SIEMENS

Product data sheet 3RM1207-2AA04



MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER 500 V; 1,6-7,0 A; 24 V DC PUSH-IN 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	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		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:		

Safety related data:		
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	А	7
Derating temperature	°C	40
Minimum load in % of I_M	%	20
Active power loss / typical	W	3.4
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/ Control:

Control supply voltage / 1

• for DC / rated value

Voltage type / of control feed voltage

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DC

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		Electronic
function		Licentific
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
Width	mm	mounting rail 22.5
Height	mm	100
Depth	mm	141.6
Connections/ terminals:		
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)
		. 3311 III 331 III (Spring loaded connection)
Type of the connectable conductor cross-section		
• for main contacts		

• solid	1x (0.5 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 (20 12)
Type of the connectable conductor cross-section	
• for auxiliary contacts	
• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• finely stranded	
 with conductor end processing 	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
without conductor final cutting	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• for AWG conductors	1x (20 16), 2x (20 16)

UL ratings:		
Full-load current (FLA) / for 3-phase motor / at 480 V / rated value	Α	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

other

Environmental Confirmations

Further information:

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

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$

Industry Mall (Online ordering system)

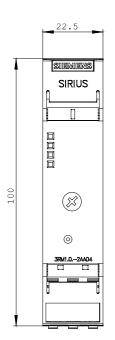
http://www.siemens.com/industrial-controls/mall

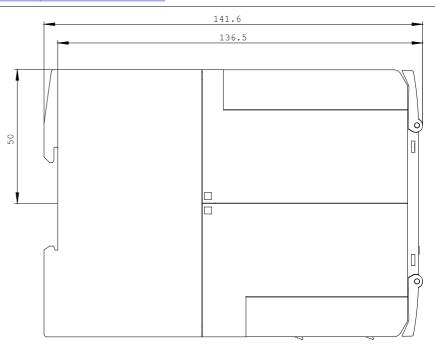
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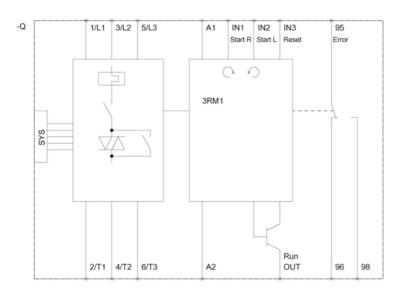
http://www.siemens.com/cax

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1207-2AA04







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