## 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	
trip class	CLASS 10A
product function	
<ul> <li>intrinsic device protection</li> </ul>	Yes
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
insulation voltage rated value	500 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<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 (switching cycles) typical	30 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017 00:00:00
product function	
direct start	No
reverse starting	Yes
product function short circuit protection	No
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 KV
<ul> <li>due to high-frequency radiation acc. to IEC 61000- 4-6</li> </ul>	10 V
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
conducted HF interference emissions acc. to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
field-bound HF interference emission acc. to CISPR11	Class B for domestic, business and commercial environments; Class A

	for industrial environments at 110 V DC
Main circuit	
number of poles for main current circuit	3
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 %
type of the motor protection	solid-state
<ul> <li>operating voltage rated value</li> </ul>	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	
<ul> <li>at AC at 400 V rated value</li> </ul>	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	
<ul> <li>at DC rated value</li> </ul>	110 V
<ul> <li>with signal &lt;0&gt; at DC</li> </ul>	0 40 V
● for signal <1> at DC	79 121
input voltage at digital input	
<ul> <li>at AC rated value</li> </ul>	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 1 at AC	440 00014
• at 50 Hz	110 230 V
at 60 Hz	110 230 V
control supply voltage frequency <ul> <li>1 rated value</li> </ul>	50 Hz
1 rated value     2 rated value	50 HZ 60 Hz
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 Cat 60 Hz     1.1       • initial value     0.85       • ottoric current at AC     0.85       • at 110 V in standby mode of operation     9 mA       • at 210 V when switching on     35 mA       • at 220 V during operation     36 mA       • at 230 V during operation     36 mA       • at 230 V during operation     22 mA       • othoring operation     56 mA       • when switching on     15 mA       • during operation     30 mA       • during operation     50 mA       • when switching on     15 mA       • during operation     60 … 90 ms       • OFF delay time     60 … 90 ms       • during operation     80 mA       • when switching on     15 mA       • during operation     80 mA       • which dualy time     60 … 90 ms       OFF delay time     60 … 90 ms       OFF delay time     60 … 90 ms       Installation/ mounting / dimensions     mounting onto 35 mm standard mounting rail       Installation/ mounting onto 35 mm standard mounting rail     141.6 mm       required spacing     • of mounting       • whin side-by-side mounting     0 mm       • backwards <th></th> <th></th>		
operating range factor control supply voltage rated value at AC at 60 Hz         1.1           • initial value         0.85           control current at AC         0.85           • at 110 V in standby mode of operation         16 mA           • at 110 V in standby mode of operation         9 mA           • at 110 V when switching on         33 mA           • at 230 V luing operation         22 mA           control current at DC         6 mA           • at 230 V duing operation         22 mA           control current at DC         6 mA           • in standby mode of operation         6 mA           • when switching on         15 mA           • duing operation         30 mA           ?esponse times         60 90 ms           other operation         30 mA           ?esponse times         60 90 ms           munting position         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22 S form           depth         141 6 mm           required spacing         0 mm           • or grounded pats         0 mm           - forwards         0 mm           - downwards         50 mm           - the side <td></td> <td></td>		
vilte at AC at 60 Hz         1.1           • initial value         0.85           control current at AC         0.85           • at 110 V in standby mode of operation         9 mA           • at 230 V in standby mode of operation         9 mA           • at 110 V vehrs switching on         35 mA           • at 230 V when switching on         36 mA           • at 230 V uhen switching on         22 mA           control current at DC         •           • in standby mode of operation         2 mA           control current at DC         •           • when switching on         15 mA           • during operation         30 mA           • during operation         60 90 ms           OFF delay time         60 90 ms           Installation/ mounting/ dimensions         vertical, horizontal, standing (observe derating)           Installation/ mounting reliation         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         1416 mm           required spacing         • onvards           • onvards         0 mm           - backwards         0 mm           - backwards         0 mm           -		1.1
• Initial value       1.1         • tuil-scale value       0.85         control current at AC       0.85         • at 110 V in standby mode of operation       16 mA         • at 200 V instandby mode of operation       9 mA         • at 200 V when switching on       33 mA         • at 200 V when switching on       33 mA         • at 200 V when switching on       33 mA         • at 200 V duing operation       22 mA         control current at DC       •         • in standby mode of operation       6 mA         • when switching on       15 mA         • duing operation       30 mA         Response times       60 90 ms         OFF delay time       60 90 ms         Instantion mounting/ dimensions       mounting colleners at adam mounting rail         height       100 mm         width       22 S mm         depth       141.6 mm         required spacing       • onwards         • or onwards       0 mm         - backwards       0 mm         - downwards       50 mm         - onwards       0 mm         - onwards       50 mm         - onwards       50 mm         - the side       3.5 mm<		
• full-scale value         0.85           control current at AC         9 mA           • e1 10 V in standby mode of operation         9 mA           • et 230 V when switching on         55 mA           • et 230 V when switching on         33 mA           • et 230 V uhren switching on         36 mA           • et 230 V uhren switching on         22 mA           control current at DC         6 mA           • in standby mode of operation         6 mA           • when switching on         15 mA           • when switching on         15 mA           • when switching on         15 mA           • uhren switching on         15 mA           • switch OK delay time         60 90 ms           OFF delay time         60 90 ms           Installation/ mounting/ dimensions         mounting onto 35 mm standard mounting rail           height         100 mm         22.5 mm           depth         111.6 mm         mereava		11
control current at AC       16 mA         • at 110 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       22 mA         control current at DC       6 mA         • in islandby mode of operation       22 mA         control current at DC       6 mA         • in islandby mode of operation       30 mA         • during operation       6 mA         • usinadby mode of operation       6 mA         • during operation       30 mA         response times       90 ms         switch ON delay time       60 90 ms         fasteling method       screw and snap-on mounting observe derating)         fasteling method       screw and snap-on mounting onto 35 mm standard mounting rail         for provards       0 mm         - backwards       0 mm         - backwards       0 mm         - during operation       3.5 mm         - during operation       0 mm         - forwards       0 mm         - downwards<		
• at 110 V in standby mode of operation       9 mA         • at 120 V in standby mode of operation       9 mA         • at 230 V when switching on       33 mA         • at 230 V during operation       22 mA         control current at DC       6 mA         • in standby mode of operation       6 mA         • when switching on       15 mA         • undatoby mode of operation       6 mA         • when switching on       15 mA         • undatoby mode of operation       60 90 ms <b>Control current at DC</b> 60 90 ms         • undatoby mode of operation       90 ms <b>Control current in top</b> 90 ms <b>Feaponase times</b> 60 90 ms <b>Switch ON delay time</b> 60 90 ms <b>OFF delay time</b> 90 90 ms <b>Distaliation: nounting dimensions</b> vertical, horizontal, standing (observe derating) <b>mounting position</b> screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm       141.6 mm <b>required spacing</b> • with side by-side mounting       - forwards         - backwards       0 mm       - ownwards       50 mm         - ownwards       0 mm       - backwards       0 mm		0.05
• at 230 V in standby mode of operation     9 mA       • at 110 V when switching on     35 mA       • at 230 V when switching on     36 mA       • at 110 V during operation     26 mA       • at 230 V during operation     20 mA       • ontrol current at DC     6 mA       • when switching on     15 mA       • outing operation     6 mA       • when switching on     30 mA       • during operation     60 90 ms       • Outing operation     90 mm       • outing operation     90 mm   <		16 mA
• at 110 V when switching on       55 mA         • at 230 V when switching on       33 mA         • at 230 V during operation       22 mA         control current at DC       6 mA         • in standby mode of operation       6 mA         • when switching on       15 mA         • during operation       30 mA         Response times       60 90 ms         switch ON delay time       60 90 ms         OFF delay time       60 90 ms         Installation/mounting/ dimensions       mounting position         vertical, horizontal, standing (observe derating)       festening method         festening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         width       22.6 mm         depth       141.6 mm         required spacing       0 mm         - forwards       0 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - at the side       0 mm         - at the side       35 mm         - at the side       36 mm         - at the side       30 mm         - at the side       30 mm         -		
• at 230 V when switching on     33 mÅ       • at 110 V during operation     36 mÅ       • at 230 V during operation     22 mÅ       control current at DC     6 mÅ       • in standby mode of operation     6 mÅ       • when switching on     15 mÅ       • during operation     30 mÅ <b>Response times</b> 60 90 ms       Switch ON delay time     60 90 ms       OFF delay time     60 90 ms       Installation/ mounting/ dimensions     vertical, horizontal, standing (observe derating)       mounting position     screw and snap-on mounting onto 35 mm standard mounting rail       height     100 mm       verdida bacing     141.6 mm       required spacing     0 mm       • width die-by-side mounting     0 mm       - backwards     0 mm       - backwards     0 mm       - downwards     50 mm       - at the side     0 mm       - forwards     0 mm       - backwards     0 mm       - at the side     35 mm       - at the side     36		
• at 110 V during operation       36 mÅ         • at 230 V during operation       22 mÅ         control current at DC       6 mÅ         • in standby mode of operation       6 mÅ         • when switching on       15 mÅ         • during operation       30 mÅ         Response times       60 90 ms         switch DN delay time       60 90 ms         OFF delay time       60 90 ms         Installation/ mounting/ dimensions       vertical, horizontal, standing (observe derating)         restering method       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       0 mm         • with side-by-side mounting       0 mm         - orwards       0 mm         - at the side       0 mm         - at the side       0 mm         - at the side       35 mm         - at the side       30 mm         - at the side<	C C	
• at 230 V during operation     22 mA       control current at DC     6 mA       • in standby mode of operation     30 mA       Response times     30 mA       Response times     60 90 ms       oFF delay time     60 90 ms       OFF delay time     60 90 ms       mounting position     vertical, horizontal, standing (observe derating)       fastening method     screw and snap-on mounting onto 35 mm standard mounting rail       height     100 mm       width     22.5 mm       depth     141.6 mm       required spacing     0 mm       • with side-by-side mounting     0 mm       - backwards     0 mm       - upwards     50 mm       - downwards     0 mm       - at the side     0 mm       - backwards     0 mm       - backwards     0 mm       - downwards     50 mm       - at the side     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - downwards     50 mm       - downwards	C C	
control current at DC       6 mA         • in standby mode of operation       6 mA         • when switching on       15 mA         • during operation       30 mA         Response times       60 90 ms         Switch ON delay time       60 90 ms         OFF delay time       60 90 ms         mounting position       vertical, horizontal, standing (observe derating)         fastening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         with side-by-side mounting       -         - forwards       0 mm         - backwards       0 mm         - at the side       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - do		
• in standby mode of operation       6 mA         • when switching on       15 mA         • during operation       30 mA         Response times       60 90 ms         switch ON delay time       60 90 ms         OFF delay time       60 90 ms         Installation/ mounting/ dimensions       mounting position         wetrical, horizontal, standing (observe derating)       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       0 mm         • with side-by-side mounting       0 mm         - forwards       0 mm         - downwards       50 mm         - downwards       50 mm         - downwards       0 mm         - at the side       0 mm         - backwards       0 mm         - backwards       0 mm         - downwards       0 mm         - at the side       3.5 mm         - downwards       50 mm         -		
• when switching on       15 mÅ         • during operation       30 mÅ         Response times       switch ON delay time       60 90 ms         OFF delay time       60 90 ms         Installation/ mounting/ dimensions       vertical, horizontal, standing (observe derating)         mounting position       vertical, horizontal, standing (observe derating)         fastering method       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       0 mm         • with side-by-side mounting       0 mm         - forwards       0 mm         - backwards       50 mm         - downwards       50 mm         - downwards       0 mm         - forwards       0 mm         - forwards       0 mm         - backwards       0 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side		6 m /
• during operation     30 mA       Response times     60 90 ms       OFF delay time     60 90 ms       Installation/ mounting/ dimensions     vertical, horizontal, standing (observe derating)       mounting position     vertical, horizontal, standing (observe derating)       fastening method     screw and snap-on mounting onto 35 mm standard mounting rail       height     100 mm       width     22.5 mm       depth     141.6 mm       required spacing     0 mm       - forwards     0 mm       - backwards     0 mm       - downwards     50 mm       - downwards     50 mm       - forwards     0 mm       - forwards     0 mm       - forwards     0 mm       - at the side     0 mm       - forwards     0 mm       - at the side     3.5 mm       - at the side     3.0 mm		
Response times           switch ON delay time         60 90 ms           OFF delay time         60 90 ms           Installation/ mounting/dimensions         0 90 ms           mounting position         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         0 mm           - backwards         0 mm           - backwards         0 mm           - downwards         50 mm           - difference         3.5 mm           - forwards         0 mm           - downwards         50 mm           - downwards         50 mm           - downwards         0 mm           - downwards         50 mm           - at the side         0 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm	-	
switch ON delay time         60 90 ms           OFF delay time         60 90 ms           Installation/ mounting/ dimensions         vertical, horizontal, standing (observe derating)           mounting position         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         0 mm           - forwards         0 mm           - downwards         50 mm           - at the side         0 mm           - at the side         0 mm           - backwards         0 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side		30 IIIA
OFF delay time         60 90 ms           Installation/ mounting/ dimensions         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         0 mm           - forwards         0 mm           - backwards         0 mm           - downwards         50 mm           - of orwards         0 mm           - at the side         0 mm           - backwards         0 mm           - at the side         0 mm           - backwards         0 mm           - at the side         0 mm           - backwards         0 mm           - at the side         0 mm           - backwards         0 mm           - downwards         50 mm           - at the side         3.5 mm           - at the side         3.5 mm           - downwards         50 mm           - at the side         3.5 mm           - at the side         3.5 mm           - at the side         3.5 mm           - at the side         10 .		00 00
Installation/ mounting/ dimensions         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         0 mm           • with side-by-side mounting         0 mm           - backwards         0 mm           - backwards         0 mm           - downwards         50 mm           - downwards         0 mm           - forwards         0 mm           - downwards         50 mm           - downwards         50 mm           - downwards         50 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at pewards         50 mm           - downwards         50 mm           - at pewards         900 mm           - downwards         90 mm		
mounting position         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         0 mm           • with side-by-side mounting         0 mm           - forwards         0 mm           - upwards         50 mm           - downwards         50 mm           - forwards         0 mm           - backwards         0 mm           - downwards         50 mm           - downwards         50 mm           - downwards         50 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm           - at pewards         50 mm           - downwards         50 mm           - at the side         3.5 mm           - dowmwards         50 mm           <		60 90 ms
fastening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       • with side-by-side mounting         - forwards       0 mm         - backwards       0 mm         - upwards       50 mm         - at the side       0 mm         - at the side       0 mm         - forwards       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       3.5 mm         - at the side       3.5 mm         - downwards       50 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         installation altitude at height above sea level maximum       4 000 m         relative hu		
height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       • with side-by-side mounting         - forwards       0 mm         - backwards       0 mm         - upwards       50 mm         - downwards       0 mm         - downwards       50 mm         - at the side       0 mm         - for grounded parts       0 mm         - forwards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - downwards       50 mm         - at the side       3.5 mm         - at the side       3.5 mm         - downwards       50 mm         Mobient conditions       10 95 %         installation altitude at height above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       product function bus communication         product function bus communication       No         Connections/ Terminals       screw-type terminals for main circ		
width       22.5 mm         depth       141.6 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         - forwards       0 mm         - at the side       0 mm         - forwards       0 mm         - backwards       0 mm         - upwards       50 mm         - at the side       3.5 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side theight above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication / Protocol       product function bus communication <td></td> <td></td>		
depth       141.6 mm         required spacing       • with side-by-side mounting         - forwards       0 mm         - backwards       0 mm         - upwards       50 mm         - downwards       0 mm         - at the side       0 mm         - for grounded parts       0 mm         - for grounded parts       0 mm         - forwards       0 mm         - backwards       0 mm         - backwards       0 mm         - upwards       50 mm         - at the side       3.5 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - advmards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - at the side store sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       preduct function bus comm		
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         - backwards       0 mm         - backwards       0 mm         - upwards       50 mm         - at the side       0 mm         - wards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - at the side       9.0 mm         - downwards       9.00 mm         -		
with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>forwards</li> <li>mm</li> </ul> <li>at the side</li> <li>mm</li> <li>backwards</li> <li>omm</li> <li>forwards</li> <li>omm</li> <li>at the side</li> <li>omm</li> <li>upwards</li> <li>forwards</li> <li>mm</li> <li>backwards</li> <li>mm</li> <li>at the side</li> <li>omm</li> <li>upwards</li> <li>50 mm</li> <li>upwards</li> <li>50 mm</li> <li>backwards</li> <li>mm</li> <li>backwards</li> <li>omm</li> <li>upwards</li> <li>so mm</li> <li>metallation altitude at height above sea level maximum</li> <li>4 000 m</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>air pressure acc. to SN 31205</li> <li>900 1 060 hPa</li> <li>Communication/ Protocol</li> <li>product function bus communication</li> <ul> <li>No</li> </ul> <li>Connections/ Terminals</li> <li>type of electrical connection</li>	•	141.6 mm
- 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         • for grounded parts       0 mm         - forwards       0 mm         - backwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         Mbient conditions       50 mm         installation altitude at height above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Connection/ Protocol       product function bus communication         Product function bus communication       No         Connections/ Terminals       screw-type terminals for main circuit, spring-loaded terminal		
- backwards       0 mm         - upwards       50 mm         - downwards       50 mm         - at the side       0 mm         - at the side       0 mm         - for grounded parts       -         - forwards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - upwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - at the side       3.5 mm         - downwards       50 mm         Mbient conditions       10 95 %         - air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       product function bus communication         No       Connections/ Terminals         type of electrical connection       screw-type terminals for main circuit, spring-loaded terminals (push-in)	<ul> <li>with side-by-side mounting</li> </ul>	
- upwards50 mm- downwards50 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- upwards50 mm- at the side3.5 mm- at the side50 mm- downwards50 mm- at the side3.5 mm- downwards50 mm- downwards50 mm- at the side3.5 mm- at the side3.5 mm- downwards50 mm- other conditions10 95 %- air pressure acc. to SN 31205900 1 060 hPa- Communication/ Protocolvol 95 %- product function bus communicationNoConnections/ Terminalsscrew-type terminals for main circuit, spring-loaded terminals (push-in)	— forwards	0 mm
	— backwards	0 mm
at the side       0 mm         • for grounded parts       0 mm         forwards       0 mm         backwards       0 mm         upwards       50 mm         at the side       3.5 mm         downwards       50 mm         downwards       900 m         - air pressure acc. to SN 31205       900 1 060 hPa         communication/ Protocol       product function bus communication         No       Connections/ Terminals         type of electrical connection       screw-type terminals for main circuit, spring-loaded terminals (push-in)	— upwards	50 mm
<ul> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>downwards</li> <li>for mm</li> <li>downwards</li> <li>mstallation altitude at height above sea level maximum</li> <li>4 000 m</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>air pressure acc. to SN 31205</li> <li>900 1 060 hPa</li> <li>Communication/ Protocol</li> <li>product function bus communication</li> <li>No</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>screw-type terminals for main circuit, spring-loaded terminals (push-in)</li> </ul>	— downwards	50 mm
- forwards0 mm- backwards0 mm- upwards50 mm- at the side3.5 mm- downwards50 mm- downwards50 mmAmbient conditionsinstallation altitude at height above sea level maximum4 000 mrelative humidity during operation10 95 %• air pressure acc. to SN 31205900 1 060 hPaCommunication/ ProtocolNoproduct function bus communicationNoConnections/ Terminalsscrew-type terminals for main circuit, spring-loaded terminals (push-in)	— at the side	0 mm
	<ul> <li>for grounded parts</li> </ul>	
upwards50 mm at the side3.5 mm downwards50 mmAmbient conditions50 mminstallation altitude at height above sea level maximum4 000 mrelative humidity during operation10 95 %• air pressure acc. to SN 31205900 1 060 hPaCommunication/ Protocol900 1 060 hPaproduct function bus communicationNoConnections/ Terminalstype of electrical connectiontype of electrical connectionscrew-type terminals for main circuit, spring-loaded terminals (push-in)	— forwards	
- at the side       3.5 mm         - downwards       50 mm         Ambient conditions       50 mm         installation altitude at height above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       900 1 060 hPa         product function bus communication       No         Connections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in)	— backwards	
— downwards       50 mm         Ambient conditions	— upwards	50 mm
Ambient conditions         installation altitude at height above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       product function bus communication         Product function bus communication       No         Connections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in)		3.5 mm
installation altitude at height above sea level maximum       4 000 m         relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       900 1 060 hPa         product function bus communication       No         Connections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in)	— downwards	50 mm
relative humidity during operation       10 95 %         • air pressure acc. to SN 31205       900 1 060 hPa         Communication/ Protocol       900 1 060 hPa         product function bus communication       No         Connections/ Terminals       screw-type terminals for main circuit, spring-loaded terminals (push-in)	Ambient conditions	
	installation altitude at height above sea level maximum	4 000 m
Communication/ Protocol         product function bus communication       No         Connections/ Terminals       type of electrical connection         screw-type terminals for main circuit, spring-loaded terminals (push-in)	relative humidity during operation	10 95 %
Communication/ Protocol         product function bus communication       No         Connections/ Terminals       type of electrical connection         screw-type terminals for main circuit, spring-loaded terminals (push-in)	air pressure acc. to SN 31205	900 1 060 hPa
product function bus communication         No           Connections/ Terminals         type of electrical connection           screw-type terminals for main circuit, spring-loaded terminals (push-in)		
Connections/ Terminals           type of electrical connection         screw-type terminals for main circuit, spring-loaded terminals (push-in)		No
type of electrical connection screw-type terminals for main circuit, spring-loaded terminals (push-in)		
		arrow type terminals for main aircuit, apring leaded terminals (such in)
		for control circuit
for main current circuit     screw-type terminals		
for auxiliary and control circuit     spring-loaded terminals (push-in)		spring-ioaded terminais (push-in)
type of electrical wiring		
for main current circuit         1 or 2 conductors		
for auxiliary and control circuit     1 or 2 conductors		1 or 2 conductors
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 $1x (0,5 \dots 4 \text{ mm}^2), 2x (0,5 \dots 1,5 \text{ mm}^2)$		
• at AWG cables for main contacts 1x (20 12), 2x (20 14)	<ul> <li>at AWG cables for main contacts</li> </ul>	1x (20 12), 2x (20 14)

connectable conductor cross-section for main contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 1.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 1.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
- finely stranded without core end processing	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
• at AWG cables for auxiliary contacts	1x (20 16), 2x (20 16)
<ul> <li>AWG number as coded connectable conductor cross section for main contacts</li> </ul>	20 12
<ul> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul>	20 16
ertificates/ approvals	
General Product Approval	EMC Declaration of Conformity
	Miscellaneous RCM
Declaration of Conformity     other	Miscellaneous
other	Miscellaneous
Conformity	Miscellaneous

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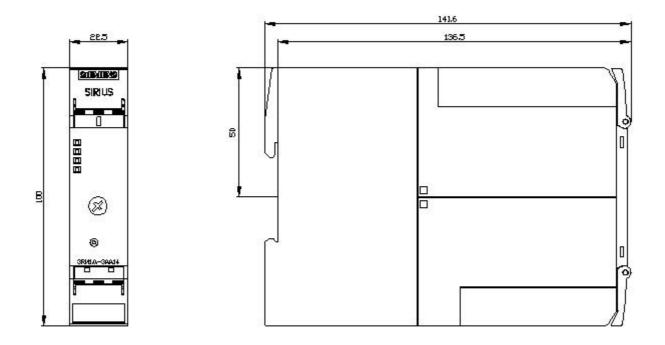
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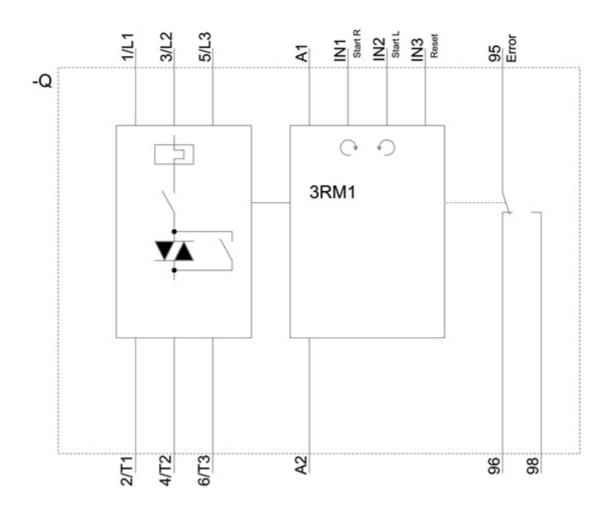
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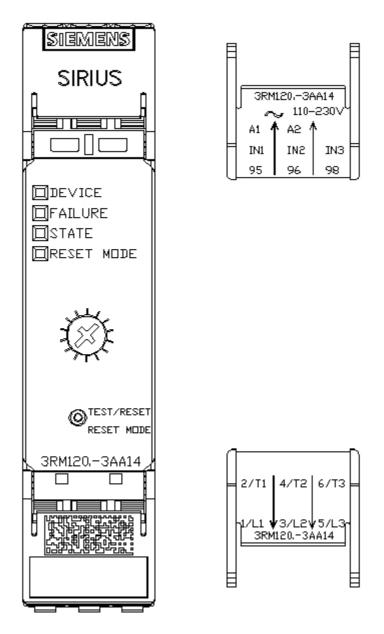
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RM1201-3AA14&lang=en







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