SIEMENS

Data sheet 3RM1207-1AA04



Reversing starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 24 V DC, 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	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	1.13 W
without load current share typical	1.68 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
operating frequency maximum	1 1/s
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-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 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- 4-6 	10 V

field beard interference according to IEC 64000 4.2	40 V/m
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V/m
conducted HF interference emissions according to CISPR11	4 kV contact discharge / 8 kV air discharge Class B for the domestic, business and commercial environments
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
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	1.6 7 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 	7 A
• at AC-3 at 400 V rated value	7 A
• at AC-53a at 400 V at ambient temperature 40 °C rated value	7 A
ampacity when starting maximum	56 A
operating power for 3-phase motors at 400 V at 50 Hz	0.55 3 kW
derating temperature	40 °C
nputs/ Outputs	
input voltage at digital input	
at DC rated value	24 V
with signal <0> at DC	0 5 V
for signal <1> at DC	15 30
input current at digital input	
• for signal <1> at DC	11 mA
with signal <0> at DC	1 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	DC
type of voltage of the control supply voltage control supply voltage at DC rated value	DC 19.2 30 V
7	
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type of electrical connection • 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 for main circuit, screw-type terminals for control circuit screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)		
 for main current circuit for auxiliary and control circuit screw-type terminals wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 		screw-type terminals for main circuit, screw-type terminals for control 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 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 		
wire length for motor unshielded maximum 100 m type of connectable conductor cross-sections for main contacts ● solid 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) ● finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)		•
type of connectable conductor cross-sections for main contacts • solid 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) • finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)	·	• •
 ◆ solid 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) ◆ finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 		
• finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)		1x (0,5 4 mm²), 2x (0,5 2.5 mm²)

 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
 for AWG cables for auxiliary contacts 	1x (20 14), 2x (18 16)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
 for auxiliary contacts 	20 14
UL/CSA ratings	
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
operational current at AC at 480 V according to UL 508	6.1 A
Certificates/ approvals	

Confirmation

General Product Approval









EMC



Declaration of Con-

formity

Declaration of Conformity

Test Certificates other Railway



Type Test Certificates/Test Report

Confirmation

Special Test Certificate

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RM1207-1AA04

Cax online generator

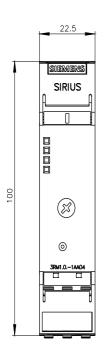
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RM1207-1AA04}$

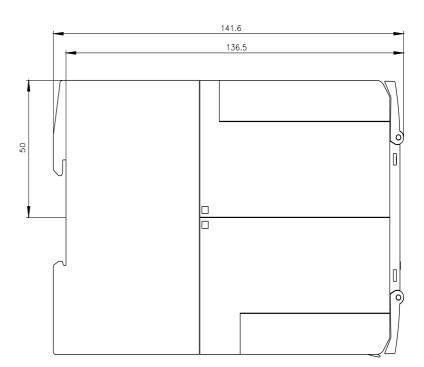
 $Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)$

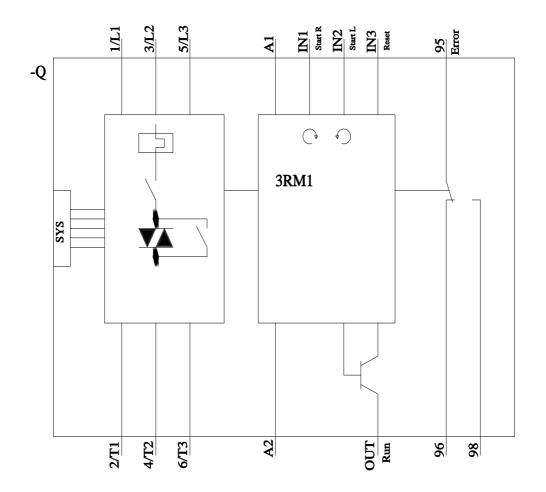
https://support.industry.siemens.com/cs/ww/en/ps/3RM1207-1AA04

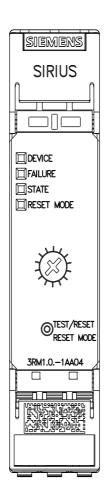
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

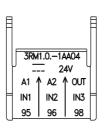
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1207-1AA04&lang=en

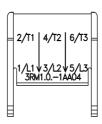












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