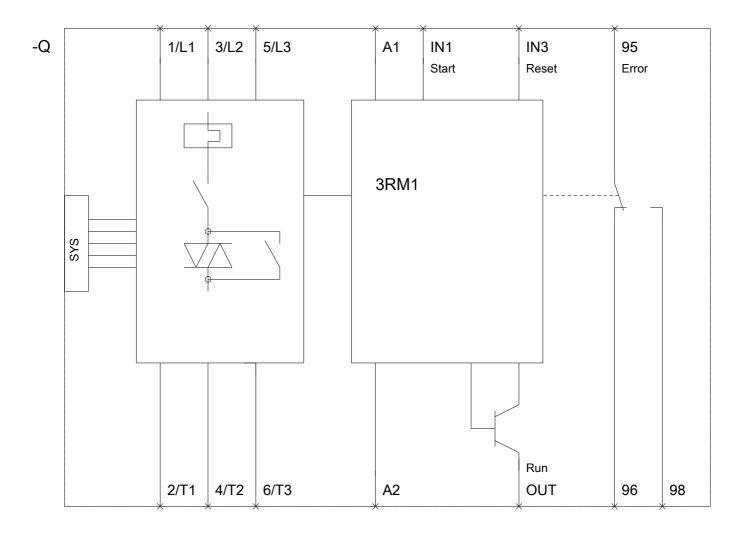
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1001-2AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1001-2AA04&lang=en







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