SIEMENS

Product data sheet 3RM1001-1AA04



MOTOR STARTER 3RM1 SIRIUS DIRECT STARTER 500 V, 0,1-0,5 A, 24 V DC SCREW-TYPE CONNECTION SYSTEM

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 use / 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 a height over sea level / maximum	m	4,000		
Ambient temperature				
during operating	°C	-25 +60		
during transport	°C	-40 +70		
during storage	°C	-40 +70		
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	500		
Mechanical operating cycles as operating time / typical		30,000,000		

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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		3 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 the domestic, business and commercial environments			
Conductor-bound HF-interference emission / according to CISPR11		Class B for the domestic, business and commercial environments		
Maximum permissible voltage for safe disconnection				
between main circuit and auxiliary circuit	V	500		
between control and auxiliary circuit	V	250		
Reference code				
 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		Q		
according to DIN EN 61346-2		Q		
Safety related data:				
Protection against electrical shock		finger-safe		

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	Hz	50
• 2	Hz	60
Operating current / at 400 V / for AC / rated value	Α	0.5
Minimum load in % of I_M	%	20
Active power loss / typical	W	0.02
Adjustable response current		
• of the current-dependent overload release	Α	0.1 0.5
Service power / for three-phase servomotors / at 400 V		
• at 50 Hz	kW	0 0.12
Operating cycles / maximum	1/s	1

Control circuit/ Control:			
Voltage type / of control feed 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		
• with DC		
• in standby mode	mA	25
during operation	mA	70
on switching on	mA	150
nput voltage / at the digital input		
• with signal <1>		
• for DC	V	15 30
• with signal <0>		
• with DC	V	0 5
nput voltage / at digital input		
• with signal <1>		
• with DC	mA	11
• with signal <0>		
• with DC	mA	1
ON-delay time	ms	60 90
DFF-delay time	ms	60 90
Auxiliary circuit:		
Number of changeover contacts / for auxiliary contacts		1
Design of the switching contact / as make contact / for reporting function		Electronic
Operating current / of the auxiliary contacts		
• at AC-15	Α	3
• at DC-13	Α	1
nstallation/ mounting/ dimensions:		
nounting position		
		vertical, horizontal, standing
Mounting type		vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type Width	mm	screw and snap-on mounting onto 35 mm standard
	mm	screw and snap-on mounting onto 35 mm standard mounting rail
Width		screw and snap-on mounting onto 35 mm standard mounting rail 22.5
Width Height	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100
Width Height Depth	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100
Width Height Depth Connections/ terminals:	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100
Width Height Depth Connections/ terminals: Design of the electrical connection	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6
Width Height Depth Connections/ terminals: Design of the electrical connection • for main current circuit	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6 screw-type terminals
Width Height Depth Connections/ terminals: Design of the electrical connection • for main current circuit • for auxiliary and control current circuit	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6 screw-type terminals
Width Height Depth Connections/ terminals: Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section	mm	screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6 screw-type terminals

 with conductor end processing 	1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
• for AWG conductors	1x (20 12), 2x (20 14)
Type of the connectable conductor cross-section	
• for auxiliary contacts	
• solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
• finely stranded	
 with conductor end processing 	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
for AWG conductors	1x (20 14), 2x (18 16)

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Full-load current (FLA) / for 3-phase motor / at 480 V / rated

Α

0.5

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates











Type Test Certificates/Test Report

other

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/industrial-controls/mall

Cax online generator

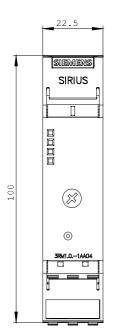
http://www.siemens.com/cax

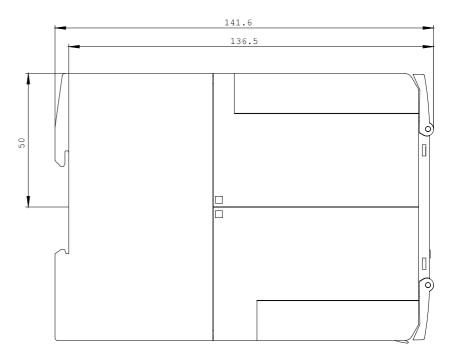
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

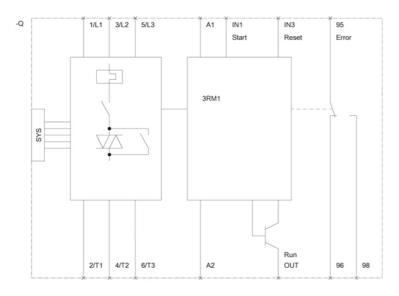
http://support.automation.siemens.com/WW/view/en/3RM1001-1AA04/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1001-1AA04







last change: Jul 28, 2014