## **SIEMENS**

Data sheet 3RM1007-2AA14



direct-on-line starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 110-230 V AC, spring-loaded terminal (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		
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz	
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV	
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV	
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V	

field-based interference according to IEC 610004-3 conducted HF Interference emissions according to CISPR11 CISPR11 CISPR11 CISPR11 CISPR11 CISPR12 CIPRR14 CIPRR14 CIPRR14 CIPRR14 CIPRR14 CIPRR15 CIPRR15 CIPRR15 CIPRR15 CIPRR15 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR16 CIPRR17 CIPRR16 CIPRR17 CIPRR16 CIPRR17 C	field-based interference according to IEC 64000 4.2	10 V/m
conducted HF Interference emissions according to ICISPR*11         Class B for domestic, business and commercial environments; Class A for industrial environments at 11 of V DC           EIRSPR*11         Class B for domestic, business and commercial environments; Class A for industrial environments at 11 of V DC           Entry related data         IP2           Protection class IP on the front according to IEC 60529         Images and secondary class A Commercial environments; Class A for industrial environments at 11 of V DC           Interference on the front according to IEC 60529         IP2           Interference on the front according to IEC 60529         IP2           design of the switching contact as NO contact for signaling of the switching contact as NO contact for signaling and class and product of violation of the switching contact as NO contact for signaling and class and product of violation of the switching contact as NO contact for signaling and product of violation and violation and product of violatio		
Selection   Feat   Interference emission according to CISPNT   Class if for domestic, business and commercial environments; Class A for including a commercial environments; Class A	conducted HF interference emissions according to	Class B for domestic, business and commercial environments; Class A for
P20		Class B for domestic, business and commercial environments; Class A for
Institution	Safety related data	
April Curtosis   Sacratic   Sac	protection class IP on the front according to IEC 60529	IP20
number of poles for main current circuit   4   49cin   49cin   4   49cin   49cin   4   4   4   4   4   4   4   4   4	touch protection on the front according to IEC 60529	finger-safe
Mighigan	Main circuit	
	number of poles for main current circuit	3
function   adjustable current response value current of the current dependent overload release   specified for motor protection	design of the switching contact	Hybrid
dependent overload rolease minimum load [½]         20 %, from set rated current           type of the motor protection         solid-state           operating voltage rated value         48500 V           relative symmetrical tolorance of the operating voltage         50 ½           operating frequency 1 rated value         50 ½           operating frequency 2 rated value         60 ½           operating frequency 1 rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         7 A           • at AC-3 at 400 V rated value         10 %           • at AC-3 at 400 V rated value         10 %           • by Corporation         10 %           • by State of Value         110 V           • vith signal <0 at DC		OUT, electronic, 24 V DC, 15 mA
Spee of the motor protection   Solid-state   Operating voitage rated value		1.6 7 A
operating voltage rated value	minimum load [%]	20 %; from set rated current
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value 50 Hz 60 Hz 70 Hz 7 A	type of the motor protection	solid-state
So Hz	operating voltage rated value	48 500 V
operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current	relative symmetrical tolerance of the operating voltage	10 %
relative symmetrical tolerance of the operating frequency operational current  • at AC 44 040 v rated value • at AC-3 at 400 V rated value • at AC-35 at 400 V rated value • at AC-53 at 400 V rated value • at AC-53 at 400 V rated value • at AC-53 at 400 V at ambient temperature 40 °C rated value  ampacity when starting maximum 56 A operating power for 3-phase motors at 400 V at 50 Hz 40 °C  ampacity Outputs  input voltage at digital input • at DC acreated value • with signal <0> at DC • for signal <1> at DC • for signal <1> at DC • for signal <1> at DC • or signal <1> at DC • with signal <0> at DC • at 110 V • at 230 V  number of CO contacts for auxiliary contacts  1 coperational current of auxiliary contacts  2 and  operational current of auxiliary contacts at AC-15 at 230 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V waximum  operational current of auxiliary contacts at DC-13 at 24 V at CC • at 60 Hz rated value	operating frequency 1 rated value	50 Hz
A C at 40 0 V rated value	operating frequency 2 rated value	
	relative symmetrical tolerance of the operating frequency	10 %
	operational current	
* at AC-53a at 400 V at ambient temperature 40 °C rated value  ampacity when starting maximum 56 A  operating power for 3-phase motors at 400 V at 50 Hz derating temperature 40 °C  opputs/ Outputs  input voltage at digital input • at DC rated value • with signal <0 at DC • or signal <1 at DC • or signal <1 at AC • for signal <1		
value	<ul><li>at AC-3 at 400 V rated value</li></ul>	7 A
operating power for 3-phase motors at 400 ∨ at 50 Hz	·	7 A
derating temperature  pouts/  input voltage at digital input  • at DC rated value • with signal <0> at DC • for signal <1> at DC • for signal <1> at DC • for signal <0> at AC • for signal <1> at AC • with signal <0> at AC • with signal <0> at DC • at 110 V • at 230 V • at 30 V • at 230	ampacity when starting maximum	56 A
Input voltage at digital input  • at DC rated value • with signal <0> at DC • for signal <1> at DC • for signal <1> at DC • for signal <1> at DC • with signal <0> at DC • for signal <1> at DC • for signal <1> at DC • with signal <0> at AC • for signal <1> at AC • with signal <0> at AC • with signal <0> at AC • with signal <0> at DC • at 110 V • at 230 V • at 2	operating power for 3-phase motors at 400 V at 50 Hz	
input voltage at digital input  • at DC rated value • with signal <0> at DC • for signal <1> at AC • at Crated value • with signal <0> at AC • for signal <1> at DC • with signal <0> at AC • with signal <0> at AC • with signal <0> at DC • at 110 V • at 230 V • at 30 V • at 50 Hz rated value • at 60 Hz rated value		40 °C
at DC rated value     with signal <0> at DC     for signal <1> at DC     for signal <1> at DC     for signal <1> at DC     input voltage at digital input     at AC rated value     with signal <0> at AC     input current at digital input     input current at digital input     input current at digital input     if or signal <1> at DC     input current at digital input     input current at DC     input current at DC     input current at digital input with signal <0> at DC     input current at digital input with signal <0> at DC     input current at digital input with signal <0> at DC     input current at digital input with signal <0> at DC     input current at digital input for signal <1> at DC     input current at digital input for signal <1> at AC     input current at digital input for signal <1> at AC     input current at digital input for signal <1> at AC     input current at digital input for signal <1> at AC     input current at digital input for signal <1> at AC     input current of input current of signal <1> at AC     input current of input current of signal <1> at AC     input current of input current of auxiliary contacts     input current of input current of auxiliary contacts     input current of input current of auxiliary contacts     input current of input cur	nputs/ Outputs	
with signal <1> at DC     for signal <1> at DC     79 121  input voltage at digital input     at AC rated value     with signal <0> at AC     for signal <1> at AC     with signal <0> at AC     for signal <1> at AC     for signal <1> at AC	input voltage at digital input	
input voltage at digital input  at AC rated value  with signal <0> at AC  for signal <1> at AC  for signal <1> at AC  of right outrent at digital input  for signal <1> at DC  with signal <0> at DC  with signal <0> at DC  owith signal <0> at AC  owith signal <0  owith signa	<u> </u>	
at AC rated value with signal <0> at AC of risignal <1> at DC with signal <0> at DC owith signal <0> at AC owith signal <1> at AC owith signal <1 owith signal		79 121
with signal <0> at AC     of or signal <1> at AC     of or signal <1> at AC     of signal <1> at DC     of signal <1> at DC     of signal <0> at AC     of signal <0> at		
• for signal <1> at AC  input current at digital input  • for signal <1> at DC  • with signal <0> at DC  • with signal <0> at DC  • at 110 V  • at 230 V  input current at digital input with signal <0> at AC  • at 110 V  • at 230 V  input current at digital input for signal <1> at AC  • at 110 V  • at 230 V  1.1 mA  • at 230 V  1.2.3 mA  number of CO contacts for auxiliary contacts  1  operational current of auxiliary contacts at AC-15 at 230 V  maximum  control circuit/ Control  type of voltage of the control supply voltage  • at 50 Hz rated value  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC  • at 60 Hz  relative negative tolerance of the control supply voltage at AC  to the control supply voltage at AC  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz		
input current at digital input  • 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  • at 110 V  • at 230 V  0.4 mA  input current at digital input for signal <1> at AC  • at 110 V  • at 230 V  1.1 mA  • at 230 V  1.1 mA  • at 230 V  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  1 A  1 A  1 D  1 D  1 D  1 D  1 D  1 D	•	
• for signal <1> at DC • with signal <0> at DC  0.25 mA  input current at digital input with signal <0> at AC • at 110 V • at 230 V 0.4 mA  input current at digital input for signal <1> at AC • at 110 V • at 230 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  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  operational current of auxiliary contacts at DC-13 at 24 V	•	93 253 V
with signal <0> at DC  input current at digital input with signal <0> at AC      at 110 V     o.2 mA     o.4 mA  input current at digital input for signal <1> at AC      at 110 V     o.1 mA  input current at digital input for signal <1> at AC      at 110 V     o.1 mA      at 230 V     1.1 mA     o.1 mA      o.2 mA  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  control circuit/ Control  type of voltage of the control supply voltage      at 50 Hz rated value     o.1 m. 230 V  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz		4.5 \
input current at digital input with signal <0> at AC  • at 110 V • at 230 V  input current at digital input for signal <1> at AC  • at 110 V • at 230 V  1.1 mA • at 230 V  2.3 mA  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  control circuit/ Control  type of voltage of the control supply voltage  at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC  relative negative tolerance of the control supply voltage at AC at 60 Hz		
at 110 V at 230 V  input current at digital input for signal <1> at AC  at 110 V at 230 V  1.1 mA at 230 V  2.3 mA  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V maximum  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  type of voltage of the control supply voltage  at 50 Hz rated value at 60 Hz rated value  110 230 V  relative negative tolerance of the control supply voltage at AC at 60 Hz  at 230 V  15 %		AIII 62.U
at 230 V  input current at digital input for signal <1> at AC  at 110 V  at 230 V  2.3 mA  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V  maximum  operational current of auxiliary contacts at DC-13 at 24 V  maximum  control circuit/ Control  type of voltage of the control supply voltage  at 50 Hz rated value  at 60 Hz rated value  at 60 Hz  relative negative tolerance of the control supply voltage at AC  relative negative tolerance of the control supply voltage at AC at 60 Hz  at 230 V  1.1 mA  1.1 mA  1.230 V  1.4  AC/DC		0.2 m/s
input current at digital input for signal <1> at AC  at 110 V  at 230 V  1.1 mA  2.3 mA  number of CO contacts for auxiliary contacts  1  operational current of auxiliary contacts at AC-15 at 230 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  Control circuit/ Control  type of voltage of the control supply voltage  at 50 Hz rated value  at 60 Hz rated value  110 230 V  relative negative tolerance of the control supply voltage at AC  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz		
at 110 V at 230 V  number of CO contacts for auxiliary contacts  poperational current of auxiliary contacts at AC-15 at 230 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  Control circuit/ Control  type of voltage of the control supply voltage  at 50 Hz rated value at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz  1.1 mA 2.3 mA  1.4 mA 2.3 mA  A C at 60 Hz  1.1 mA 2.3 mA  1.2 mA  1.3 mA  1.4 mA 2.3 mA  1.4 maximum  1.5 maximum  1.1 mA 2.3 mA  1.1 ma 2.3 m		0.4 IIIA
at 230 V     number of CO contacts for auxiliary contacts     operational current of auxiliary contacts at AC-15 at 230 V     maximum  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     at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz  2.3 mA  A Cat 60 Hz		1.1 mΔ
number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 230 V maximum  operational current of auxiliary contacts at DC-13 at 24 V maximum  Control circuit/ Control  type of voltage of the control supply voltage  AC/DC  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz		
operational current of auxiliary contacts at AC-15 at 230 V maximum  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  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz  15 %		
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  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz  15 %	operational current of auxiliary contacts at AC-15 at 230 V	
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz	operational current of auxiliary contacts at DC-13 at 24 V	1 A
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  110 230 V  relative negative tolerance of the control supply voltage at AC at 60 Hz		
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  110 230 V  relative negative tolerance of the control supply voltage at AC at 60 Hz		AOIDO
at 50 Hz rated value     at 60 Hz rated value     110 230 V  relative negative tolerance of the control supply voltage at AC at 60 Hz  15 %		AC/DC
• at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 60 Hz  110 230 V  15 %		440 000 V
relative negative tolerance of the control supply voltage at AC at 60 Hz		
	relative negative tolerance of the control supply voltage at	
AC at 60 Hz	AL 30 MU N7	

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
<ul> <li>at 230 V in standby mode of operation</li> </ul>	9 mA
<ul> <li>at 110 V when switching on</li> </ul>	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 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

depth	141.6 mm			
·	ווווו ט.ו דו			
required spacing  • with side-by-side mounting				
, and a	0			
— 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				
<ul> <li>during operation</li> </ul>	-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				
Connections/ Terminals type of electrical connection	spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit			
type of electrical connection	(push-in) for control circuit			
type of electrical connection  • for main current circuit	(push-in) for control circuit spring-loaded terminals (push-in)			
type of electrical connection              for main current circuit             for auxiliary and control circuit	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)			
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         wire length for motor unshielded maximum	(push-in) for control circuit spring-loaded terminals (push-in) 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)			
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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (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         • finely stranded without core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (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         • finely stranded without core end processing         connectable conductor cross-section for main contacts	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (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             • finely stranded without core end processing             connectable conductor cross-section for main contacts             • solid or stranded	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  0.5 1.5 mm²  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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing  type of connectable conductor cross-sections • for auxiliary contacts — solid	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 4 mm²  1x (0.5 4 mm²  1x (0.5 1.5 mm²  1x (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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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  type of connectable conductor cross-sections • for auxiliary contacts  - solid - finely stranded with core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 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)			
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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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 with core end processing — finely stranded with core end processing — finely stranded without core end processing	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 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) 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 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)			
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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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 • 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  1x (0.5 4 mm²  1x (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), 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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 • 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)  100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  1x (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), 2x (0.5 1.5 mm²) 1x (0.5 1.6 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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 • 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  1x (0.5 4 mm²  1x (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), 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing • finely stranded without 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  IUL/CSA ratings	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)  100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm² 0.5 2.5 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), 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 • finely stranded without core end processing  connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without 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 • 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	(push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)  100 m  1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 4 mm²)  0.5 4 mm² 0.5 2.5 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), 2x (0.5 1.5 mm²)			

— 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

General Product Approval EMC Declaration of Conformity

Confirmation











Declaration of Conformity	Test Certificates	other	Railway
	Tuna Took Contific	Confirmation	Coord Took Codific



Type Test Certificates/Test Report

Confirmation

Special Test Certificate

## 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=3RM1007-2AA14

Cax online generator

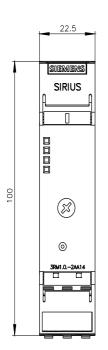
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RM1007-2AA14}}$ 

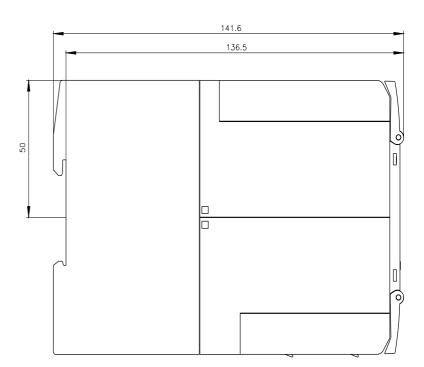
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

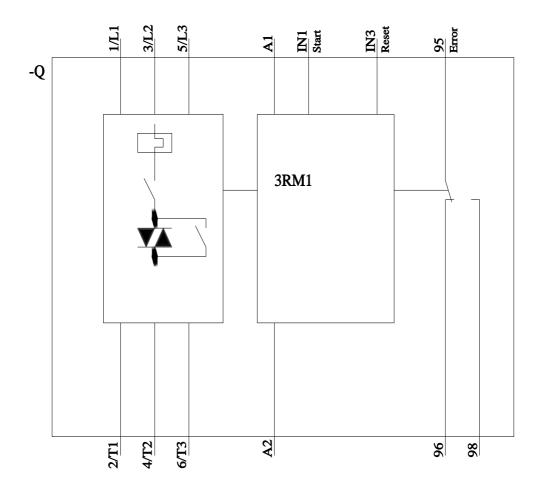
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RM1007-2AA14}$ 

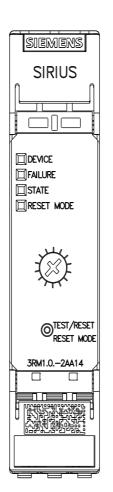
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

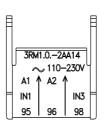
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RM1007-2AA14&lang=en

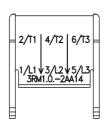












last modified: 8/15/2023 🖸