SIEMENS

Data sheet

3RM1201-3AA14



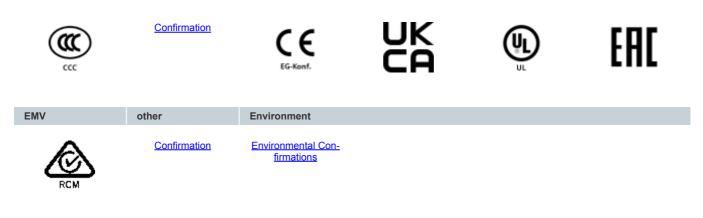
reversing starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 110-230 V AC, screw/spring-loaded terminals (push-in)

37	
product brand name	SIRIUS
product category	Motor starter
product designation	Reversing starter
design of the product	with electronic overload protection
product type designation	3RM1
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	Reversing starter
 intrinsic device protection 	Yes
 for power supply reverse polarity protection 	No
suitability for operation device connector 3ZY12	No
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.01 W
 without load current share typical 	5.06 W
insulation voltage rated value	500 V
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 between main and auxiliary circuit 	500 V
 between control and auxiliary circuit 	250 V
shock resistance	6g / 11 ms
operating frequency maximum	1 1/s
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
product function	
direct start	No
reverse starting	Yes
product function short circuit protection	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
 due to burst according to IEC 61000-4-4 	3 kV / 5 kHz
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
 due to high-frequency radiation according to IEC 61000- 4-6 	10 V

field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	Class B for domestic, business and commercial environments; Class A 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
Electrical Safety	
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	OUT, electronic, 24 V DC, 15 mA
function adjustable current response value current of the current-	0.1 0.5 A
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 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	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 rated value 	0.5 A
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	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	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 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 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	
 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	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	22.5 mm
depth	141.6 mm

• with side by side mounting • booksets 0 mm - booksets 0 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - ownwards 0 mm - upwards 50 mm - ownwards 0 mm - bookswards 0 mm - bookswards 0 mm - bookswards 0 mm - during stores 50 mm - during stores -00 mm ooccasions condensation, 303 (no sait miss), 353 (no	required spacing	
- forwards 0 mm - backwards 0 mm - downwards 50 mm - downwards 50 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm - downwards 0 mm		
- backwards 0 mm - upwards 60 mm - upwards 00 mm - al the side 0 mm - al the side 0 mm - backwards 0 mm <		0 mm
- upwards 50 mm - downwards 50 mm - downwards 50 mm - for younds parts - - backwards 0 mm - backwards 0 mm - backwards 0 mm - upwards 35 mm - upwards 50 mm - downwards 50 mm - downwards 600 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 400 mm For derating see manual - during strapp 50 mm - during strapp 50		
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• for grounded parts 0 mm forwards 0 mm upwards 50 mm upwards 50 mm downwards 50 mm downwards 50 mm downwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 25 mm - downwards 4000 m, For derating see manual ambient temperature		
- forwards 0 mm - backwards 00 mm - at the side 3.5 mm - at the side 3.5 mm - downwards 3.5 mm - downwards 50 mm Ambient conditions - - Installation altitude at height above sea level maximum 4.000 m, For derating see manual - during strapp -4.0 °C °C - during strapp -7.0 °C - durin		0 mm
		0 mm
- ait he side 3.5 mm - downwards 50 mm Anisonal conditions 4000 mc For derating see manual amblent tomporature - 40 +70 °C • during sporation -25 +60 °C • during storage -40 +70 °C • during storage -40 +70 °C • during storage -40 +70 °C • during transport 10 95 % • ar pressure according to SN 31205 900 1060 hPa • Communication Protocol No • PROFisate protocol No • PROFisate protocol No • or auxillary and control circuit sorew-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for auxillary and control circuit spring-loaded terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for an auxillary and control circuit spring-loa		
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• for auxiliary contacts 20 16 UL/CSA ratings operational current at AC at 480 V according to UL 508 0.5 A	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing of auxiliary contacts solid finely stranded with core end processing of inely stranded with core end processing of inely stranded with core end processing of inely stranded without core end processing 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0,5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²)
UL/CSA ratings operational current at AC at 480 V according to UL 508 0.5 A	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing of auxiliary contacts solid finely stranded with core end processing of inely stranded with core end processing of finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0,5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²)
operational current at AC at 480 V according to UL 508 0.5 A	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing of auxiliary contacts solid finely stranded with core end processing of auxiliary contacts a solid finely stranded with core end processing of auxiliary contacts AWG number as coded connectable conductor cross section 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0.5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 16), 2x (20 16)
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Approvals Certificates	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid finely stranded with core end processing for auxiliary contacts solid finely stranded with core end processing for auxiliary contacts for finely stranded with core end processing finely stranded with core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0.5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 16), 2x (20 16) 20 12
	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing of or auxiliary contacts solid finely stranded with core end processing of finely stranded with core end processing of for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0,5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 16), 2x (20 16)
General Product Approval	 solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing of auxiliary contacts solid finely stranded with core end processing of auxiliary contacts solid finely stranded with core end processing of auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts UL/CSA ratings operational current at AC at 480 V according to UL 508 	0.5 4 mm ² 0.5 1.5 mm ² 0.5 1 mm ² 0.5 1.5 mm ² 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (0,5 1,0 mm ²), 2x (0,5 1,0 mm ²) 1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 16), 2x (20 16)

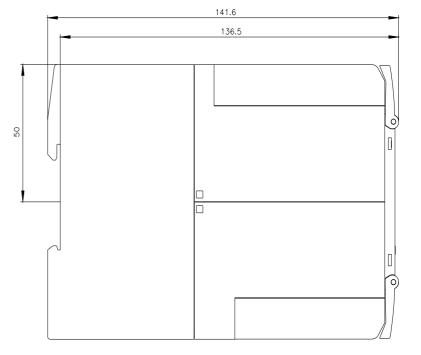


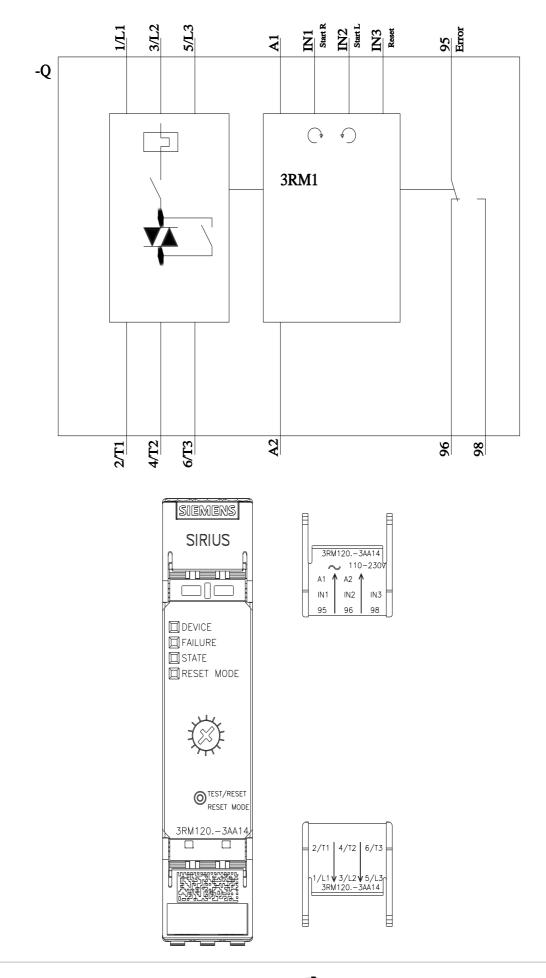
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1201-3AA14&lang=en







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3/11/2024 🖸

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