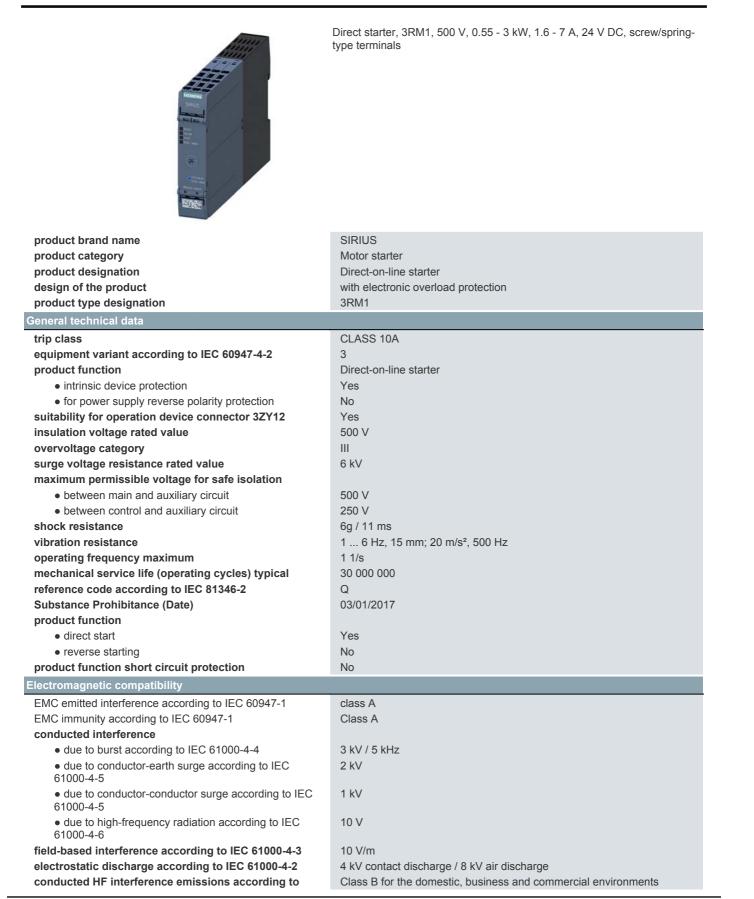
SIEMENS

Data sheet

3RM1007-3AA04



CISPR11

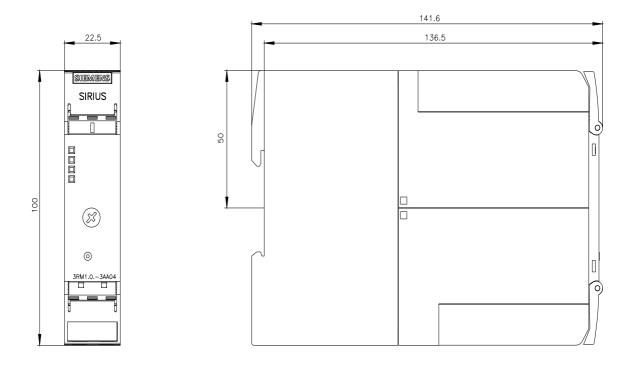
field-bound HF interference emission according to	Class B for the domestic, business and commercial environments
CISPR11	

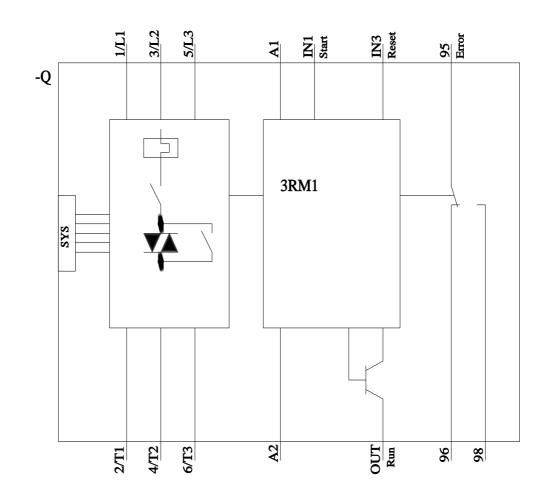
CISPR11	
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
design of the switching contact as NO contact for 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 operational current	10 %
at AC at 400 V rated value	7 A
 at AC-3 at 400 V rated value 	7 A
 at AC-53 at 400 V rated value 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	24 V
● with signal <0> at DC	0 5 V
• for signal <1> at DC	15 30
input current at digital input	
● for signal <1> at DC	11 mA
 with signal <0> at DC 	1 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	DC
control supply voltage at DC rated value	19.2 30 V
relative negative tolerance of the control supply voltage at DC	20 %
relative positive tolerance of the control supply voltage at DC	25 %
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	0.9
initial value full scale value	0.8
full-scale value control current at DC	1.25
in standby mode of operation	25 mA
 In standby mode of operation during operation 	25 MA 70 mA
inrush current peak	
• at DC at 24 V	300 mA
 at DC at 24 V at DC at 24 V at switching on of motor 	130 mA
duration of inrush current peak	
• at DC at 24 V	80 ms
• at DC at 24 V at switching on of motor	20 ms

power loss (M) in susting stato OFF - with typess crout: - with science: - with science:		
- with types stout 0.8 W - with types stout 1.98 W Persons lines 6090 ms OPF-folgy time 6090 ms OPF folgy time 6090 ms OPF folgy time 7.4 • at 0.0 T rated value 5.4 • at 0.0 T rated value 5.7 • at 0.0 T rated value 0 rm • at 0.0 T rated value 0 rm • at 0.0 T rated value 0 rm • at 0.0 T rated value	power loss [W] in auxiliary and control circuit	
- with space circuit 58 W Prover Electronics 6090 ms Ortf-day time 6090 ms Power Electronics 6090 ms operational current 61.0 • at 40 °C rade value 61.0 • at 65 °C rade value 62.0 • at 65 °C rade value 63.0 • at 65 °C rade value 7.0 • at 60 °C rade value 7.0 • oversation 0 mm • oversation	-	
- with bypas circuit 188 W Personas increas Off-daty time 0 07F-daty time 0 07F-daty time 0 07F-daty time 0 1 at 00°C rated value 0 at 00°C rated value 0 1 at 00°C rates restored rate 0 1 at 00°C rates restored ra		0.6 W
Instantion 00 00 ms OPF-day time 0000 ms 0000 ms Power Electronics 0000 ms 0000 ms OPF-day time 0000 ms 0000 ms Power Electronics 0000 ms 0000 ms operational current 7.4 0 0 • at 60 °C table value 5.1 A 0 0 • at 60 °C table value 5.2 A 0 0 • at 60 °C table value 5.2 A 0 0 mounting postbiolin screw and snap on mounting onto 35 mm DIN rail 0 top works 0 mm 0 0 • wh side by side mounting 0 0 0 • our screw 0 mm 0	-	
OH-clark time 6090 ms OPF-clark yitine 6090 ms Poword Electronics		1.68 W
OF-calcy time E0 - 90 ms Power Electronics	Response times	
Power Electronics Control operational current - - at 40 °C rated value 5.2 A - at 50 °C rated value 4.6 A mounting densition - - backwards 0 mm - backwards 0 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - advards 0 mm <	ON-delay time	60 90 ms
operational current 7 A • at 40 °C rated value 7 A • at 50 °C rated value 5.1 A • at 60 °C rated value 5.2 A • at 60 °C rated value 4.8 A Installation mounting dimensions 4.8 A Installation mounting dimensions vertical. horizontal, standing (observe derating) fasting method screw and sanap-on mounting onto 35 mm DIN rail height 10 mm equired spacing 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 00 mm - backwards 0 mm - at the side 4 mm - downwards 50 mm Installation	OFF-delay time	60 90 ms
• at 40 °C rated value 7 Å • at 50 °C rated value 4.6 Å • mounting consistent vertical, horizontal, standing (observe derating) mounting consistent vertical, horizontal, standing (observe derating) fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm vertical, horizontal, standing (observe derating) required spacing • • with side by-side mounting 0 mm - lookards 0 mm - lookards 0 mm - lookards 0 mm - downards 50 mm - downards 0 mm - downards 0 mm - downards 0 mm - downards 50 mm - at the side 4 mm - downards 50 mm - at the side 4 mm - downards 50 mm - at the side 4 mm - downards 50 mm - at the side 5	Power Electronics	
• at 50 °C rated value 6.1 A • at 60 °C rated value 5.2 A • at 60 °C rated value 4.6 A Installation mounting dimensions • writcal, horizontal, standing (observe derating) fastening method screw and sang-on mounting onto 35 mm DIN rail height 23 mm depth 23 mm depth 23 mm exths discby-side mounting • mounting postbolon • newards 0 mm • backwards 00 mm • upwards 50 mm • orgrounded parts 0 mm • orgrounded parts 0 mm • backwards 0 mm • orgrounded parts 0 mm • backwards 0 mm • backwards 0 mm • backwards 0 mm • during storage 4000 m; For derating see manual ambient conditions 4000 m; For derating see manual auting storage 400 °C • during storage 400 °C • during storage 400 °C • during storage 400 °C	operational current	
• at 55 °C rated value 52 Å • at 65 °C rated value 4.6 Å Installation/mounting/dimensions vertical, horizontal, standing (observe derating)) mounting position vertical, horizontal, standing (observe derating) fastening method szerw and snap-on mounting onto 35 mm DIN rail height 100 mm width side by-side mounting - - forwards 0 mm - beckwards 0 mm - upwards 50 mm - at the side 0 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm - beckwards 0 mm - at the side 4 mm	• at 40 °C rated value	7 A
• at 60 °C rated value 4.6 Å Installation mounting officion vertical, horizontal, standing (observe derating)) fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm with side-by-side mounting 142 mm • with side-by-side mounting 0 mm - browards 0 mm - browards 0 mm - browards 0 mm - upwards 50 mm - downwards 0 mm - browards 0 mm - downwards 0 mm - browards 0 mm - downwards 0 mm - downwards 0 mm - browards 0 mm - downwards	• at 50 °C rated value	6.1 A
Installation/mounting/dimensions vertical, horizontal, standing (observe derating) fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm depth 142 mm required spacing • with side-by-side mounting - forwards 0 mm - bockwards 0 mm - worwards 50 mm - worwards 50 mm - worwards 0 mm - for younds 0 mm - worwards 0 mm - worwards 0 mm - bockwards 0 mm - athe side 4 mm - athe side 4 mm - athe side 4 mm - athe side 7 min istiti passaport 4 000 m; Eor derating see manual <td>• at 55 °C rated value</td> <td>5.2 A</td>	• at 55 °C rated value	5.2 A
mounting position vertical, horizontal, standing (observe derating) fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm with 23 mm depth 142 mm required spacing 0 mm - forwards 0 mm - downwards 50 mm - downwards 50 mm - downwards 0 mm - downwards 50 mm - downwards 0 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 25 + 60 °C - during transport	 at 60 °C rated value 	4.6 A
mounting position vertical, horizontal, standing (observe derating) fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm with 23 mm depth 142 mm required spacing 0 mm - forwards 0 mm - downwards 50 mm - downwards 50 mm - downwards 0 mm - downwards 50 mm - downwards 0 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 25 + 60 °C - during transport	Installation/ mounting/ dimensions	
fateling methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidtn23 mmdepth142 mmrequired spacing		vertical, horizontal, standing (observe derating)
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with depth 23 mm depth 142 mm required spacing 142 mm • with side-by-side mounting - - forwards 0 mm - backwards 0 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - the side 0 mm - for grounded parts - - forwards 0 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - downspreature 40	-	
depth 142 mm required spacing -	-	
required spacing • with side by-side mounting • with side by-side mounting 0 mm • backwards 0 mm • upwards 50 mm • upwards 50 mm • dorgrunded parts 0 mm • for grunded parts 0 mm • observeds 0 mm • downwards 0 mm • backwards 0 mm • backwards 0 mm • backwards 0 mm • downwards 50 mm • at the side 4 mm • downwards 50 mm • downwards 50 mm • during operation 25 +60 °C • during transport 25 +60 °C • or auxing transport 325 (and must not gis into the devices),		
with side-by-side mounting — forwards — forwards — orwards — upwards — upwards — upwards — upwards — upwards — or m — or forwards — or m — upwards — upwards — upwards — upwards — or m — backwards — upwards — upwards — upwards — upwards — or m — backwards — upwards — upwards — upwards — or m — or forwards — upwards — upwards — upwards — or m — or downwards S0 mm — at the side — upwards S0 mm — at the side — downwards S0 mm — upwards S0 mm — downwards S0 mm — downwards S0 mm — upwards S0 mm — downwards S0 mm — downwards S0 mm — upwards S0 mm downwards S0 mm	•	
- forwards 0 mm - backwards 0 mm - upwards 50 mm - downwards 50 mm - downwards 0 mm - the side 0 mm - backwards 0 mm - upwards 50 mm - upwards 50 mm - at the side 4 mm - at the side 4 mm - downwards 50 mm Ambient temperature 4 000 m; For derating see manual ambient temperature 4 000 m; For derating see manual Ambient conditions -25 +60 °C • during operation -25 +60 °C • during transport -40 +70 °C • during transport -40 +70 °C • or during storage -40 +70 °C at pressure according to S1 3205 900 1060 hPa Communication/ Protocol No • PROFIsafe protocol No • PROFIsafe protocol No • product function bas communication No • or auxiliary and control circuit screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit <		
- backwards 0 mm - upwards 50 mm - at the side 0 mm - at the side 0 mm - backwards 0 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - downwards 50 mm - at the side 4 mm - downwards 50 ma - downwards 50 ma - downwards 50 ma - downwards <		0 mm
- upwards 50 mm - downwards 50 mm - at the side 0 mm - backwards 0 mm - backwards 0 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - downwards 400 m; For derating see manual - diving paration -25 +60 °C - during transport -40 +70 °C - during transport -40 +70 °C - down repressure according to SN 31205 900 1 060 hPa Communication Protocol No • PROFINET IO protocol No • product functio		
- downwards 50 mm - at the side 0 mm - for grounded parts 0 mm - forwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 50 mm - at the side 4 mm - at the side 4 mm - downwards 50 mm - at the side 4 mm - downwards 50 mm - downwards 4000 m; For derating see manual ambient temperature 4000 m; For derating see manual - during storage 40 +70 °C - during storage 40 +70 °C environmental category during operation 1095 % air pressure according to SN 31205 900		
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• for grounded parts 0 mm - forwards 0 mm - backwards 0 mm - upwards 50 mm - at the side 4 mm - downwards 50 mm Ambient conditions 50 mm installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature -40 +70 °C • during storage -40 +70 °C • during transport -90 10 °C • protocol is supported State conduct not concut • PROFINET IO protocol No		
- forwards 0 mm - backwards 0 mm - backwards 50 mm - at the side 4 mm - downwards 50 mm Anbient conditions installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature - - • during operation -25 +60 °C • - - • during torage -40 +70 °C • - - - • during torage -40 (+70 °C • - - - • during operation according to IEC 6(no bre formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 environmental category during operation 10 95 % air pressure according to SN 31205 900 1060 hPa Communication / Protocol No • PROFINET IO protocol No • PROFIsafe protocol No • Ormal current circuit screw-type terminals for main circuit, spring-loaded terminals (push-in) for contol circuit • for main current circuit spring-loaded terminals (push-in) • for main contacts 1x (0,5		
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at the side 4 mm downwards 50 mm Ambient conditions 50 mm Installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature -25 +60 °C • during storage -40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C Statistic of the state of		
downwards 50 mm Anbient conditions		
Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during operation • during transport • during operation • during transport • during operation • pressure according to SN 31205 • protocol protecol is supported • PROFINET IO protocol • PROFINET IO protocol No protocol is supported AS-Interface protocol • for main current circuit • for main contacts • for main contacts • for main contacts • at WG ca	— downwards	
installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature • during operation • 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 (sand must not get into the devices), 3M6 iar pressure according to SN 31205 900 1 060 hPa Communication/ Protocol No protocol is supported No • PROFINET IO protocol No product function bus communication protocol supported AS-Interface protocol No • for main current circuit screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for main current circuit screw-type terminals (push-in) • for main current circuit screw-type terminals (push-in) • for main control circuit spring-loaded terminals (push-in) • for auxiliary and control circuit str (0,5 4 mm²), 2x (0,5 2,5 mm²)	Ambient conditions	
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• 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 No protocol is supported No • PROFINET IO protocol No product function bus communication No protocol is supported AS-Interface protocol No connections/ Terminals screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit screw-type terminals spring-loaded terminals • for main current circuit screw-type terminals • for main contacts - solid - solid 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) • at AWG cables for main contacts 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) • at AWG cables for main contacts 1x (20 12), 2x (20 14)		
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Connections/ Terminals type of electrical connection screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals (push-in) for control circuit wire length for motor unshielded maximum 100 m type of connectable conductor cross-sections 0 • for main contacts 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) - finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) • at AWG cables for main contacts 1x (20 12), 2x (20 14)	•	
type of electrical connectionscrew-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit• for main current circuitscrew-type terminals• for auxiliary and control circuitspring-loaded terminals (push-in)wire length for motor unshielded maximum100 mtype of connectable conductor cross-sections1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- finely stranded with core end processing1x (0,5 4 mm²), 2x (0,5 1,5 mm²)• at AWG cables for main contacts1x (20 12), 2x (20 14)	Connections/ Terminals	
for main current circuitfor control circuit• for auxiliary and control circuitscrew-type terminals• for auxiliary and control circuitspring-loaded terminals (push-in)wire length for motor unshielded maximum100 mtype of connectable conductor cross-sections100 m• for main contacts- solid- solid1x (0,5 4 mm²), 2x (0,5 2,5 mm²)- finely stranded with core end processing1x (0,5 4 mm²), 2x (0,5 1,5 mm²)• at AWG cables for main contacts1x (20 12), 2x (20 14)connectable conductor cross-section for main contacts1x (20 12), 2x (20 14)		screw-type terminals for main circuit spring-loaded terminals (push-in)
 for auxiliary and control circuit spring-loaded terminals (push-in) 100 m type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing at AWG cables for main contacts tx (0,5 4 mm²), 2x (0,5 2,5 mm²) tx (0,5 4 mm²), 2x (0,5 1,5 mm²) tx (20 12), 2x (20 14) 		
 for auxiliary and control circuit spring-loaded terminals (push-in) 100 m type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing at AWG cables for main contacts tx (0,5 4 mm²), 2x (0,5 2,5 mm²) tx (0,5 4 mm²), 2x (0,5 1,5 mm²) tx (20 12), 2x (20 14) 	 for main current circuit 	screw-type terminals
wire length for motor unshielded maximum type of connectable conductor cross-sections 	 for auxiliary and control circuit 	
type of connectable conductor cross-sections• for main contacts- solid- finely stranded with core end processing• at AWG cables for main contactsconnectable conductor cross-section for main contacts	-	
 for main contacts solid finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts 	-	
— finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) • at AWG cables for main contacts 1x (20 12), 2x (20 14) connectable conductor cross-section for main contacts 1x (20 12), 2x (20 14)		
— finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) • at AWG cables for main contacts 1x (20 12), 2x (20 14) connectable conductor cross-section for main contacts 1x (20 12), 2x (20 14)	— solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
• at AWG cables for main contacts 1x (20 12), 2x (20 14) connectable conductor cross-section for main contacts	 finely stranded with core end processing 	
connectable conductor cross-section for main contacts		
	connectable conductor cross-section for main	
• solid or stranded 0.5 4 mm ²	contacts	
	solid or stranded	0.5 4 mm ²

.	
finely stranded with core end processing	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 1.5 mm²
 finely stranded with core end processing 	0.5 1 mm ²
 finely stranded with core end processing finely stranded without core end processing 	0.5 1.5 mm ²
type of connectable conductor cross-sections	0.0 1.0 mm
for auxiliary contacts	
solid	$1 \times (0.5 - 1.5 \text{ mm}^2) \times (0.5 - 1.5 \text{ mm}^2)$
	1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²)
 finely stranded with core end processing 	$1x (0.5 \dots 1.0 \text{ mm}^2), 2x (0.5 \dots 1.0 \text{ mm}^2)$ $1x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$
— finely stranded without core end processing	1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²)
at AWG cables for auxiliary contacts	1x (20 16), 2x (20 16)
AWG number as coded connectable conductor cross section	
 for main contacts 	20 12
 for auxiliary contacts 	20 16
UL/CSA ratings	
yielded mechanical performance [hp]	
• for single-phase AC motor	
— 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
operating voltage at AC rated value	480 V
Certificates/ approvals	
General Product Approval	EMC
General Product Approval	
Confirmation Confirmation of Other	
Confirmation Declaration of Conformity other Confirmation Confirmation	
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1007-3AA04&lang=en

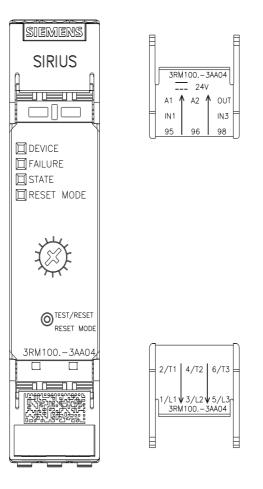




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