SIEMENS

Data sheet

3RM1007-1AA14



Direct starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 110-230 V AC, screw terminals

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			
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 	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	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 50 Hz rated valueat 60 Hz rated value	110 230 V 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	
• 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 50 °C rated value	6.1 A
• at 55 °C rated value	5.2 A
• at 60 °C rated value	4.6 A
Installation/ mounting/ dimensions	T.U.A.
	vortical horizontal standing (shaap a deration)
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

dopth	141.6 mm		
depth			
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	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
60721 relative humidity during operation	(sand must not get into the devices), 3M6 10 95 %		
air pressure according to SN 31205	900 1 060 hPa		
Communication/ Protocol			
protocol is supported	No		
PROFINET IO protocol			
PROFIsafe protocol	No		
product function bus communication	No		
protocol is supported AS-Interface protocol	No		
Connections/ Terminals			
type of electrical connection	screw-type terminals for main circuit, screw-type terminals for control circuit		
for main current circuit	screw-type terminals		
• for auxiliary and control circuit	screw-type terminals		
for auxiliary and control circuit wire length for motor unshielded maximum			
for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts	screw-type terminals 100 m		
for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid	screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts	screw-type terminals 100 m		
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 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 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 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 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	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 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 main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	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		
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	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 0.5 2.5 mm ²		
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	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		
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 e finely stranded with core end processing tops and the core end processing connectable conductor cross-section for auxiliary contacts solid or stranded e finely stranded with core end processing type of connectable conductor cross-sections	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 0.5 2.5 mm ²		
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	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 0.5 2.5 mm ²		
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 solid or	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 0.5 2.5 mm ²		
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 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 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 type of connectable conductor cross-sections for auxiliary contacts for auxiliary contacts – solid – finely stranded with core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 	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 0.5 2.5 mm ² 1x (0,5 2,5 mm ²), 2x (1,0 1,5 mm ²) 1x (0.5 2,5 mm ²), 2x (0.5 1 mm ²) 1x (20 14), 2x (18 16)		
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 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 type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts goid 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 for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value de at 230 V rated	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 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (0,5 2,5 mm ²), 2x (1,0 1,5 mm ²) 1x (0.5 2,5 mm ²), 2x (0,5 1 mm ²) 1x (20 14), 2x (18 16) 20 12 20 14 0.25 hp		

— at 460/480 V rated value		3 hp			
•	AC at 480 V according	to UL 508	6.1 A		
Certificates/ approvals					
General Product Appr	roval			EMC	Declaration of Con- formity
<u>Confirmation</u>			EHC	RCM	UK CA
Declaration of Con- formity	Test Certificates	other	Railway		
CE	Type Test Certific- ates/Test Report	Confirmation	<u>Special Test Certific-</u> <u>ate</u>		
EG-Konf.					
Further information					
	to exit the Russian mar		n russian husiness		
Siemens is working or Please contact your loca	n the renewal of the cur	rent EAC certificate	es. The EAC certification if you interv	d to import or offer to su	upply these products to an
Information on the pac	c <mark>kaging</mark> siemens.com/cs/ww/en/v	ow/100912975			
	nloadcenter (Catalogs, I				

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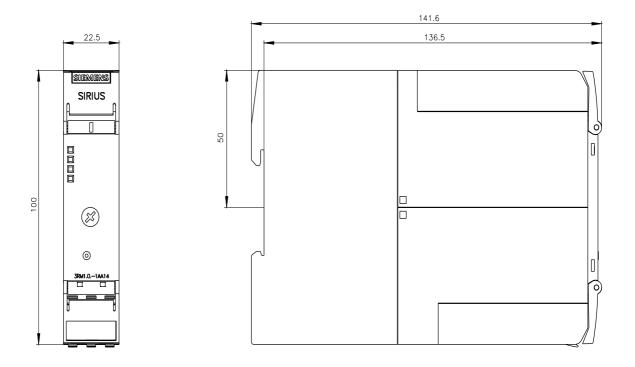
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1007-1AA14

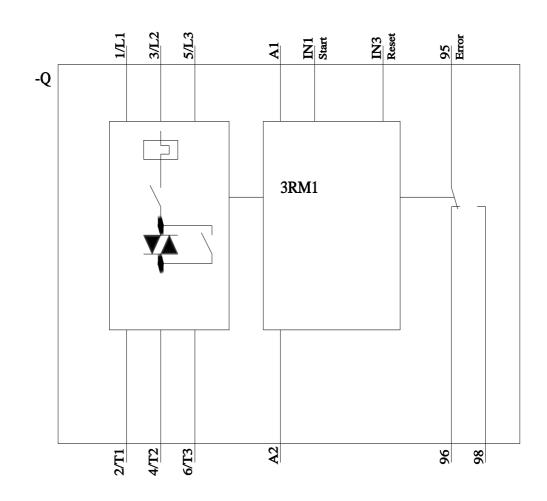
Cax online generator

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RM1007-1AA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1007-1AA14&lang=en

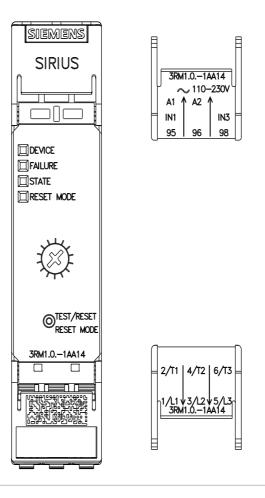




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