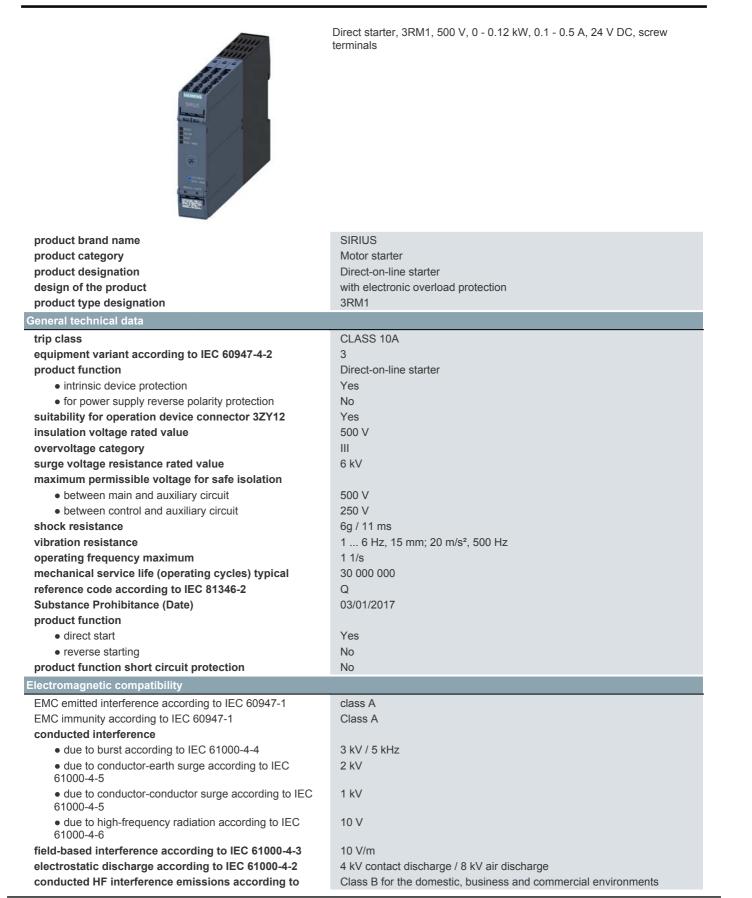
SIEMENS

Data sheet

3RM1001-1AA04



CISPR11

field-bound HF interference emission according to	Class B for the domestic, bus
CISPR11	

Class B for the domestic, business and commercial environments

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	0.1 0.5 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	10 %
voltage	
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value	60 Hz
relative symmetrical tolerance of the operating	10 %
frequency	
operational current	
• at AC at 400 V rated value	0.5 A
• at AC-3 at 400 V rated value	0.5 A
• at AC-53a at 400 V at ambient temperature 40 °C	0.5 A
rated value	
ampacity when starting maximum	4 A
operating power for 3-phase motors at 400 V at 50 Hz	0 0.12 kW
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	20 %
voltage at DC	
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	
 initial value 	0.8
• full-scale value	1.25
control current at DC	
 in standby mode of operation 	25 mA
during operation	70 mA
inrush current peak	
• at DC at 24 V	300 mA
 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 [W] in auxiliary and control circuit	
P	

a in cwitching state OEE	
 in switching state OFF — with bypass circuit 	0.6 W
• in switching state ON	0.0 W
— with bypass circuit	1.68 W
Response times	
ON-delay time	60 90 ms
OFF-delay time	60 90 ms
Power Electronics	
operational current	
at 40 °C rated value	0.5 A
at 50 °C rated value	0.5 A
• at 55 °C rated value	0.5 A
• at 60 °C rated value	0.5 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	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
for grounded parts	0
— forwards	0 mm 0 mm
— backwards — upwards	50 mm
— at the side	4 mm
— downwards	
— downwards Ambient conditions	50 mm
Ambient conditions	4 000 m; For derating see manual
Ambient conditions installation altitude at height above sea level maximum	
Ambient conditions installation altitude at height above sea level maximum ambient temperature	4 000 m; For derating see manual
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	4 000 m; For derating see manual -25 +60 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol product function bus communication	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol product function bus communication protocol is supported AS-Interface protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
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Ambient conditions installation altitude at height above sea level maximum ambient temperature eduring operation during storage during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported PROFINET IO protocol PROFISafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection enterpresed	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No No No
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Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol product function bus communication protocol is supported AS-Interface protocol 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	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No No No
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol product function bus communication protocol is supported AS-Interface protocol 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	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No No No
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol product function bus communication protocol is supported AS-Interface protocol 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	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No No No
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connectable conduc contacts	ctor cross-section for	auxiliary				
 solid or strande 	ed		0.5 2.5 mm²			
 finely stranded 	with core end processir	ng	0.5 2.5 mm²			
type of connectable	conductor cross-sect	tions				
 for auxiliary cor 	ntacts					
— solid			1x (0,5 2,5 mm ²), 2x (1,0 1,5	mm²)	
— finely stra	nded with core end proc	essing	1x (0.5 2.5 mm ²), 2x (0.5 1 m	im²)	
 at AWG cables 	for auxiliary contacts		1x (20 14), 2x (18 16)		
AWG number as coo section	ded connectable cond	uctor cross				
 for main contact 	cts		20 12			
 for auxiliary cor 	ntacts		20 14			
UL/CSA ratings						
operating voltage at A	AC rated value		480 V			
Certificates/ approval	s					
General Product Ap	oproval					EMC
	Confirmation		-			•
SP	Commation		(h)	EHC	RCM
Declaration of Conformity	Test Certificates	other	Railway)	EHC	RCM

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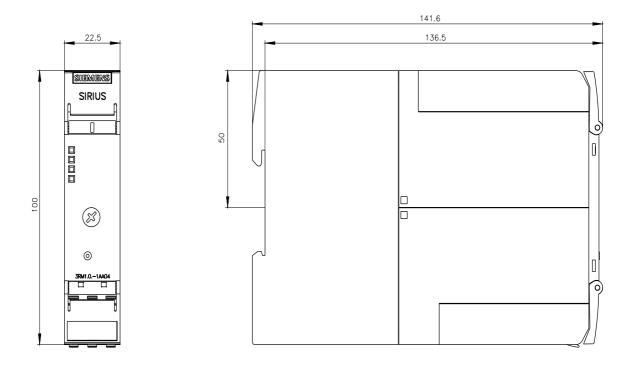
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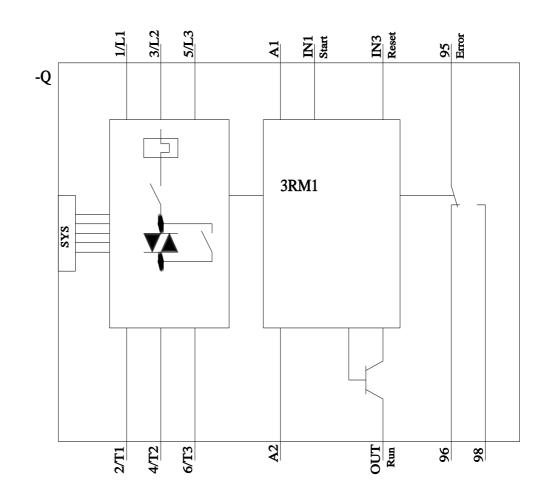
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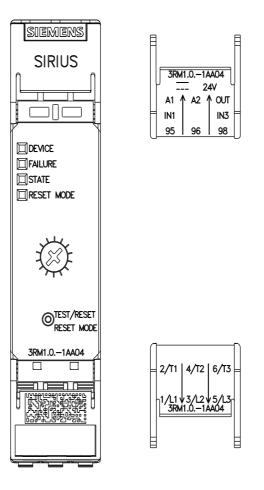
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