## 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-type terminals

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
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>for power supply reverse polarity protection</li> </ul>	No
suitability for operation device connector 3ZY12	No
insulation voltage rated value	500 V
overvoltage category	Ш
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V
<ul> <li>between control and auxiliary circuit</li> </ul>	250 V
shock resistance	6g / 11 ms
vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
operating frequency maximum	1 1/s
mechanical service life (operating cycles) typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	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  $\,$ 

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 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
<ul> <li>at AC-53a at 400 V at ambient temperature 40 °C rated value</li> </ul>	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	15
• 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	0.2 mA
• 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 110 V • at 230 V	1.1 mA 2.3 mA
at 230 V  number of CO contacts for auxiliary contacts	2.3 MA 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
• 2 rated value relative negative tolerance of the control supply voltage at	15 %
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 at DC	
<ul> <li>initial value</li> </ul>	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	
<ul> <li>at 110 V in standby mode of operation</li> </ul>	16 mA
<ul> <li>at 230 V in standby mode of operation</li> </ul>	9 mA
<ul> <li>at 110 V when switching on</li> </ul>	55 mA
<ul> <li>at 230 V when switching on</li> </ul>	33 mA
<ul> <li>at 110 V during operation</li> </ul>	36 mA
<ul> <li>at 230 V during operation</li> </ul>	22 mA
control current at DC	
<ul> <li>in standby mode of operation</li> </ul>	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
<ul> <li>at AC at 110 V at switching on of motor</li> </ul>	1 200 mA
<ul> <li>at AC at 230 V at switching on of motor</li> </ul>	2 900 mA
duration of inrush current peak	
• at AC at 110 V	1 ms
• at AC at 230 V	1 ms
<ul> <li>at AC at 110 V at switching on of motor</li> </ul>	1 ms
<ul> <li>at AC at 230 V at switching on of motor</li> </ul>	1 ms
power loss [W] in auxiliary and control circuit	
<ul> <li>in switching state OFF</li> </ul>	
— with bypass circuit	2.1 W
<ul> <li>in switching state ON</li> </ul>	
— 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	23 mm
depth	142 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm

- downards of main of		50 mm
	— downwards	50 mm
- forwards 0 mm - backwards 0 mm - upwards 50 mm - at he aide 4 mm - downwards 50 mm methem constitutes 4 mm - downwards 50 mm methem constitutes 4 mm - downwards 4 mm - downwards 50 mm methem constitutes 4 mm - downwards 4 mm - downwards 4 mm - downwards 400 m, rot derating see manual methem constitutes 4 mm - downwards 4 mm - protocol is supported 5 mm - PROFINET IO protocol No - PROFI	— at the side	0 mm
- backwards         0 mm           - upwards         50 mm           - downwards         50 mm           - downwards         50 mm           - downwards         50 mm           - downwards         4000 m, For derating see manual           ambient conditions	<ul> <li>for grounded parts</li> </ul>	
- upwards     50 mm       - at the side     4 mm       - downwards     50 mm       while conditions     400 m, For derating see manual       ambient conditions     -25 + 60 °C       - during storage     -4070 °C       - dorage storage     -4040 mm <sup>2</sup> - dorage storage     -5040 mm <sup>2</sup> <td< td=""><td>— forwards</td><td>0 mm</td></td<>	— forwards	0 mm
	— backwards	0 mm
downwards         50 mm           mbinet conditions	— upwards	50 mm
mbilant conditions     4000 m; For derating see manual       installation althods at height above sea level maximum     4000 m; For derating see manual       • during poration     -25 + 60 °C       • during storage     -40 + 70 °C       • during operation     -26 + 60 °C       • during operation according to IEC     3K6 (no les formation, only occasional condensation), 3C3 (no salt mist), 3S2 (do conditional mush objet into the devices), 3M6       ammunication/ Protocol     10 95 %       ammunication/ Protocol     900 1 060 hPa       ammunication/ Protocol     No       • PROFINET IO protocol     No       • PROFINET IO protocol     No       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • for waxillary and control circuit     spring-loaded terminals (push-in) for control circuit       • for waxillary and control circuit     spring-loaded terminals (push-in)       • for waxillary and control circuit     spring-loaded terminals (push-in)       • for y standed with core end processing     1x (0.5 4 mm²), 2x (0.5 2,5 mm²)       • for auxillary contacts	— at the side	4 mm
installation altitude at height above sea level maximum     4 000 m; For derating see manual       ambient temperature     -25 +60 °C       • during storage     -40 +70 °C       • during transport     -40 +70 °C       • during operation     -0 +50 °C       • during operation     -0 +50 °C       • ari pressure according to SN 31205     900 1060 hPa       ommunication Protocol     No       protocol is supported     No       • PROFINET IO protocol     No       protocol is supported AS-Interface protocol     No       • for main current circuit     screw-type terminals for main circuit, spring-toaded terminals (push-in) for control circuit       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • for auxiliary and control circuit     spring-loaded terminals (push-in)       • wire length for motor unshileled maximum     100 m       • for one cable conductor cross-sections for main contacts	— downwards	50 mm
ambient temperature       -25 +60 °C         • during storage       -4070 °C         • PROFIsite protocol       No         • PROFIsite protocol       No         • ontocol supported       -5	mbient conditions	
• during operation     -25 +60 °C       • during storage     -40 +70 °C       • during storage     -40 +70 °C       • during storage     -40 +70 °C       envicommental category during operation according to IEC     3K6 (no ice tormation, only occasional condensation), 3C3 (no sait mist), 3S2 (and must not get into the devices), 3M6       relative humidity during operation     1065 %       air pressure according to SN 31205     900 1 060 HPa       ommunication Protocol     No       • PROFINET 10 protocol     No       • PROFINET 10 protocol     No       orgenduct function bus communication     No       protocol is supported     Screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit       • for main current circuit     screw-type terminals for main circuit, spring-loaded terminals (push-in)       • for main current circuit     screw-type terminals for main circuit, spring-loaded terminals (push-in)       • for bit standed with core end processing     1x (0.5 4 mm²), 2x (0.5 1,5 mm²)       • solid or stranded     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 1,5 mm²       • finely stranded with core end processing     0.5 1,5 mm²       • finely stranded with core end processing     1x (0.5 1,5 mm²), 2x (0.5 1,5 mm²)	installation altitude at height above sea level maximum	4 000 m; For derating see manual
• during storage     40 +70 °C       • during transport     40 +70 °C       • during transport     40 +70 °C       60721     Storage of the devices). 3M6       air pressure according to SN 31205     900 1 060 hPa       ommunication/ Protocol     900 1 060 hPa       ommunication/ Protocol     No       • PROFINET IO protocol     No       • Protocol is supported     Screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit       • for main current circuit     screw-type terminals       • for wain current circuit     spring-loaded terminals (push-in)       • for eauxiliary and control circuit     spring-loaded terminals (push-in)       • for eauxiliary and control circuit     spring-loaded terminals (push-in)       • for eauxiliary and control circuit     spring-loaded terminals (push-in)       • for eauxiliary contacts     0.54 mm²), 2x (0.51.5 mm²)       • solid or stranded     0.54 mm²       •	ambient temperature	
• during transport     40 +70 °C       environmental category during operation according to IEC     3K6 (no lee formation, onty occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (no salt mist), 3S2 (sand must not y occasional condensation), 3C3 (sand must not y occasional condensation), 3C3 (sand must not y occasional condensation), 3C3 (sand must not y occasional conductor cross-section for man	<ul> <li>during operation</li> </ul>	
environmental category during operation according to IEC 60721   SK6 (no be formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  environmental category during operation  I 095 %  air pressure according to SN 31205  9001 060 hPa  protocol is supported  • PROFINET IO protocol  Protocol is supported A • PROFINET IO protocol  No  • PROFINET IO protocol  supported A • PROFINET IO protocol  No  • PROFINET IO protocol  supported A • PROFINET IO protocol  • Or main current circuit • for auxiliary and control circuit • for subid or standed • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid • for main corte of processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid • for main contacts • solid • for wave stranded • for main contacts • solid • for wave stranded • for the core end processing • for wave stranded • for main contacts • solid • for main contacts • solid • for main contacts • solid • for main contacts • for main	during storage	
60721       (sand must not get into the devices), 3M6         relative humidity during operation       10 95 %         air pressure according to SN 31205       900 1 060 hPa         ommunication/ Protocol       No         protocol is supported       No         • PROFIsate protocol       No         protocol is supported AS-Interace protocol       No         • ormanication/ Torminals       screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit         • for main current circuit       spring-loaded terminals (push-in)         • for main current circuit       spring-loaded terminals (push-in)         • for main current circuit       spring-loaded terminals (push-in)         • for onnectable conductor cross-sections for main contacts       • solid         • solid       1x (0, 5 4 mm²), 2x (0, 5 1, 5 mm²)         • solid or stranded       0, 5 4 mm²         • solid or stranded       0, 5 4 mm²         • solid or stranded       0, 5 1, 5 mm²         • solid or stranded       0, 5 1, 5 mm²         • solid or stranded       0, 5 1, 5 mm²         • solid or stranded       0, 5 1, 5 mm²         • for auxiliary contacts       0, 5 1, 5 mm²         • solid or stranded       0, 5 1, 5 mm²	during transport	-40 +70 °C
air pressure according to SN 31205 annunication/ Protocol protocol is supported	60721	(sand must not get into the devices), 3M6
ommunication/ Protocol           protocol is supported           • PROFINET IO protocol           • PROFINET IN protocol           • for main current circuit           • for auxiliary and control circuit           • for auxiliary and control circuit           • protocol assign           • solid           • solid or stranded           • finely stranded with core end processing           • for auxiliary contacts           • asoli		
protocol is supported       No         • PROFINET IO protocol       No         • PROFIsate protocol       No         product function bus communication       No         protocol is supported AS-Interface protocol       No         onnections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit         • for main current circuit       screw-type terminals         • for mainity and control circuit       spring-loaded terminals (push-in)         wire length for motor unshielded maximum       100 m         type of connectable conductor cross-sections for main contacts       solid         • solid       1x (0.5 4 mm²), 2x (0.5 1,5 mm²)         • finely stranded with core end processing       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 15 mm²         • finely stranded with core end processing       0.5 15 mm²         • finely stranded with core end processing       0.5 15 mm²         • finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for auxiliary contacts       - sold         • for auxiliary contacts       0.5 1 m²         • for auxiliary contacts       20 1.5 mm²), 2x (0.5 1.5 mm²)		900 1 060 hPa
• PROFINET IO protocol       No         • PROFISEI protocol       No         product function bus communication       No         protocol is supported AS-Interface protocol       No         onnections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit         • for main current circuit       screw-type terminals for main circuit, spring-loaded terminals (push-in)         • for auxiliary and control circuit       spring-loaded terminals (push-in)         • for auxiliary and control circuit       spring-loaded terminals (push-in)         • for auxiliary and control circuit       spring-loaded terminals (push-in)         • for auxiliary and control circuit       spring-loaded terminals (push-in)         • for auxiliary and control circuit       spring-loaded terminals (push-in)         • for auxiliary contacts       solid or stranded         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         • for auxiliary contacts       - solid         • finely stranded with core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         • for auxiliary contacts       - solid         • for auxiliary contacts		
• PROFisafe protocol         No           product function bus communication         No           protocol is supported AS-Interface protocol         No           onnections? Terminals         screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit           of or main current circuit         screw-type terminals           • for auxiliary and control circuit         spring-loaded terminals (push-in)           wire length for motor unshielded maximum         100 m           type of connectable conductor cross-sections for main contacts         solid           • solid         1x (0,5 4 mm²), 2x (0,5 2,5 mm²)           inely stranded with core end processing         0,5 4 mm²           • solid or stranded         0,5 4 mm²           • finely stranded with core end processing         0,5 1,5 mm²           • solid or stranded         0,5 1,5 mm²           • finely stranded with core end processing         0,5 1,5 mm²           • finely stranded with core end processing         0,5 1,5 mm²           • finely stranded with core end processing         0,5 1,5 mm²           • finely stranded with core end processing         1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²)           • finely stranded with core end processing         1x (0,5 1,5 mm²), 2x (0,5 1,5 mm²)           • for auxiliary contacts		
product function bus communication         No           protocol is supported AS-Interface protocol         No           onnections/Terminals         screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit           of or main current circuit         screw-type terminals           of or main current circuit         spring-loaded terminals (push-in)           of or main current circuit         spring-loaded terminals (push-in)           of or main current circuit         spring-loaded terminals (push-in)           wire length for motor unshielded maximum         100 m           type of connectable conductor cross-sections for main contacts         solid           of stranded         1x (0,5 4 mm <sup>2</sup> ), 2x (0,5 2,5 mm <sup>3</sup> )           onnectable conductor cross-section for main contacts         solid or stranded           of stranded         0,5 4 mm <sup>2</sup> onnectable conductor cross-section for auxiliary contacts         solid or stranded           of or auxiliary contacts         0,5 1,5 mm <sup>2</sup> of auxiliary contacts         of auxiliary contacts           of auxiliary contacts         0,5 1,5 mm <sup>2</sup> , 2x (0,5 1,5 mm <sup>2</sup> )           or auxiliary contacts         1x (0,5 1,0 mm <sup>2</sup> ), 2x (0,5 1,0 mm <sup>2</sup> )           or auxiliary contacts         0,5 1,5 mm <sup>2</sup> ), 2x (0,5 1,5 mm <sup>2</sup> )           or au	-	
protocol is supported AS-Interface protocol         No           onnections/Terminals         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         spring-loaded terminals (push-in)           wire length for motor unshelded maximum         100 m           type of connectable conductor cross-sections for main contacts         • solid           • 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> )           • solid or stranded         0.5 4 mm <sup>2</sup> • solid or stranded         0.5 4 mm <sup>2</sup> • finely stranded with core end processing         0.5 1.5 mm <sup>2</sup> • finely stranded with core end processing         0.5 1.5 mm <sup>2</sup> • finely stranded with core end processing         0.5 1.5 mm <sup>2</sup> • for auxiliary contacts         - solid         1x (0.5 1.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • finely stranded with core end processing         1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • for auxiliary contacts         1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • for auxiliary contacts         1x (20 16), 2x (20 16)           • for auxiliar		
onnections/Terminals           type of electrical connection                for main current circuit <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> spring-loaded terminals for main circuit, spring-loaded terminals (push-in) for control circuit                if or auxiliary and control circuit         spring-loaded terminals (push-in)                wire length for motor unshielded maximum         100 m                type of connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>1x (0,5 4 mm²), 2x (0,5 1,5 mm²)</li> </ul> enely stranded with core end processing         0.5 4 mm²                connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>0.5 1.5 mm²</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>0.5 1.5 mm²</li> <li>type of connectable conductor cross-sections             <ul> <li>for auxiliary contacts</li> <li>solid</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxili</li></ul></li></ul>	•	
type of electrical connection       screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit         • for auxiliary and control circuit       spring-loaded terminals (push-in)         wire length for motor unshielded maximum       100 m         type of connectable conductor cross-sections for main contacts       is (0,5 4 mm²), 2x (0,5 2,5 mm²)         • finely stranded with core end processing       1x (0,5 4 mm²), 2x (0,5 1,5 mm²)         connectable conductor cross-section for main contacts       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • solid or stranded       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • finely stranded with core end processing       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         • finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)         • for auxiliary contacts       20 16         AWG number as coded connectable conductor cross section       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) <tr< td=""><td>· · ·</td><td>No</td></tr<>	· · ·	No
• for main current circuit       control circuit         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals (push-in)         wire length for motor unshielded maximum       100 m         type of connectable conductor cross-sections for main contacts       • solid         • solid of stranded       1x (0, 5 4 mm²), 2x (0, 5 2, 5 mm²)         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • solid or stranded       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         - solid       1x (0, 5 1.5 mm²), 2x (0, 5 1.5 mm²)         • finely stranded with core end processing       1x (0, 5 1.5 mm²)         • for auxiliary contacts       1x (0, 5 1.5 mm²)         • for auxiliary contacts       1x (0, 5 1.5 mm²)         • for AWG cables for auxiliary contacts       1x (20 16)		
• for auxiliary and control circuit       spring-doded terminals (push-in)         wire length for motor unshielded maximum       100 m         type of connectable conductor cross-sections for main contacts       isolid         • solid       1x (0,5 4 mm²), 2x (0,5 2,5 mm²)         • finely stranded with core end processing       1x (0,5 4 mm²), 2x (0,5 1,5 mm²)         • connectable conductor cross-section for main contacts       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • solid or stranded       0.5 1.5 mm²         • solid or stranded       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         - solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         - finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         - finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         - for auxiliary contacts       1x (20 16), 2x (20 16)         AWG number as coded connectable conductor cross section       1x (20 16), 2x	type of electrical connection	
wire length for motor unshielded maximum     100 m       type of connectable conductor cross-sections for main contacts     isolid       isolid     1x (0,5 4 mm²), 2x (0,5 2,5 mm²)       efinely stranded with core end processing     1x (0,5 4 mm²), 2x (0,5 1,5 mm²)       connectable conductor cross-section for main contacts     0.5 4 mm²       isolid or stranded     0.5 4 mm²       e finely stranded with core end processing     0.5 4 mm²       connectable conductor cross-section for auxiliary contacts     0.5 4 mm²       isolid or stranded     0.5 4 mm²       e finely stranded with core end processing     0.5 1.5 mm²       inely stranded with core end processing     0.5 1.5 mm²       e finely stranded with core end processing     0.5 1.5 mm²       inely stranded with core end processing     0.5 1.5 mm²       e for auxiliary contacts     - solid       - solid     1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)       - finely stranded with core end processing     1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)       - finely stranded with core end processing     1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)       - finely stranded with core end processing     1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)       - for AWG cables for auxiliary contacts     1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)       AWG number as coded connectable conductor cross section     20 16	<ul> <li>for main current circuit</li> </ul>	screw-type terminals
ype of connectable conductor cross-sections for main contacts       1x (0,5 4 mm²), 2x (0,5 2,5 mm²)         • finely stranded with core end processing       1x (0,5 4 mm²), 2x (0,5 1,5 mm²)         connectable conductor cross-section for main contacts       0.5 4 mm²         • 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 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded without core end processing       0.5 1.5 mm²         • finely stranded without core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         - solid       1x (0,5 1.5 mm²), 2x (0,5 1.5 mm²)         - finely stranded without core end processing       1x (0,5 1.0 mm²), 2x (0,5 1.5 mm²)         • for auxiliary contacts       1x (20 16), 2x (20 16)         AWG number as coded connectable conductor cross section       1x (20 16), 2x (20 16)         • for auxiliary contacts       20 12         • for auxiliary contacts       20 16         L/CSA ratings       0.5 A	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>solid</li> <li>isolid</li> <li>finely stranded with core end processing</li> <li>isolid or stranded</li> <li>isolid or stranded without core end processing</li> <li>isolid or stranded without core end processing</li> <li>isolid isolar or stranded without core end processing</li> <li>isolid isolar or stranded without core end processing</li> <li>isolar or auxiliary contacts</li> <li>isolar or auxiliary contacts<!--</td--><td></td><td>100 m</td></li></ul>		100 m
• finely stranded with core end processing         1x (0,5 4 mm²), 2x (0,5 1,5 mm²)           connectable conductor cross-section for main contacts         0.5 4 mm²           • 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 mm²           • solid or stranded         0.5 1,5 mm²           • finely stranded with core end processing         0.5 1,5 mm²           • finely stranded with core end processing         0.5 1,5 mm²           • finely stranded with core end processing         0.5 1,5 mm²           • for auxiliary contacts         - solid           - solid         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)           - finely stranded with core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)           - finely stranded with core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)           - finely stranded with core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)           - finely stranded without core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)           - finely stranded without core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)           - finely stranded without core end processing         1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) <t< td=""><td></td><td></td></t<>		
connectable conductor cross-section for main contacts       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         • solid or stranded       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • for auxiliary contacts       0.5 1.5 mm²         • solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for auxiliary contacts       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for auxiliary contacts       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for auxiliary contacts       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for Auxiliary contacts       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for Auxiliary contacts       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • for auxiliary contacts       1x (20 16), 2x (20 16)         AWG number as coded connectable conductor cross section       20 12         • for auxiliary contacts       20 16         L/CSA ratings       0.5 A         operating voltage at AC rated value       480 V         operating voltage at A		
• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 4 mm²connectable conductor cross-section for auxiliary contacts0.5 1.5 mm²• solid or stranded0.5 1.5 mm²• finely stranded with core end processing0.5 1 mm²• finely stranded without core end processing0.5 1.5 mm²• for auxiliary contacts solid1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)- finely stranded with core end processing1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)- finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)- finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)- for AWG cables for auxiliary contacts20 12• for main contacts20 12• for main contacts20 16LL/CSA ratings20 16voltage at AC rated value480 Voperating voltage at AC rated value480 Voperational cur		1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
efinely stranded with core end processing       0.5 4 mm <sup>2</sup> connectable conductor cross-section for auxiliary contacts       0.5 1.5 mm <sup>2</sup> e solid or stranded       0.5 1.5 mm <sup>2</sup> e finely stranded with core end processing       0.5 1 mm <sup>2</sup> e finely stranded without core end processing       0.5 1.5 mm <sup>2</sup> type of connectable conductor cross-sections       0.5 1.5 mm <sup>2</sup> e for auxiliary contacts       - solid         - solid       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         - finely stranded with core end processing       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )         - finely stranded without core end processing       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )         - finely stranded without core end processing       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         - finely stranded without core end processing       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         - finely stranded without core end processing       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         - finely stranded without core end processing       1x (20 16), 2x (20 16)         AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         • for auxiliary contacts       20 16         L/CSA ratings       0.5 A		
connectable conductor cross-section for auxiliary contacts       0.5 1.5 mm²         • solid or stranded       0.5 1.5 mm²         • finely stranded with core end processing       0.5 1 mm²         • finely stranded without core end processing       0.5 1.5 mm²         • for auxiliary contacts       - solid         - solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         - finely stranded with core end processing       1x (0,5 1.5 mm²), 2x (0,5 1.5 mm²)         - finely stranded with core end processing       1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)         - finely stranded with core end processing       1x (0,5 1,5 mm²), 2x (0,5 1,0 mm²)         - finely stranded with core end processing       1x (0,5 1,5 mm²), 2x (0,5 1,0 mm²)         - finely stranded without core end processing       1x (20 16), 2x (20 16)         AWG number as coded connectable conductor cross section       1x (20 16), 2x (20 16)         • for main contacts       20 12         • for auxiliary contacts       20 16         L/CSA ratings       0.5 A         operating voltage at AC rated value       480 V         operating voltage at AC rated value       0.5 A         etrificates/ approvals       0.5 A		
• solid or stranded0.5 1.5 mm²• finely stranded with core end processing0.5 1 mm²• finely stranded without core end processing0.5 1.5 mm²type of connectable conductor cross-sections0.5 1.5 mm²• for auxiliary contacts1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)- solid1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1x (20 16), 2x (20 16)AWG number as coded connectable conductor cross section20 12• for main contacts20 12• for auxiliary contacts20 16L/CSA ratings20 16operating voltage at AC rated value480 Voperating voltage at AC rated value0.5 Aertificates/ approvals0.5 A		0.5 4 mm*
• finely stranded with core end processing         0.5 1 mm <sup>2</sup> • finely stranded without core end processing         0.5 1.5 mm <sup>2</sup> type of connectable conductor cross-sections         •           • for auxiliary contacts         -           - solid         1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           - finely stranded with core end processing         1x (0.5 1.0 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )           - finely stranded without core end processing         1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )           - finely stranded without core end processing         1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • for AWG cables for auxiliary contacts         1x (20 16), 2x (20 16)           AWG number as coded connectable conductor cross section         • for main contacts           • for auxiliary contacts         20 12           • for auxiliary contacts         20 16           L/CSA ratings         0.5 A           operating voltage at AC rated value         480 V           operating voltage at AC rated value         0.5 A	-	0.5 4.5
type of connectable conductor cross-sections         • 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 mm²), 2x (0,5 1,0 mm²)         - finely stranded with core end processing         - finely stranded without core end processing         1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)         - finely stranded without core end processing         1x (0,5 1,5 mm²), 2x (0,5 1,0 mm²)         • for 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         L/CSA ratings       20 16         UCSA ratings       0.5 A         operational current at AC at 480 V according to UL 508       0.5 A		
<ul> <li>for auxiliary contacts         <ul> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>e for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 16</li> <li>CCSA ratings</li> <li>operating voltage at AC rated value</li> <li>operational current at AC at 480 V according to UL 508</li> </ul> <li>o 5 A</li>		
solid1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) finely stranded with core end processing1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1,0 mm²) finely stranded without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) for AWG cables for auxiliary contacts1x (20 16), 2x (20 16)AWG number as coded connectable conductor cross section20 12 for main contacts20 12 for auxiliary contacts20 16L/CSA ratings480 Voperating voltage at AC rated value480 Voperational current at AC at 480 V according to UL 5080.5 A		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>20 16</li> </ul> L/CSA ratings operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 0.5 A	-	$1 \times (0.5 - 1.5 \text{ mm}^2) \cdot 2 \times (0.5 - 1.5 \text{ mm}^2)$
<ul> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>20 16</li> </ul> L/CSA ratings operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 0.5 A		
• for AWG cables for auxiliary contacts         1x (20 16), 2x (20 16)           AWG number as coded connectable conductor cross section         20 12)           • for main contacts         20 12           • for auxiliary contacts         20 16           L/CSA ratings         20 16           operating voltage at AC rated value         480 V           operational current at AC at 480 V according to UL 508         0.5 A		
AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         • for auxiliary contacts       20 16         L/CSA ratings       20 16         operating voltage at AC rated value       480 V         operational current at AC at 480 V according to UL 508       0.5 A         ertificates/ approvals       0.5 A		
section     20 12       • for main contacts     20 12       • for auxiliary contacts     20 16       L/CSA ratings     480 V       operating voltage at AC rated value     480 V       operational current at AC at 480 V according to UL 508     0.5 A		TA (20 10), 2A (20 10)
L/CSA ratings         operating voltage at AC rated value         480 V         operational current at AC at 480 V according to UL 508         0.5 A         vertificates/ approvals	for main contacts	20 12
operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 0.5 A ertificates/ approvals	<ul> <li>for auxiliary contacts</li> </ul>	20 16
operational current at AC at 480 V according to UL 508 0.5 A ertificates/ approvals	L/CSA ratings	
ertificates/ approvals	operating voltage at AC rated value	480 V
	operational current at AC at 480 V according to UL 508	0.5 A
General Product Approval EMC	······································	

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UK

Confirmation

other

## Further information

EG-Konf

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RM1201-3AA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1201-3AA14

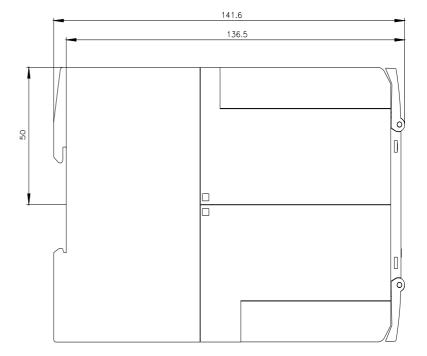
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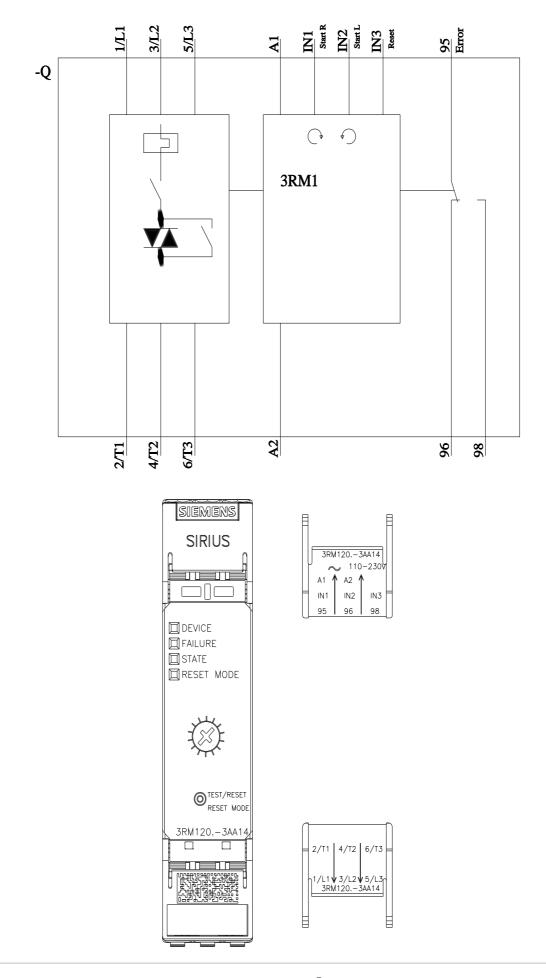
https://support.industry.siemens.com/cs/ww/en/ps/3RM1201-3AA14

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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