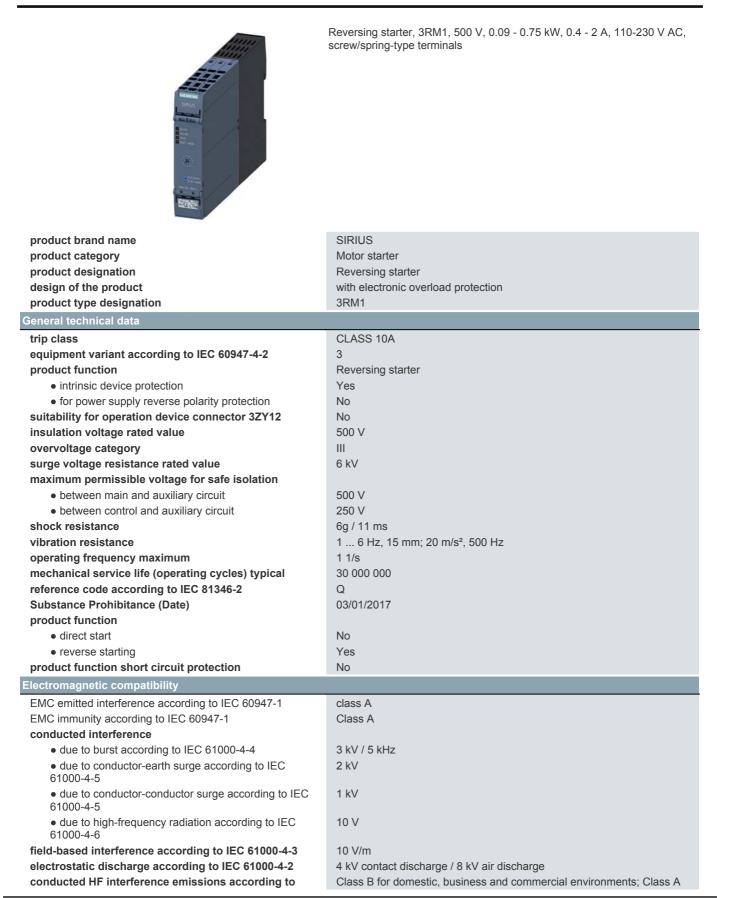
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Data sheet

3RM1202-3AA14



CISPR11	for industrial environments at 110 V DC			
field-bound HF interference emission according to	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC			
CISPR11 Safety related data	for industrial environments at 110 V DC			
protection class IP on the front according to IEC	IP20			
60529	1620			
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	0.4 2 A			
current-dependent overload release 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	50 Hz			
relative symmetrical tolerance of the operating	10 %			
frequency				
 operational current at AC at 400 V rated value 	2 A			
 at AC at 400 V rated value at AC-3 at 400 V rated value 	2 A 2 A			
• at AC-53a 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 with signal <0> at AC 	110 V 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 110 V • at 230 V	0.2 mA 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	1 A			
24 V maximum				
Control circuit/ Control				
type of voltage of the control supply voltage control supply voltage at AC	AC/DC			
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			

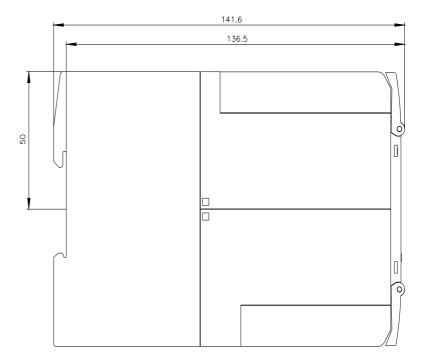
control supply voltage frequency				
1 rated value	50 Hz			
• 2 rated value	60 Hz			
relative negative tolerance of the control supply voltage at DC	15 %			
relative positive tolerance of the control supply voltage at DC	10 %			
control supply voltage 1 at DC rated value	110 V			
operating range factor control supply voltage rated value 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 	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	0			
 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 250 V 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	2 300 11/4			
• 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			

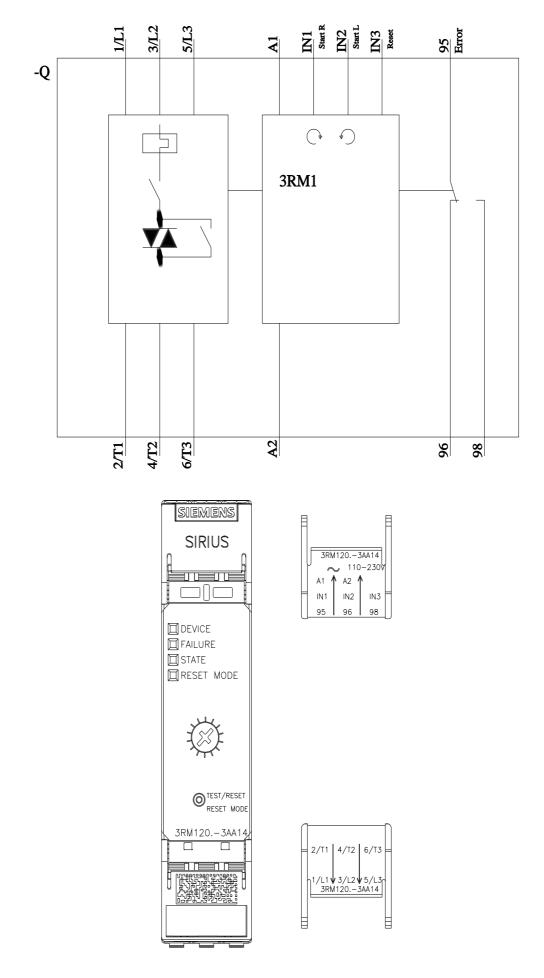
— upwards	50 mm			
— downwards	50 mm			
— at the side	0 mm			
 for grounded parts 	0 mm			
— forwards	0 mm			
— backwards	0 mm			
— upwards	50 mm			
— at the side	4 mm			
— downwards	50 mm			
Ambient conditions				
installation altitude at height above sea level maximum	4 000 m; For derating see manual			
ambient temperature				
during operation	-25 +60 °C			
during storage	-40 +70 °C			
during transport	-40 +70 °C			
environmental category during operation according to IEC	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
60721	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, spring-loaded terminals (push-in) for control circuit			
 for main current circuit 				
	screw-type terminals			
 for auxiliary and control circuit wire length for motor unshielded maximum 	spring-loaded terminals (push-in) 100 m			
type of connectable conductor cross-sections	100 111			
for main contacts				
- solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			
 — 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 mm²			
connectable conductor cross-section for auxiliary				
contacts	0.5 4.5 mm²			
solid or stranded finally stranded with some and pressessing	0.5 1.5 mm² 0.5 1 mm²			
finely stranded with core end processing				
finely stranded without core end processing type of connectable conductor group continue	0.5 1.5 mm²			
type of connectable conductor cross-sections • for auxiliary contacts				
• for auxiliary contacts — solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)			
 — finely stranded with core end processing 	$1x (0.5 1.0 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0,5 1,0 mm^2), 2x (0,5 1,0 mm^2)$			
 — finely stranded with core end processing — 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 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			

ls				
oproval				EMC
<u>Confirmation</u>			EHC	RCM
other				
<u>Confirmation</u>				
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