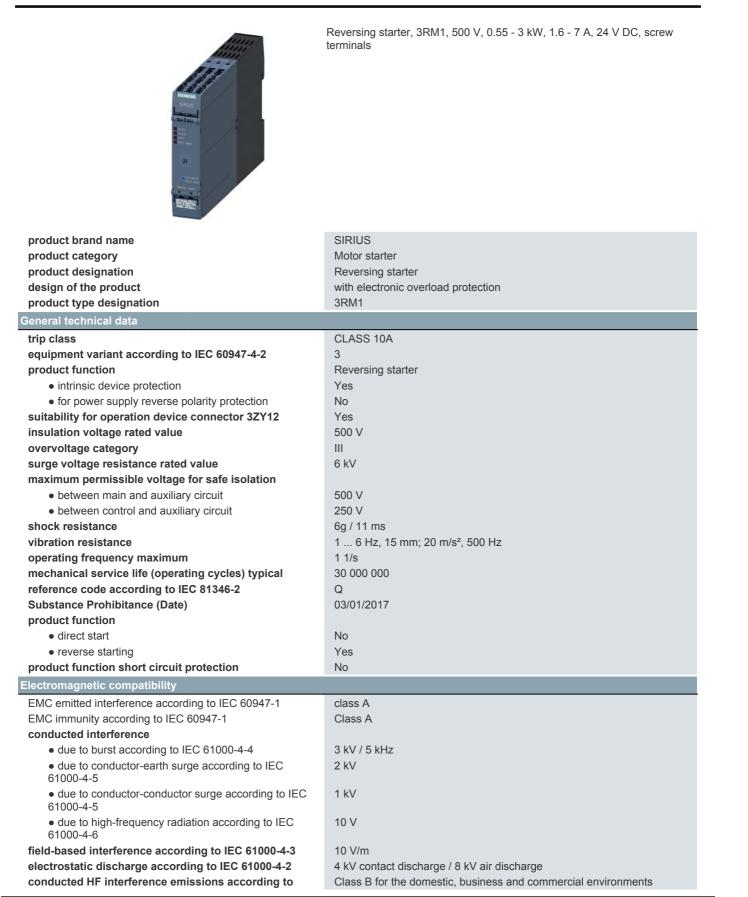
## SIEMENS

## Data sheet

## 3RM1207-1AA04



## CISPR11

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

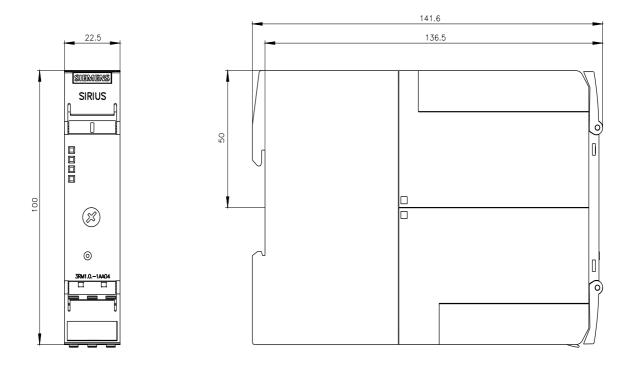
CISPR11	
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
design of the switching contact as NO contact for 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	10 %
operational current	
• at AC at 400 V rated value	7 A
• at AC-3 at 400 V rated value	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	24 V
<ul> <li>with signal &lt;0&gt; at DC</li> </ul>	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 operational current of auxiliary contacts at AC-15 at	1 3 A
230 V maximum operational current of auxiliary contacts at DC-13 at	1A
24 V maximum	
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	
<ul> <li>initial value</li> </ul>	0.8
<ul> <li>full-scale value</li> </ul>	1.25
control current at DC	
<ul> <li>in standby mode of operation</li> </ul>	25 mA
<ul> <li>during operation</li> </ul>	70 mA
inrush current peak	
● at DC at 24 V	300 mA
<ul> <li>at DC at 24 V at switching on of motor</li> </ul>	140 mA
duration of inrush current peak	
• at DC at 24 V	80 ms
<ul> <li>at DC at 24 V at switching on of motor</li> </ul>	80 ms

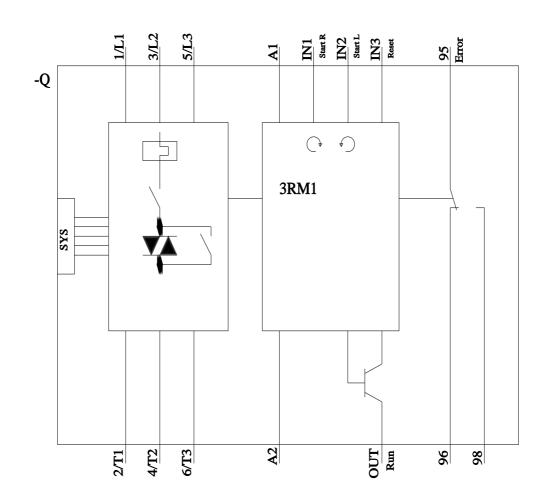
power loss [W] in auxiliary and control circuit	
<ul> <li>in switching state OFF</li> </ul>	
<ul> <li>— with bypass circuit</li> </ul>	0.6 W
<ul> <li>in switching state ON</li> </ul>	
— with bypass circuit	1.68 W
Response times	
ON-delay time	60 90 ms
OFF-delay time	60 90 ms
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	7 A
<ul> <li>at 50 °C rated value</li> </ul>	6.1 A
<ul> <li>at 55 °C rated value</li> </ul>	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	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— 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 -40 +70 °C
<ul> <li>during transport environmental category during operation according to IEC</li> </ul>	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, screw-type terminals for control
	circuit
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	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 <sup>2</sup> ), 2x (0,5 2,5 mm <sup>2</sup> )
— finely stranded with core end processing	1x (0,5 4 mm <sup>2</sup> ), 2x (0,5 1,5 mm <sup>2</sup> )
at AWG cables for main contacts	1x (20 12), 2x (20 14)
connectable conductor cross-section for main	
contacts	
<ul> <li>contacts</li> <li>solid or stranded</li> </ul>	0.5 4 mm²

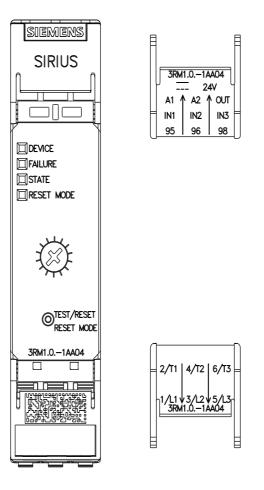
connectable conduc	with core end processir	-	0.5 4	4 mm²			
contacts							
	solid or stranded		0.5 2.5 mm <sup>2</sup>				
	finely stranded with core end processing		0.5 2.5 mm <sup>2</sup>				
	type of connectable conductor cross-sections						
	for auxiliary contacts		$1 \times (0.5 - 2.5 \text{ mm}^2) \times (1.0 - 1.5 \text{ mm}^2)$				
	<ul> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul>		$1x (0,5 2,5 mm^2), 2x (1,0 1,5 mm^2)$ $1x (0,5 2,5 mm^2), 2x (0,5 1 mm^2)$				
	for auxiliary contacts	essing		1x (0.5 2.5 mm²), 2x (0.5 1 mm²) 1x (20 14), 2x (18 16)			
	ded connectable cond	uctor cross	17 (20	14), 2X (10 10	')		
for main contact	ts		20 1	2			
<ul> <li>for auxiliary cor</li> </ul>			20 1	-			
UL/CSA ratings							
yielded mechanical	performance [hp]						
<ul> <li>for single-phase</li> </ul>							
• ·	) V rated value		0.25 hp				
— at 230 V ra	— at 230 V rated value		0.5 hp				
<ul> <li>for 3-phase AC</li> </ul>	<ul> <li>for 3-phase AC motor</li> </ul>						
— at 200/208	— at 200/208 V rated value		1 hp				
— at 220/230	— at 220/230 V rated value		1.5 hp				
— at 460/480	— at 460/480 V rated value		3 hp				
operating voltage at A	operating voltage at AC rated value		480 V				
Certificates/ approval	S						
General Product Ap	oproval					EMC	
(SP)	<u>Confirmation</u>			(UL)	EAC	RCM	
Declaration of Conformity	Test Certificates	other		Railway			
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	<u>on s</u>	Special Test Certific ate	<u></u>		

Irther information	
nformation on the packaging	
https://support.industry.siemens.com/cs/ww/en/view/109813875	
nformation- and Downloadcenter (Catalogs, Brochures,)	
https://www.siemens.com/ic10	
ndustry Mall (Online ordering system)	
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1207-1AA04	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1207-1AA04	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3RM1207-1AA04	
mage database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1207-1AA04⟨=en_	

EG-Konf.







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