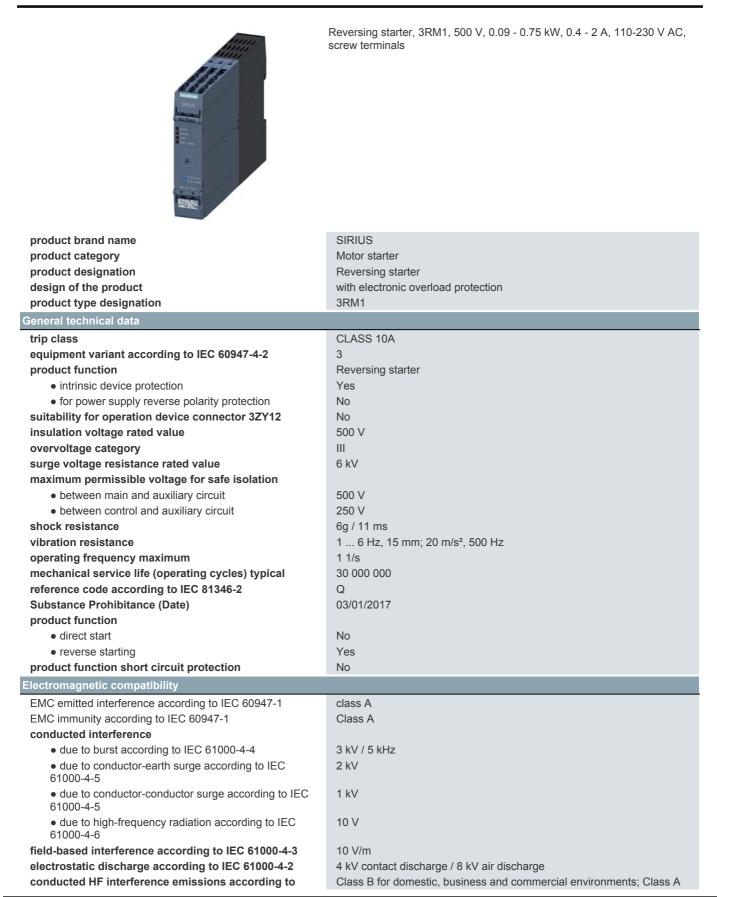
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Data sheet

3RM1202-1AA14



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	3
design of the switching contact design of the switching contact as NO contact for	Hybrid OUT, electronic, 24 V DC, 15 mA
signaling function	OUT, electronic, 24 V DC, 15 mA
adjustable current response value current of the current-dependent overload release	0.4 2 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 at AC at 400 V rated value 	2 A
 at AC-3 at 400 V rated value 	2 A
• at AC-53 at 400 V at ambient temperature 40 °C	2 A
rated value	
ampacity when starting maximum	16 A
operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.75 kW
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 number of CO contacts for auxiliary contacts 	2.3 mA 1
operational current of auxiliary contacts at AC-15 at	1 3 A
230 V maximum	
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	15 %
voltage at DC 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	
 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 	2 A
 at 50 °C rated value 	2 A
 at 55 °C rated value 	2 A
 at 60 °C rated value 	2 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
-	

upworde	50 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	0 mm			
for grounded parts	0			
— forwards	0 mm			
— backwards	0 mm			
— upwards	50 mm			
— at the side	4 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	No			
Connections/ Terminals				
type of electrical connection	screw-type terminals for main circuit, screw-type terminals for control			
for many in a second a local t	circuit			
• for main current circuit	screw-type terminals			
 for auxiliary and control circuit 	screw-type terminals			
wire length for motor unshielded maximum	100 m			
type of connectable conductor cross-sections				
for main contacts				
— solid	1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)			
— finely stranded with core end processing	1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²)			
 at AWG cables for main contacts 	1x (20 12), 2x (20 14)			
connectable conductor cross-section for main contacts				
 solid or stranded 	0.5 4 mm²			
 finely stranded with core end processing 	0.5 4 mm ²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm ²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)			
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)			
 at AWG cables for auxiliary contacts 	1x (20 14), 2x (18 16)			
AWG number as coded connectable conductor cross section				
 for main contacts 	20 12			
 for auxiliary contacts 	20 14			
UL/CSA ratings				
yielded mechanical performance [hp]				
for single-phase AC motor				
— at 230 V rated value	0.125 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	0.33 hp			
— at 220/230 V rated value	0.33 hp			
— at 460/480 V rated value	0.75 hp			
operating voltage at AC rated value	480 V			
Certificates/ approvals				

General Product A	pproval				EMC
SF CAA		<u>Confirmation</u>		EHC	RCM
Declaration of Conformity	Test Certificates	other	Railway		
C E EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Confirmation	<u>Special Test Certific-</u> <u>ate</u>		

urther information

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=3RM1202-1AA14

Cax online generator

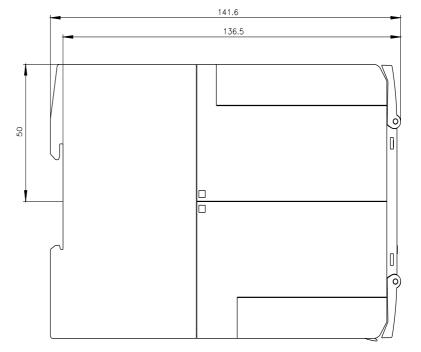
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1202-1AA14

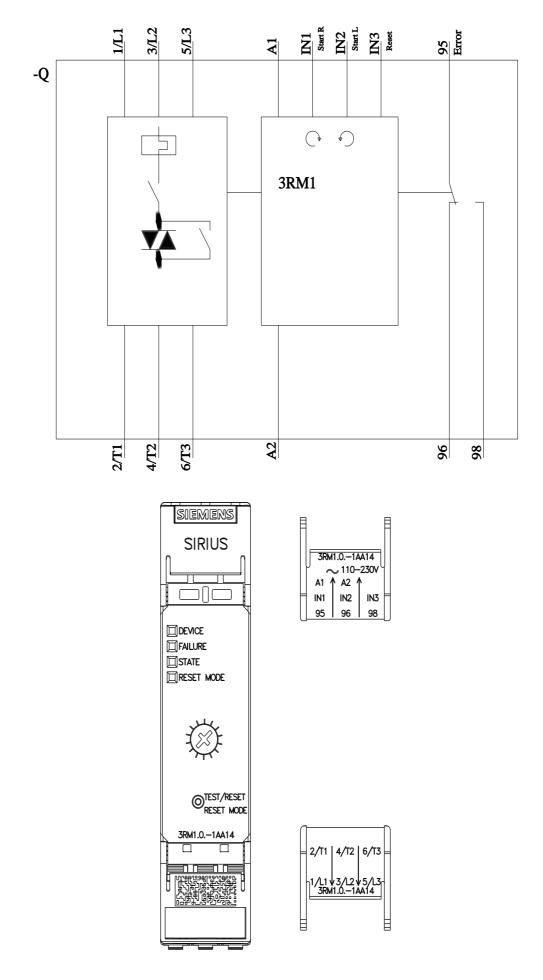
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RM1202-1AA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1202-1AA14&lang=en







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