



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

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	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	A	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 • during operation • on switching on		
	mA	25
	mA	70
	mA	150
Input voltage / at the digital input • with signal <1> • for DC • with signal <0> • with DC		
	V	15 ... 30
	V	0 ... 5
Input voltage / at digital input • with signal <1> • with DC • with signal <0> • with DC		
	mA	11
	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 • at DC-13		
	A	3
	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 • for auxiliary and control current circuit		PUSH-IN connection (spring-loaded connection)
		PUSH-IN connection (spring-loaded connection)
Type of the connectable conductor cross-section • for main contacts • solid • finely stranded		
		1x (0.5 ... 4 mm²)

• with conductor end processing • without conductor final cutting • for AWG conductors	1x (0.5 ... 2.5 mm ²) 1x (0.5 ... 4 mm ²) 1x (20 ... 12)
Type of the connectable conductor cross-section • for auxiliary contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²) 1x (0.5 ... 1.0 mm ²), 2x (0.5 ... 1.0 mm ²) 1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²) 1x (20 ... 16), 2x (20 ... 16)

UL ratings:

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



CCC



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

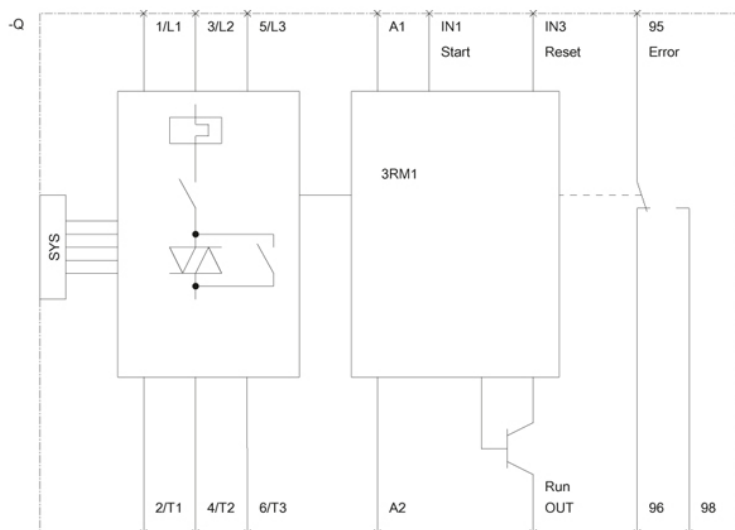
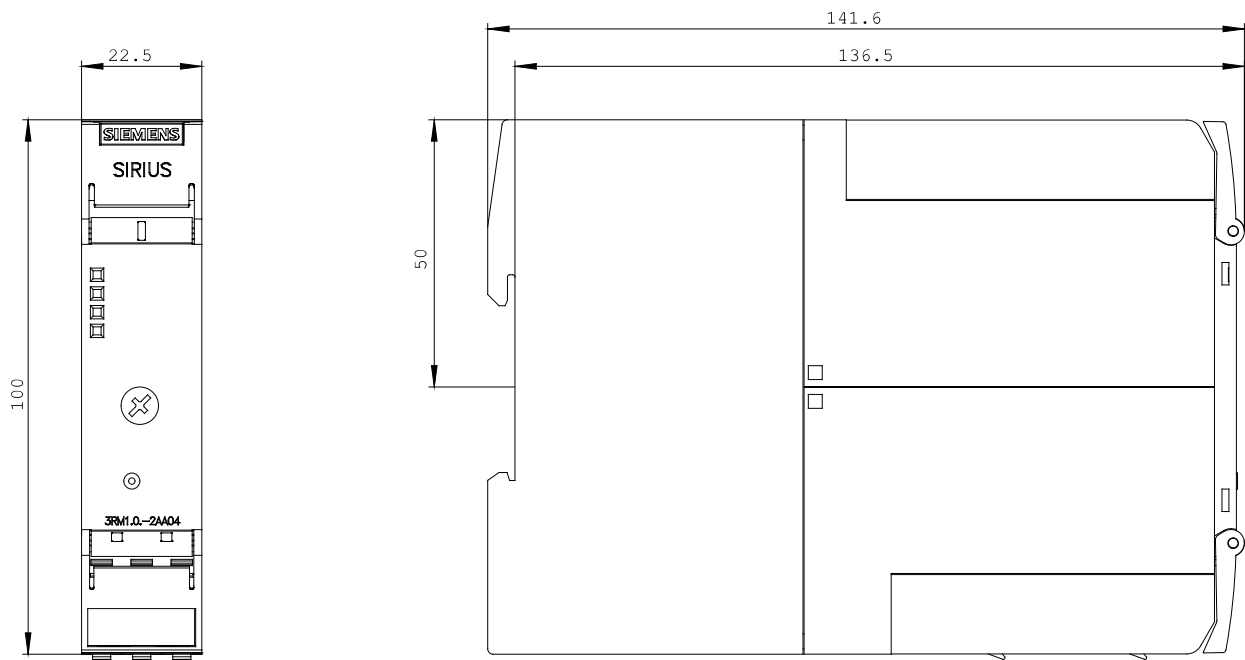
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RM1001-2AA04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1001-2AA04



last change:

Jul 28, 2014