SIEMENS

Product data sheet 3RM1201-1AA04



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

General technical data:				
product brand name		SIRIUS		
Product designation		Motor starter		
Design of the product		with reversing functionality and 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		
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		
Main circuit:				

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
Input voltage / at the digital input		
• with signal <1>		
• for DC	V	15 30
• with signal <0>		
• with DC	V	0 5
Input voltage / at digital input		
• with signal <1>		
• with DC	mA	11
• with signal <0>		
• with DC	mA	1
ON-delay time	ms	60 90
OFF-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		

Installation/ 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:				
Design of the electrical connection				
for main current circuit	screw-type terminals			
 for auxiliary and control current circuit 	screw-type terminals			
Type of the connectable conductor cross-section				
• for main contacts				
• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			

• finely stranded	
 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 value

A 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

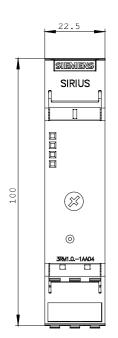
http://www.siemens.com/cax

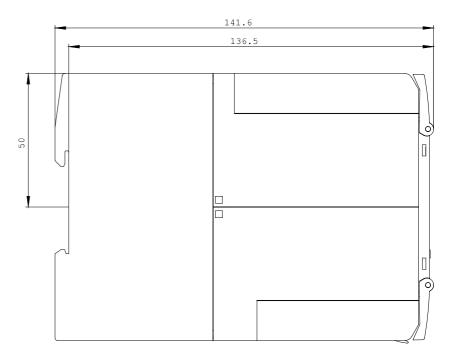
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

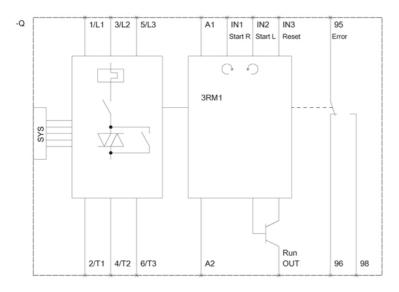
http://support.automation.siemens.com/WW/view/en/3RM1201-1AA04/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1201-1AA04}}$







last change: Jul 28, 2014