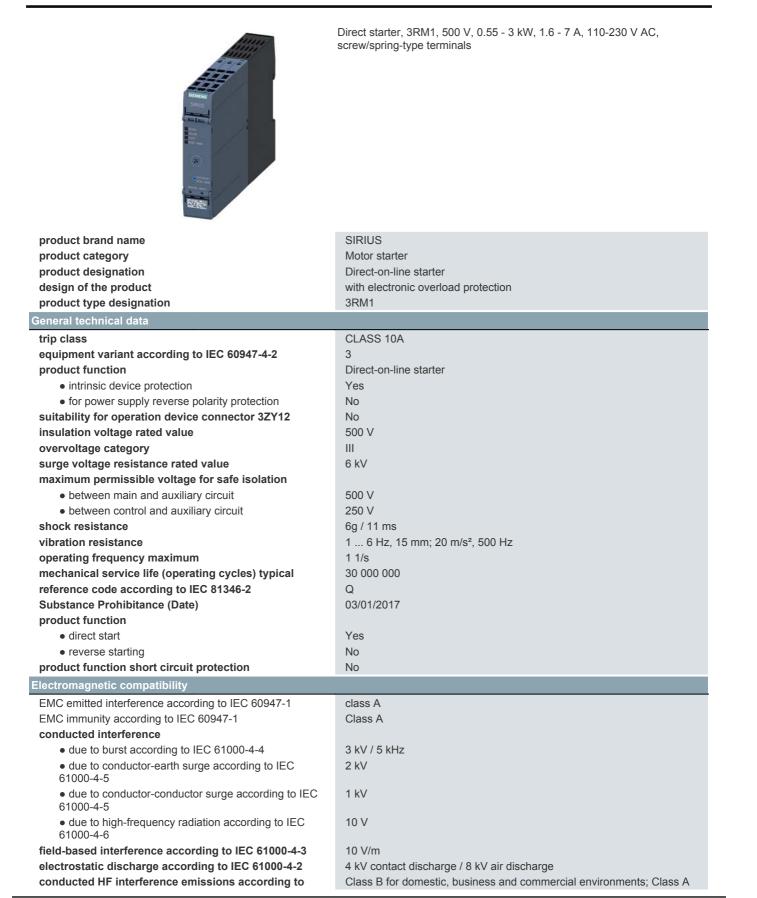
SIEMENS

Data sheet

3RM1007-3AA14



CISPR11	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	IP20				
60529					
touch protection on the front according to IEC 60529	finger-safe				
Main circuit					
number of poles for main current circuit design of the switching contact	3 Hybrid				
design of the switching contact as NO contact for	OUT, electronic, 24 V DC, 15 mA				
signaling function					
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	10 %				
frequency					
operational current	7.4				
at AC at 400 V rated value	7 A 7 A				
• at AC-3 at 400 V rated value	7 A 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 input current at digital input 	93 253 V				
• 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 60 Hz rated value	110 230 V				
relative negative tolerance of the control supply voltage at AC at 60 Hz	15 %				
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %				
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	
 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	16 m/
 at 110 V in standby mode of operation at 230 V in standby mode of operation 	16 mA 9 mA
 at 250 V in standby mode of operation at 110 V when switching on 	55 mA
 at 110 V when switching on at 230 V when switching on 	33 mA
 at 200 V when switching on 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	2.1 W
 — with bypass circuit • in switching state ON 	2.1 W
- with bypass circuit	5.06 W
Response times	
	60 90 ms
ON-delay time OFF-delay time	60 90 ms
Power Electronics	00 00 m3
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	23 mm
depth	142 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm

- backwards - backwards - downwards - downwards - downwards - downwards - downwards - downwards - of the side - of					
devineda devineda devineda forverda beckwards beckwards beckwards beckwards beckwards beckwards beckwards devineda 	— backwards	0 mm			
- at the side of man of the side of the si	— upwards	50 mm			
• for grounded parts • for grounded parts • or grounded parts • or grounded parts • backwards • or main of the state of	— downwards	50 mm			
	— at the side	0 mm			
backwards upwards upwards with exide					
		0 mm			
	— backwards				
- downwards 50 mm Ambiant conditions Installation allitude at height above sea level maximum miscle too allitude at height above sea level maximum 4 000 m; For derating see manual adving storage - 40,+70 °C - during storage - 40,+70 °C - during transpot - 40,+70 °C - for all guard control orcuit - 60,+70 °C - for main contractio	— upwards				
Ambient conditions 4 000 m; For derating see manual Installation attrude at height above sea level maximum 4 000 m; For derating see manual • during storage		4 mm			
Installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature - 40 m; storage - during storage - 40 m; +70 °C - during transpott - 40 m; +70 °C environmental category during operation according to ECC - 40 m; +70 °C off protecol - 98 % off protecol - 90 munification, only occasional condensation), 3C3 (no sait off protecol - 98 % opposite in protect - 98 % opposite in protecol - 98 % opposite in protect - 98 % opposite in protecol No opposite is supported - 98 % of or main current circuit - 80 % of or main current circuit - sorder-type terminals of or auxilary and control circuit - sorder-type terminals of or main contracts - sold or stranded of auxilary contacts - sold or stranded of a auxilary contacts - 10 mm² of auxilary contacts - 50 minifie		50 mm			
ambient temparature	Ambient conditions				
 during joeration during transport during transport	installation altitude at height above sea level maximum	4 000 m; For derating see manual			
 during transport during transport	ambient temperature				
• during transport -40 + 70 °C environmental category during operation according to ICE 3K6 (no. casional condensation), 3C3 (no sait mat), 332 (sand must not get into the devices), 3M6 irrelative humidity during operation according to ICE 3K6 (no. casional condensation), 3C3 (no sait mat), 332 (sand must not get into the devices), 3M6 irrelative humidity during operation 00 1000 IPB Communication/ Protocol No • PROFisafe protocol No • PROFisafe protocol No • protocit in bus communication No protocit of the communication No • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for main current circuit screw-type terminals • for main current circuit screw-type terminals • for main contacts and noild 1x (0, 5 4 mm ²), 2x (0, 5 2, 5 mm ²) • for main contacts 100 m • for main contacts 0, 5 4 mm ² • for main contacts 0, 1 4 mm ² • for auxiliary and core and processing 0, 5 4 mm ² • for auxiliary contacts 0, 5 4 mm ² • for auxiliary contacts 0, 5 1, 5 mm ³ • for auxiliary contacts 0, 5 1, 5 mm ³ • for auxiliary					
environmental category during operation according to IEC 6721 relative humidity during operation air pressure according to SN 31205 900 1 060 hPa Communication/Protocol PROFIsafe protocol PROFIsafe protocol PROFIsafe protocol Protocol is supported PROFIsafe protocol Protocol is supported AS-interface protocol No Protocol is supported AS-interface protocol No No Protocol is supported AS-interface No No Protocol is supported AS-interface No No No Protocol is supported AS-interface No No No Protocol is supported AS-interface No No No No Protocol is supported AS-interface No No No Protocol is supported AS-interface No No No No No No Protocol is supported AS-interface No No No No No Protocol is supported AS-interface No No No No No Protocol is supported AS-interface No No No No No No No No No No					
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Connections/Terminals type of electrical connection • for main current circuit • for availiary and control circuit • for availiary and control circuit • for availiary and control circuit • for main current circuit • for availiary and control circuit • for main contacts - solid - finely stranded with core end processing • at AWG cables for main contacts • olid or stranded • finely stranded with core end processing • finely stranded with core end processing </td <td>product function bus communication</td> <td>No</td>	product function bus communication	No			
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type of connectable conductor cross-sections for main contacts - solid finely stranded with core end processing tx (0,5 4 mm³), 2x (0,5 2,5 mm³) tx (0,5 4 mm³), 2x (0,5 1,5 mm²) tx (20 12), 2x (20 14) connectable conductor cross-section for main contacts solid or stranded 0,5 4 mm² connectable conductor cross-section for auxiliary contacts osolid or stranded of auxiliary contacts of auxiliary contacts osolid tx (0,5 1,5 mm²) tx (0,5 1,5 mm³) tx (0,5 1,5 mm³) finely stranded with core end processing 0,5 1,5 mm³ of auxiliary contacts a AWG cables for auxiliary contacts a solid tx (0,5 1,5 mm³), 2x (0,5 1,5 mm³) finely stranded with core end processing tx (0,5 1,5 mm³), 2x (0,5 1,5 mm³) finely stranded with core end processing tx (0,5 1,5 mm³), 2x (0,5 1,5 mm³) finely stranded with core end processing tx (0,5 1,5 mm³), 2x (0,5 1,5 mm³) for auxiliary contacts tx (0,5 1,5 mm³), 2x (0,5 1,5 mm³) tx (2,0 16), 2x (2,0 16) Of on anin contacts 20 12 for auxiliary contacts 20 12 of or auxiliary contacts Vielded mechanical performance [tp] <l< td=""><td>•</td><td></td></l<>	•				
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		$4 \times (0.5 - 4 \text{ mm}^2) 2 \times (0.5 - 2.5 \text{ mm}^2)$			
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yielded mechanical performance [hp] • for single-phase AC motor	 for auxiliary contacts 	20 16			
 for single-phase AC motor at 110/120 V rated value at 230 V rated value bfp for 3-phase AC motor at 200/208 V rated value 1 hp 	UL/CSA ratings				
	yielded mechanical performance [hp]				
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value 1 hp 	 for single-phase AC motor 				
for 3-phase AC motor — at 200/208 V rated value 1 hp	— at 110/120 V rated value	0.25 hp			
- at 200/208 V rated value 1 hp	— at 230 V rated value	0.5 hp			
	 for 3-phase AC motor 				
— at 220/230 V rated value 1.5 hp	— at 200/208 V rated value	1 hp			
	— at 220/230 V rated value	1.5 hp			

operating voltage at		3 hp 480 V	,		
Certificates/ approvals General Product Approval EMC					
		<u>Confirmation</u>	(UL) UL	EHC	RCM
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CE EG-Konf.	<u>Confirmation</u>				
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Information on the packaging

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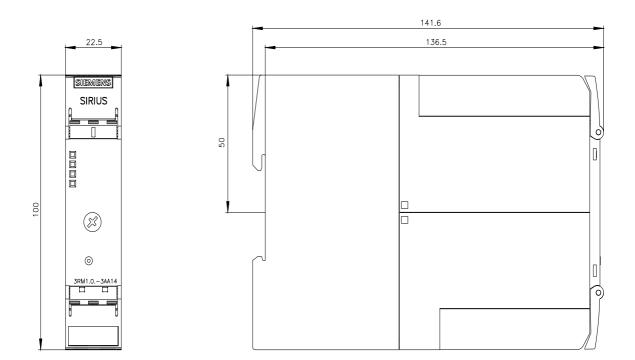
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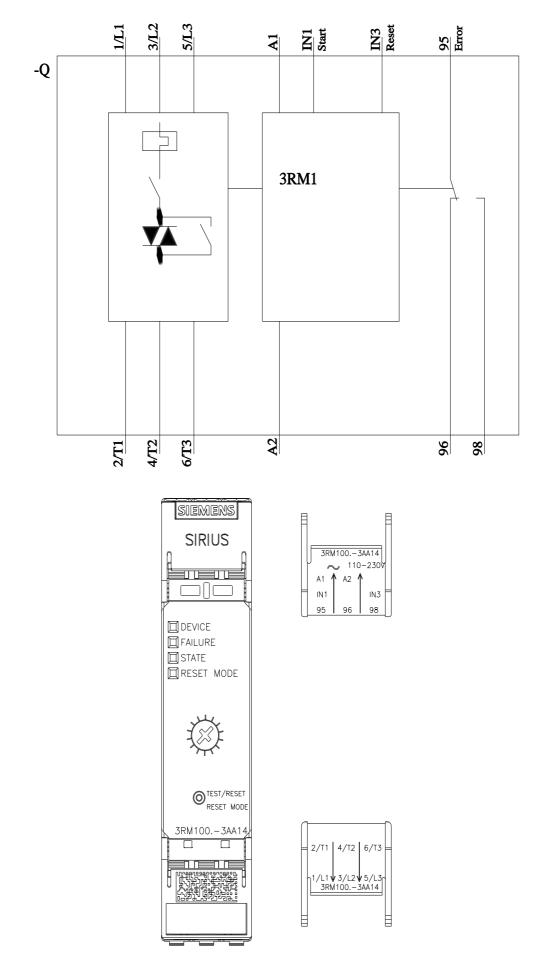
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