



MOTOR STARTER 3RM1 SIRIUS DIRECT STARTER 500 V;
0,1-0,5 A;
110-230 V AC PUSH-IN-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		No
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 domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Conductor-bound HF-interference emission / according to CISPR11		Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC

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	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:

Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage / 1		
• for DC / rated value	V	110
• at 50 Hz		
• for AC	V	110 ... 230
• at 60 Hz		
• for AC	V	110 ... 230
Operating range factor control supply voltage rated value		
• for DC		0.85 ... 1.1
• at 50 Hz		
• for AC		0.85 ... 1.1
Control current	A	0.05
Input voltage / at the digital input / with signal <1>		
• for DC	V	93 ... 121
• with AC	V	93 ... 253
Input current / at the digital input / for signal <1> / typical	A	0.0020

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

Connections:

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
 - with conductor end processing
 - without conductor final cutting

1x (0.2 ... 4 mm²)

1x (0.5 ... 2.5 mm²)
1x (0.5 ... 4 mm²)
1x (24 ... 12)

• for AWG conductors

Type of the connectable conductor cross-section

• for auxiliary contacts

- solid
- finely stranded
 - with conductor end processing
 - without conductor final cutting

1x (0.2 ... 1.5 mm²), 2x (0.2 ... 1.5 mm²)

1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)
1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)
1x (24 ... 16), 2x (24 ... 16)

• for AWG conductors

UL ratings:

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

A 0.5

Certificates/approvals:

General Product Approval

Declaration of Conformity

Test Certificates



GOST



UL



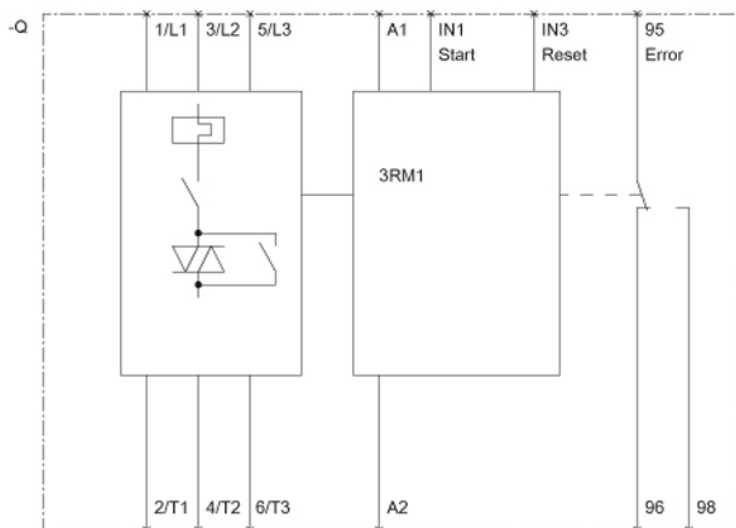
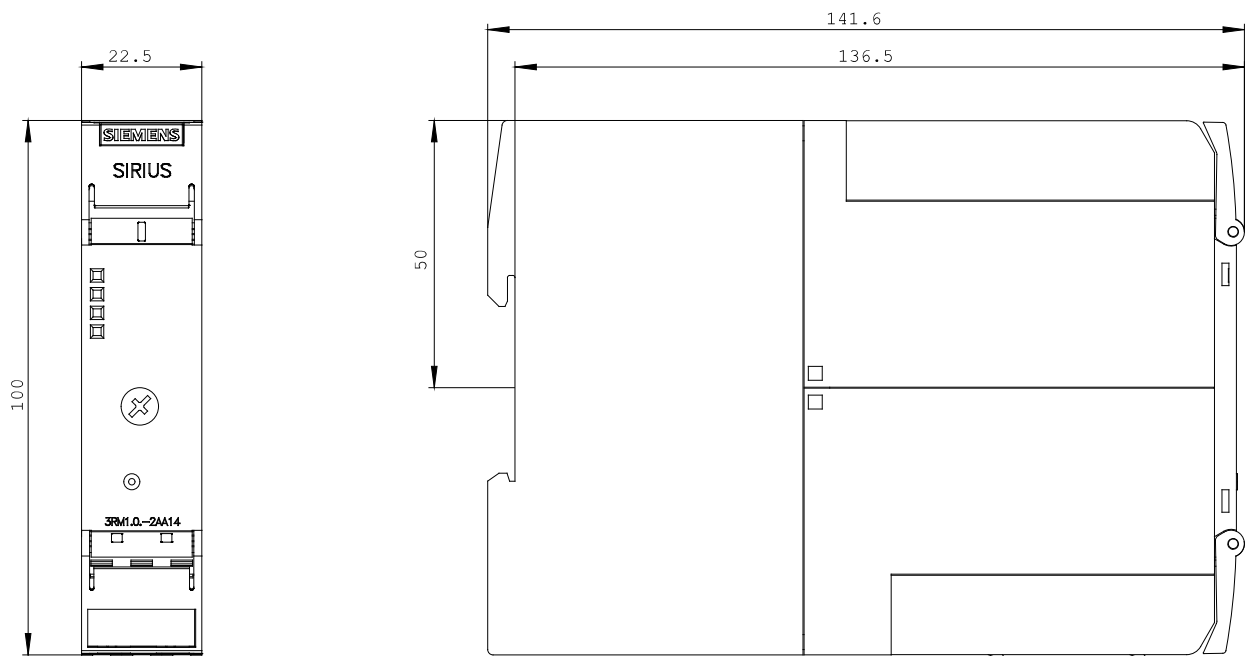
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[Type Test](#)
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Further information:

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

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



last change:

Mar 11, 2013