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 tanagenySIRUSproduct categoryMotor staterproduct categoryMotor staterdesignationDirect-on-line staterproduct toginationRMIproduct toginationRMIcontrol topic				
product designation Direct-on-line starter design of the product with electronic overfoad 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 No • of power supply reverse polarly protection No power loss (W) for rated value of the current 1.13 W • at AC in hot operating diste per pole 1.13 W • without load current share typical 5.06 W insultability for protection and auxiliary circuit 500 V • overvoitage category III surge voitage resistance rated value 6k V maximum permissible voitage for protective separation 6k V • between main and auxiliary circuit 250 V shock resistance 16 kJz 15 mm: 20 m/s ² , 500 Hz operating frequency maximum 1 1/s reference code according to IEC 81348-2 O Substance Prohibitance (Date) 0301/2017 SyNG substance name Lead 7.439-92-1 Lead resist	product brand name	SIRIUS		
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due to high-frequency radiation according to IEC 61000- 10 V		1 KV		
	 due to high-frequency radiation according to IEC 61000- 	10 V		

4-6 10 V/m field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 4 KV contact discharge / 8 kV air discharge conducted HF interference emissions according to CISPR11 Class B for domestic, business and commercial environments; Class Industrial environments at 110 V DC Electrical Safety	
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derating temperature 40 °C Inputs/ Outputs 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 3 A maximum	
operational current of auxiliary contacts at DC-13 at 24 V 1 A naximum	
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 value 110 230 V	

AC at 60 Hz	
control supply voltage 1 at AC	
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
relative negative tolerance of the control supply voltage at DC	15 %
relative positive tolerance of the control supply voltage at DC	10 %
control supply voltage 1 at DC rated value	110 V
operating range factor control supply voltage rated value at DC	
● initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 50 Hz	
 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 control current at AC	1.1
	16 mA
at 110 V in standby mode of operation	9 mA
at 230 V in standby mode of operation	55 mA
at 110 V when switching on	33 mA
at 230 V when switching on a at 140 V during operation	36 mA
at 110 V during operation	22 mA
at 230 V during operation Control current at DC	22 IIIA
• 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	
mounting position	vertical, horizontal, standing (observe derating)
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm

width	22.5 mm		
depth	141.6 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	50 mm		
— downwards	50 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	0 mm		
— backwards	0 mm		
— upwards	50 mm		
— at the side	3.5 mm		
— downwards	50 mm		
Ambient conditions			
installation altitude at height above sea level maximum	4 000 m; For derating see manual		
ambient temperature			
during operation	-25 +60 °C		
during storage	-40 +70 °C		
during transport	-40 +70 °C		
environmental category during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
relative humidity during operation	10 95 %		
air pressure according to SN 31205	900 1 060 hPa		
Communication/ Protocol			
protocol is supported			
PROFINET IO protocol	No		
PROFIsafe protocol	No		
product function bus communication	No		
protocol is supported AS-Interface protocol			
protocol is supported AS-Interface protocol Connections/ Terminals	INU		
Connections/ Terminals			
	screw-type terminals for main circuit, screw-type terminals for control circuit		
Connections/ Terminals type of electrical connection			
Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals		
Connections/ Terminals type of electrical connection of or main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals 100 m		
Connections/ Terminals type of electrical connection of for main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts o solid	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
Connections/ 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 solid finely stranded with core end processing	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
Connections/ 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 solid finely stranded with core end processing connectable conductor cross-section for main contacts	screw-type terminals for main circuit, screw-type terminals for control circuit 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)		
Connections/ Terminals type of electrical connection of or main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts of solid finely stranded with core end processing connectable conductor cross-section for main contacts of solid or stranded	screw-type terminals for main circuit, screw-type terminals for control circuit 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		
Connections/ 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 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 section for auxiliary contacts solid or stranded	screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals screw-type terminals 100 m 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 0.5 4 mm ² 0.5 4 mm ²		
Connections/ Terminals type of electrical connection of or main current circuit for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts osolid finely stranded with core end processing connectable conductor cross-section for main contacts osolid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts osolid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts osolid or stranded 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 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 0.5 4 mm ² 0.5 4 mm ²		
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Connections/ 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 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 connectable conductor cross-sections finely stranded with core end processing connectable conductor cross-sections solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid	screw-type terminals for main circuit, screw-type terminals for control circuit 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 1x (0,5 2,5 mm ²) 1x (0,5 2,5 mm ²), 2x (1,0 1,5 mm ²)		
Connections/ 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 • 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 - 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 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 (1,0 1,5 mm ²) 1x (0,5 2,5 mm ²), 2x (0,5 1 mm ²)		
Connections/ 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 • 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 • for AWG cables for auxiliary contacts	screw-type terminals for main circuit, screw-type terminals for control circuit 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 1x (0,5 2,5 mm ²) 1x (0,5 2,5 mm ²), 2x (1,0 1,5 mm ²)		
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Connections/ 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 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 solid or stranded for auxiliary contacts solid	screw-type terminals for main circuit, screw-type terminals for control circuit 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 (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)		
Connections/ 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 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 connectable conductor cross-sections for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts AWG number as coded connectable conductor cross for auxiliary contacts for auxiliary c	screw-type terminals for main circuit, screw-type terminals for control circuit 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 (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)		
Connections/ 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 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 connectable conductor cross-sections for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts AWG number as coded connectable conductor cross for auxiliary contacts for auxiliary c	screw-type terminals for main circuit, screw-type terminals for control circuit 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 (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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Connections/ 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 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 connectable conductor cross-sections for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts AWG number as coded connectable conductor cross for auxiliary contacts for auxiliary c	screw-type terminals for main circuit, screw-type terminals for control circuit 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		
Connections/ 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 • 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-sections 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 • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	screw-type terminals for main circuit, screw-type terminals for control circuit 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		
Connections/ 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 solid finely stranded with core end processing connectable conductor cross-section for main contacts	screw-type terminals for main circuit, screw-type terminals for control circuit 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		
Connections/ 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 • 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-sections 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 • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	screw-type terminals for main circuit, screw-type terminals for control circuit 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		

at 220/230 at 460/480 operational current at Approvals Certificates General Product App	V rated value t AC at 480 V according		1.5 hp 3 hp 6.1 A	_	
<u>Confirmation</u>	UK CA	CE EG-Konf.		(UL) III	EHC
EMV	Test Certificates	other	Railway	Environment	
RCM	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmation</u>	Special Test Certific- ate	Environmental Con- firmations	

Further information

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=3RM1007-1AA14

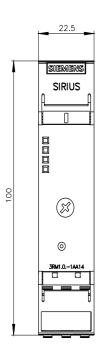
Cax online generator

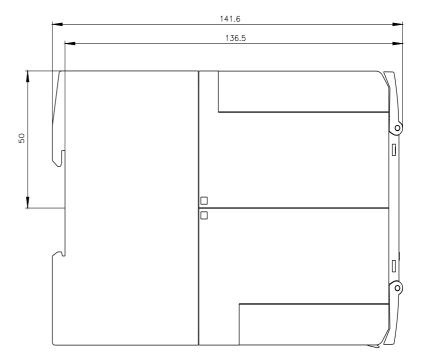
 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3RM1007-1AA14$

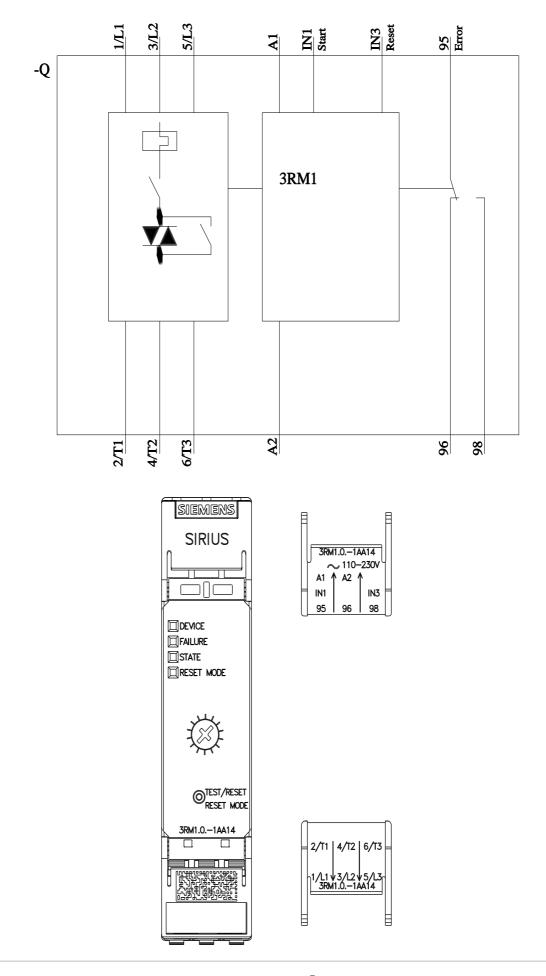
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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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3/11/2024 🖸

9/21/2024

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