SIEMENS

Data sheet

3RM1202-1AA14



Reversing starter, 3RM1, 500 V, 0.09 - 0.75 kW, 0.4 - 2 A, 110-230 V AC, screw terminals

product brand name	SIRIUS
product category	Motor starter
product designation	Reversing starter
design of the product	with electronic overload protection
product type designation	3RM1
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	Reversing starter
 intrinsic device protection 	Yes
 for power supply reverse polarity protection 	No
suitability for operation device connector 3ZY12	No
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.1 W
 without load current share typical 	5.06 W
insulation voltage rated value	500 V
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 between main and auxiliary circuit 	500 V
 between control and auxiliary circuit 	250 V
shock resistance	6g / 11 ms
vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
operating frequency maximum	1 1/s
mechanical service life (operating cycles) typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
product function	
direct start	No
reverse starting	Yes
product function short circuit protection	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
 due to burst according to IEC 61000-4-4 	3 kV / 5 kHz
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 KV

• due to high-frequency radiation according to IEC 61000-	10 V
4-6	40.\//m
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
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
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA
adjustable current response value current of the current- dependent overload release	0.4 2 A
minimum load [%]	20 %; from set rated current
type of the motor protection	solid-state
operating voltage rated value	48 500 V
relative symmetrical tolerance of the operating voltage	10 %
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value	60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operational current	
• at AC at 400 V rated value	2 A
• at AC-3 at 400 V rated value	2 A
 at AC-53a at 400 V at ambient temperature 40 °C rated value 	2 A
ampacity when starting maximum	16 A
operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.75 kW
Inputs/ Outputs	
input voltage at digital input	
• at DC rated value	110 V
• with signal <0> at DC	0 40 V
• for signal <1> at DC	79 121
input voltage at digital input	
at AC rated value	110 V
• with signal <0> at AC	040 V
• for signal <1> at AC	93 253 V
input current at digital input	1.5 mA
 for signal <1> at DC with signal <0> at DC 	1.5 mA 0.25 mA
input current at digital input with signal <0> at AC	V.20 IIIA
• at 110 V	0.2 mA
• at 230 V	0.4 mA
input current at digital input for signal <1> at AC	
• at 110 V	1.1 mA
• at 230 V	2.3 mA
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 at 230 V maximum	3 A
operational current of auxiliary contacts at DC-13 at 24 V maximum	1 A
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	110 230 V
• at 60 Hz rated value	110 230 V
relative negative tolerance of the control supply voltage at AC at 60 Hz	15 %

AC at 60 Hz	
control supply voltage 1 at AC	
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
relative negative tolerance of the control supply voltage at DC	15 %
relative positive tolerance of the control supply voltage at DC	10 %
control supply voltage 1 at DC rated value	110 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 50 Hz	0.05
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
control current at AC	
 at 110 V in standby mode of operation 	16 mA
• at 230 V in standby mode of operation	9 mA
• at 110 V when switching on	55 mA
• at 230 V when switching on	33 mA
• at 110 V during operation	36 mA
• at 230 V during operation	22 mA
control current at DC	
 in standby mode of operation 	6 mA
during operation	30 mA
inrush current peak	
• at AC at 110 V	1 200 mA
• at AC at 230 V	2 900 mA
 at AC at 110 V at switching on of motor 	1 200 mA
 at AC at 230 V at switching on of motor 	2 900 mA
duration of inrush current peak	
• at AC at 110 V	1 ms
• at AC at 230 V	1 ms
 at AC at 110 V at switching on of motor 	1 ms
 at AC at 230 V at switching on of motor 	1 ms
power loss [W] in auxiliary and control circuit	
in switching state OFF	
— with bypass circuit	2.1 W
 in switching state ON 	
— with bypass circuit	5.06 W
Response times	
ON-delay time	60 90 ms
OFF-delay time	60 90 ms
Power Electronics	
operational current	
• at 40 °C rated value	2 A
• at 50 °C rated value	2 A
• at 55 °C rated value	2 A
• at 60 °C rated value	2 A
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal, standing (observe derating)
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm

width	22.5 mm		
depth	141.6 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	50 mm		
— downwards	50 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	0 mm		
— backwards	0 mm		
— upwards	50 mm		
— at the side	3.5 mm		
— downwards	50 mm		
Ambient conditions			
installation altitude at height above sea level maximum	4 000 m; For derating see manual		
ambient temperature			
during operation	-25 +60 °C		
during storage	-40 +70 °C		
during transport	-40 +70 °C		
environmental category during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
relative humidity during operation	10 95 %		
air pressure according to SN 31205	900 1 060 hPa		
Communication/ Protocol			
protocol is supported			
PROFINET IO protocol	No		
PROFIsafe protocol	No		
product function bus communication	No		
protocol is supported AS-Interface protocol	No		
Connections/ Terminals			
	screw-type terminals for main circuit, screw-type terminals for control circuit		
type of electrical connection			
type of electrical connection for main current circuit 	screw-type terminals		
for main current circuit	screw-type terminals		
 for main current circuit for auxiliary and control circuit 	screw-type terminals screw-type terminals		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum	screw-type terminals screw-type terminals		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts	screw-type terminals screw-type terminals 100 m		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing connectable conductor cross-section for main contacts	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²)		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 0.5 4 mm ²		
for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded e finely stranded with core end processing	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 0.5 4 mm ²		
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for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded e finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded	screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 0.5 4 mm ² 0.5 4 mm ²		
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— at 460/480 V	/ rated value	0.	75 hp		
operating voltage at AC	rated value	48	80 V		
operational current at	AC at 480 V according	to UL 508 2 /	A		
Certificates/ approvals					
General Product Appre	oval				EMC
		<u>Confirmation</u>		EHC	RCM
Declaration of Conform	nity	Test Certificates	other	Railway	
CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Confirmation	<u>Special Test Certific-</u> <u>ate</u>	

Further Information
Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1202-1AA14

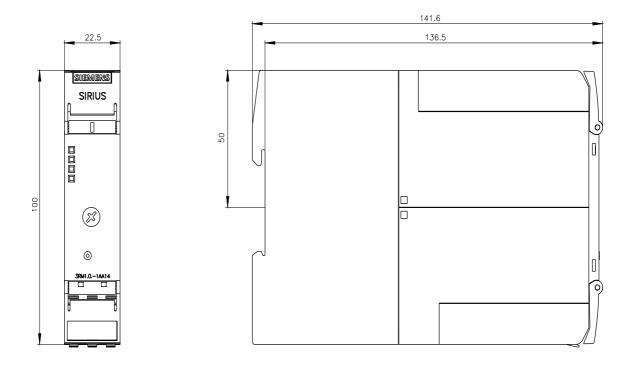
Cax online generator

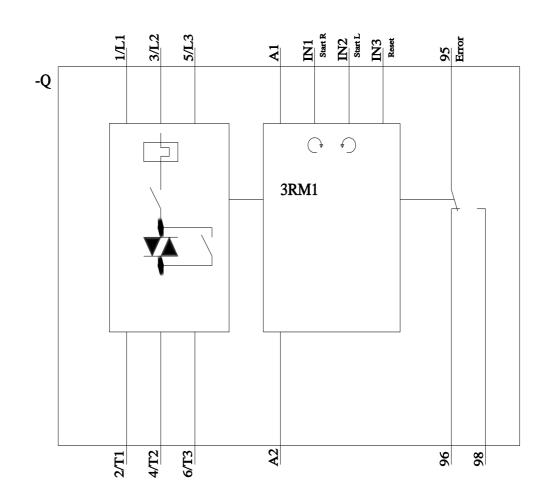
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1202-1AA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RM1202-1AA14

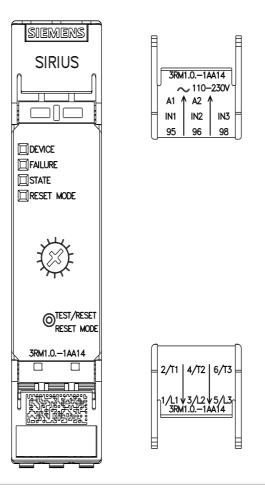
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1202-1AA14&lang=en





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