SIEMENS

Product data sheet 3RM1202-2AA04

MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER
500 V;
0,4-2,0 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:		
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	A	2
Minimum load in % of I_M	%	20
Active power loss / typical	W	0.3
Adjustable response current		
• of the current-dependent overload release	A	0.4 … 2
Service power / for three-phase servomotors / at 400 V		
• at 50 Hz	kW	0.09 … 0.75
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	A	3
• at DC-13	A	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		PUSH-IN connection (spring-loaded connection)
• for auxiliary and control current circuit		PUSH-IN connection (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	A	2
yielded mechanical performance (hp)		
• for single-phase squirrel cage motors		
• at 230 V / rated value	hp	0.125
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.333
• at 220/230 V / rated value	hp	0.333
• at 460/480 V / rated value	hp	0.75

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	EAC	GOST	UL	EG-Konf.	Type Test Certificates/Test Report
other					
Environmental Confirmations					

Further information:

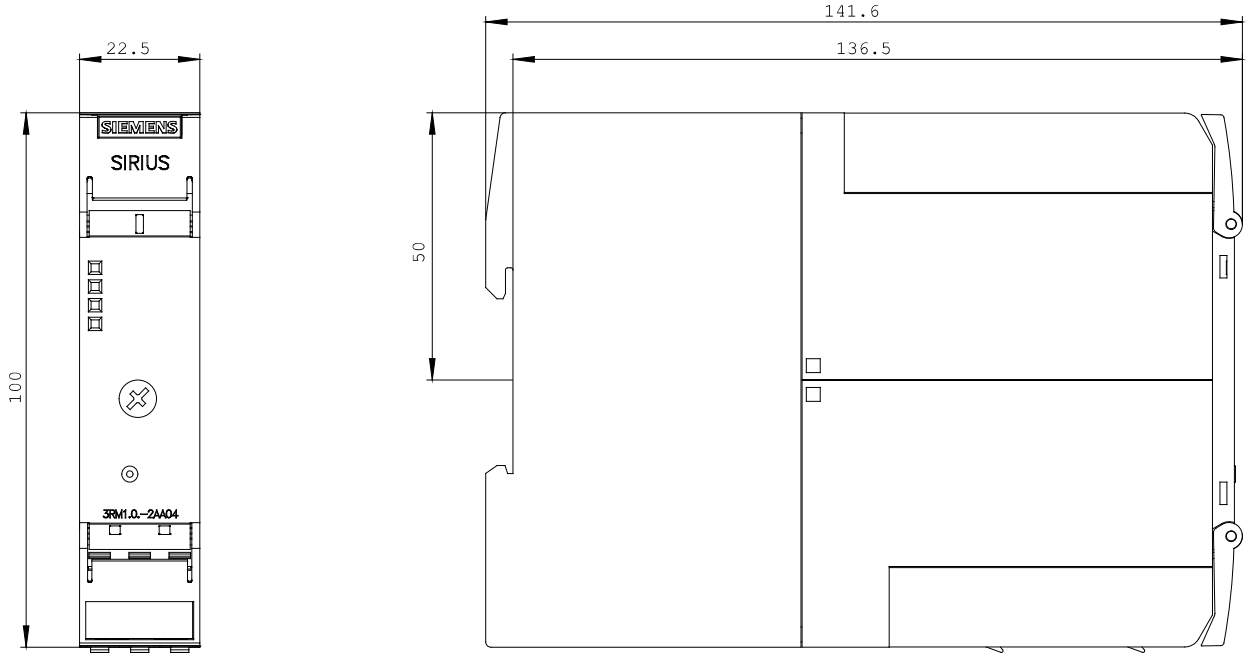
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

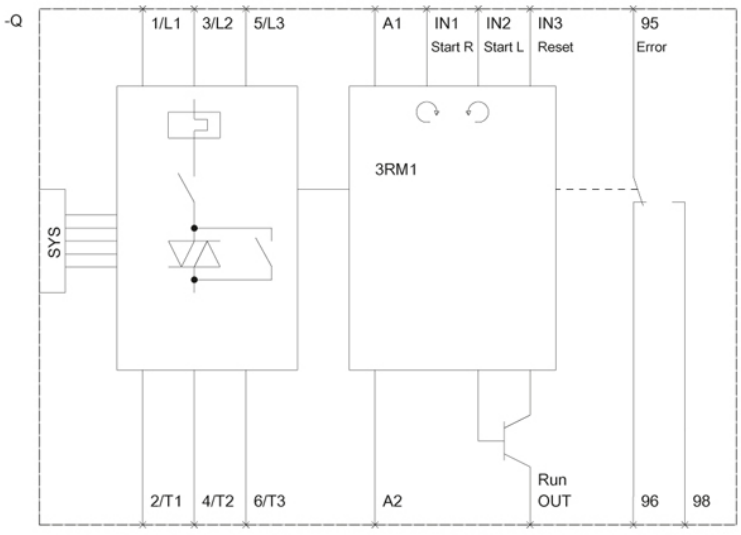
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Cax online generator
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RM1202-2AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1202-2AA04





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