SIEMENS

Data sheet 3RM1007-3AA14



direct-on-line starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 110-230 V AC, screw/spring-loaded terminals (push-in)

product brand name	SIRIUS
product category	Motor starter
product designation	Direct-on-line 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	Direct-on-line 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 	1.13 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
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 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
product function	
direct start	Yes
reverse starting	No
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-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	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	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	0 40 V
• for signal <1> at AC	93 253 V
input current at digital input	
for signal <1> at DC	1.5 mA
with signal <0> at DC	0.25 mA
input current at digital input with signal <0> at AC	
• 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	
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control	3 A 1 A
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control type of voltage of the control supply voltage	3 A
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	3 A 1 A AC/DC
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control type of voltage of the control supply voltage	3 A 1 A AC/DC 110 230 V
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	3 A 1 A AC/DC
operational current of auxiliary contacts at DC-13 at 24 V maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	3 A 1 A AC/DC 110 230 V

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	
• 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	- CO
• 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	7 A
at 40 C rated value at 50 °C rated value	6.1 A
at 55 °C rated value at 60 °C rated value	5.2 A
at 60 °C rated value at all times are a second and a second are	4.6 A
nstallation/ 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

denth	141.6 mm
depth required enacing	141.6 mm
required spacing	
with side-by-side mounting	0.000
— 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
protocor is supported A5-interface protocor	110
Connections/ Terminals	
Connections/ Terminals	corous typo terminals for main circuit enring leaded terminals (nuch in) for
type of electrical connection	screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit
type of electrical connection • for main current circuit	control circuit screw-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit	control circuit screw-type terminals spring-loaded terminals (push-in)
type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum	control circuit screw-type terminals
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	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m
type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
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	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m
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 connectable conductor cross-section for main contacts	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
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	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm²
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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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm²
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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm²
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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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 1x (0.5 1.5 mm² 0.5 1.5 mm² 0.5 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 (0,5 1.5 mm²), 2x (0.5 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 (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts ULI/CSA ratings	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 1x (0.5 1.5 mm² 0.5 1.5 mm² 0.5 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 (0,5 1.5 mm²), 2x (0.5 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 (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp]	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,6 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,6 mm²)
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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 1x (0.5 1.5 mm² 1x (0.5 1.5 mm² 1x (0.5 1.5 mm²) 1x (0.5 1.5 mm² 1x (0.5 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)
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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp]	control circuit screw-type terminals spring-loaded terminals (push-in) 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,5 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,6 mm²) 1x (0,5 1,6 mm²), 2x (0,5 1,6 mm²)

• for 3-phase AC motor

- at 200/208 V rated value

- at 220/230 V rated value

- at 460/480 V rated value

1 hp 1.5 hp 3 hp

operational current at AC at 480 V according to UL 508 6.1 A

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

other



Confirmation

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=3RM1007-3AA14

Cax online generator

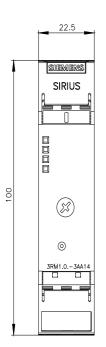
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1007-3AA14

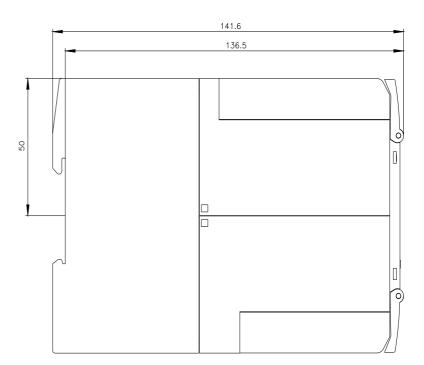
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

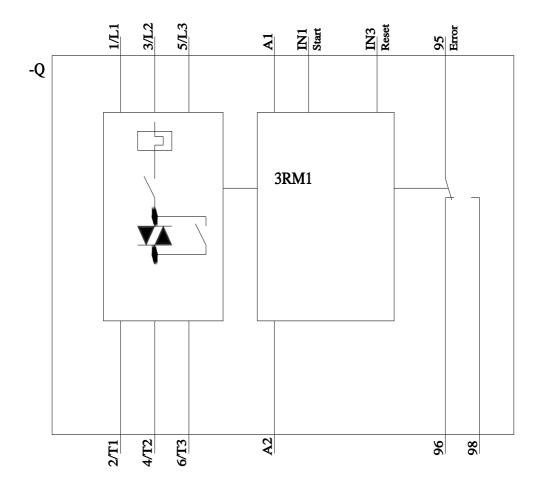
https://support.industry.siemens.com/cs/ww/en/ps/3RM1007-3AA14

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

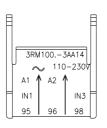
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1007-3AA14&lang=en

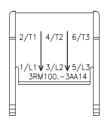












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