



MOTOR STARTER 3RM1 SIRIUS DIRECT STARTER 500 V;
1,6-7,0 A;
24 V DC SCREW-TYPE CONNECTION SYSTEM

General technical data:

product designation		Motor starter
Design of the product		with electronic overload protection
Protection class IP		IP20
Suitability for use / device connector 3ZY12		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		2 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

Safety:		
Safety device type / according to IEC 61508-2		Type B

Main circuit:		
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	7
Derating temperature	°C	40
Minimum load in % of I_M	%	20
Active power loss / typical	W	3.3
Adjustable response current		
• of the current-dependent overload release	A	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:		
Type of voltage / of the controlled supply 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	A	0.08
Input voltage / at the digital input / with signal <1>		
• for DC	V	19.2 ... 30
Input current / at the digital input / for signal <1> / typical	A	0.01
Start-up delay time	ms	80
Switch-off delay time	ms	90

Installation/mounting/dimensions:		
mounting position		vertical, horizontal
Width	mm	22.5
Height	mm	100

Depth	mm	141.6
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Connections:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Type of the connectable conductor cross-section

• for main contacts

- solid
- finely stranded
 - with conductor end processing

- for AWG conductors

1x (0.2 ... 4 mm²), 2x (0.2 ... 2.5 mm²)

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 2.5 mm²)

1x (20 ... 12), 2x (20 ... 14)

Type of the connectable conductor cross-section

• for auxiliary contacts

- finely stranded
 - with conductor end processing

- for AWG conductors

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²)

1x (20 ... 14), 2x (20 ... 16)

UL ratings:

Operating current (FLA) / for three-phase squirrel cage motors / at 480 V / rated value

A

6.1

yielded mechanical performance (hp)

- for single-phase squirrel cage motors
 - at 110/120 V / rated value
 - at 230 V / rated value
- for three-phase squirrel cage motors
 - at 200/208 V / rated value
 - at 220/230 V / rated value
 - at 460/480 V / rated value

hp

0.25

hp

0.5

hp

1

hp

1.5

hp

3

Certificates/approvals:

General Product Approval

Declaration of Conformity

Test Certificates



[Type Test](#)
[Certificates/Test](#)
[Report](#)

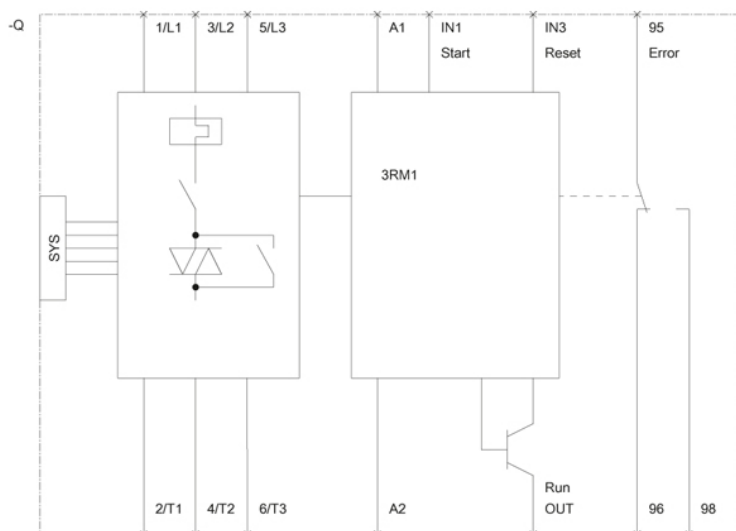
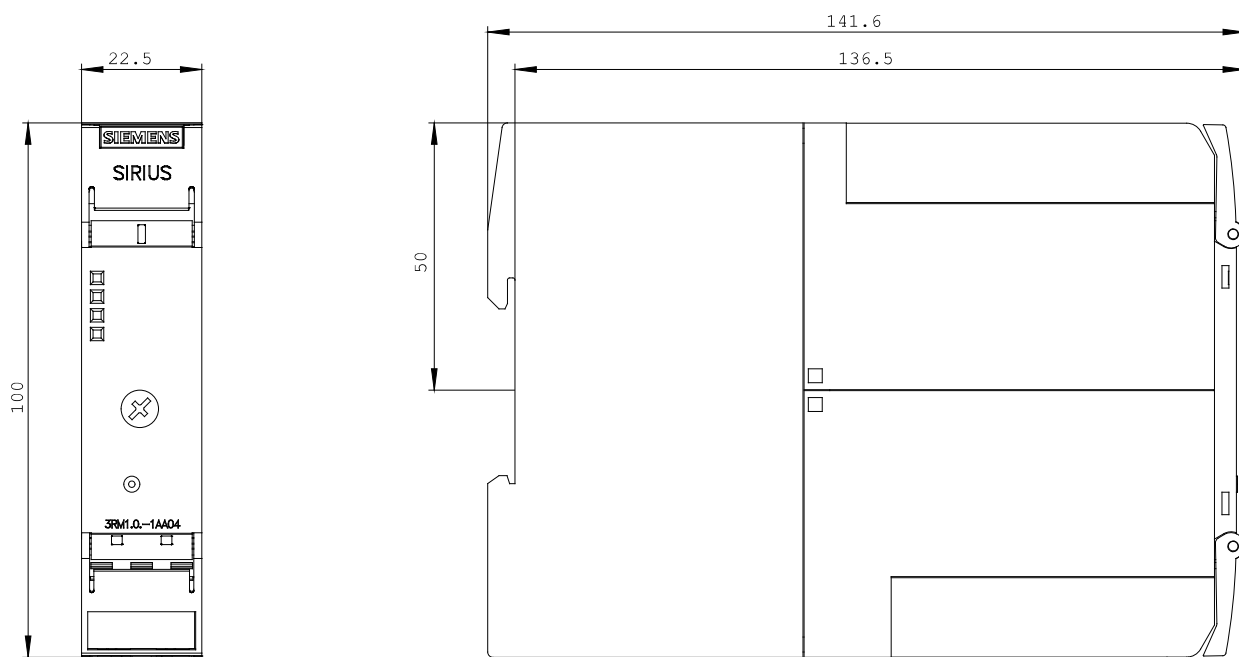
Further information:

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

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



last change:

Mar 11, 2013