# **SIEMENS**

Data sheet 3RT2015-1AP01



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 230 V AC, 50 / 60 Hz 3-pole, Size S00 screw terminal

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Power contactor            |
| product type designation  | 3RT2                       |
| General technical data  |                            |
| size of contactor   | S00                        |
| product extension   |                            |
| <ul> <li>function module for communication</li> </ul>   | No                         |
| auxiliary switch  | Yes                        |
| power loss [W] for rated value of the current at AC in hot operating state                                  | 1.2 W                      |
| • per pole  | 0.4 W                      |
| power loss [W] for rated value of the current without load current share typical                            | 4.2 W                      |
| surge voltage resistance  |                            |
| of main circuit rated value   | 6 kV                       |
| of auxiliary circuit rated value  | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1            | 400 V                      |
| shock resistance at rectangular impulse   |                            |
| • at AC   | 6,7g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at AC   | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (switching cycles)  |                            |
| of contactor typical  | 30 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul> | 5 000 000                  |
| of the contactor with added auxiliary switch block<br>typical   | 10 000 000                 |
| reference code acc. to IEC 81346-2  | Q                          |
| Ambient conditions  |                            |
| installation altitude at height above sea level maximum   | 2 000 m                    |
| ambient temperature during operation  | -25 +60 °C                 |
| ambient temperature during storage  | -55 +80 °C                 |
| Main circuit  |                            |
| number of poles for main current circuit  | 3                          |
| number of NO contacts for main contacts   | 3                          |
| operating voltage at AC-3 rated value maximum   | 690 V                      |
| operational current   |                            |

| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>   | 18 A  |
|--|---|
| — up to 690 V at ambient temperature 40 °C rated value   | 18 A  |
| — up to 690 V at ambient temperature 60 °C rated value   | 16 A  |
| • at AC-3  |   |
| — at 400 V rated value   | 7 A   |
| — at 500 V rated value   | 6 A   |
| — at 690 V rated value   | 4.9 A   |
| • at AC-4 at 400 V rated value   | 6.5 A   |
| • at AC-5a up to 690 V rated value   | 15.8 A  |
| at AC-5b up to 400 V rated value   | 5.8 A   |
| • at AC-6a   |   |
| — up to 230 V for current peak value n=20 rated value  | 4 A   |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>  | 4 A   |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>  | 3.8 A   |
| — up to 690 V for current peak value n=20 rated value  | 3.6 A   |
| • at AC-6a   |   |
| — up to 230 V for current peak value n=30 rated value  | 2.7 A   |
| — up to 400 V for current peak value n=30 rated value  | 2.7 A   |
| — up to 500 V for current peak value n=30 rated value  | 2.5 A   |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>  | 2.4 A   |
| minimum areas section in main aircuit at mavimum AC 1  | 2.5 mm²   |
| minimum cross-section in main circuit at maximum AC-1 rated value  | 2.5 mm²   |
|  | 2.5 mm <sup>2</sup>   |
| rated value operational current for approx. 200000 operating   | 2.6 A   |
| operational current for approx. 200000 operating cycles at AC-4  |   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  | 2.6 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  | 2.6 A<br>1.8 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  | 2.6 A<br>1.8 A  |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A   |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 220 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 120 V rated value  — at 440 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A   |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value   | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A                                  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 220 V rated value  — at 220 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A                                  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 20 V rated value  — at 210 V rated value  — at 220 V rated value  — at 24 V rated value  — at 440 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  • at 110 V rated value  — at 110 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A                                  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 600 V rated value  — at 440 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 220 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A                                  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 240 V rated value  — at 440 V rated value  — at 440 V rated value  | 2.6 A 1.8 A  15 A 1.5 A 0.6 A 0.42 A 0.42 A  15 A 8.4 A 1.2 A 0.6 A 0.5 A  15 A 15 A 15 A 10.9 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 220 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 22 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A                                  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 110 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value   | 2.6 A 1.8 A  15 A 1.5 A 0.6 A 0.42 A 0.42 A  15 A 8.4 A 1.2 A 0.6 A 0.5 A  15 A 15 A 15 A 10.9 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 220 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 22 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  | 2.6 A 1.8 A  15 A 1.5 A 0.6 A 0.42 A 0.42 A  15 A 8.4 A 1.2 A 0.6 A 0.5 A  15 A 15 A 15 A 10.9 A  |
| rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 220 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  — at 110 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 440 V rated value  — at 600 V rated value | 2.6 A<br>1.8 A<br>15 A<br>1.5 A<br>0.6 A<br>0.42 A<br>0.42 A<br>15 A<br>8.4 A<br>1.2 A<br>0.6 A<br>0.5 A<br>15 A<br>15 A<br>15 A<br>0.7 A |



| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>                |   |
|---|---|
| — at 24 V rated value   | 15 A  |
| — at 110 V rated value  | 0.25 A  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>                |   |
| — at 24 V rated value   | 15 A  |
| — at 110 V rated value  | 15 A  |
| — at 220 V rated value  | 1.2 A   |
| — at 440 V rated value  | 0.14 A  |
| — at 600 V rated value  | 0.14 A  |
| operating power   |   |
| • at AC-3   |   |
| — at 230 V rated value  | 1.5 kW  |
| — at 400 V rated value  | 3 kW  |
| — at 500 V rated value  | 3 kW  |
| — at 690 V rated value  | 4 kW  |
| operating power for approx. 200000 operating cycles                               |   |
| at AC-4   |   |
| • at 400 V rated value  | 1.15 kW   |
| • at 690 V rated value  | 1.15 kW   |
| operating apparent power at AC-6a   |   |
| • up to 230 V for current peak value n=20 rated value                             | 1.5 kV·A  |
| up to 400 V for current peak value n=20 rated value                               | 2.7 kV·A  |
| • up to 500 V for current peak value n=20 rated value                             | 3.3 kV·A  |
| up to 690 V for current peak value n=20 rated value                               | 4.3 kV·A  |
| operating apparent power at AC-6a   |   |
| • up to 230 V for current peak value n=30 rated value                             | 1 kV·A  |
| • up to 400 V for current peak value n=30 rated value                             | 1.8 kV·A  |
| • up to 500 V for current peak value n=30 rated value                             | 2.2 kV·A  |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>           | 2.9 kV·A  |
| short-time withstand current in cold operating state                              | 2.3 KV A  |
| up to 40 °C   |   |
| <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>              | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>              | 86 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>             | 67 A; Use minimum cross-section acc. to AC-1 rated value  |
| limited to 30 s switching at zero current maximum                                 | 52 A; Use minimum cross-section acc. to AC-1 rated value  |
| limited to 60 s switching at zero current maximum                                 | 43 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency   | 107, 000 1111111111111111111111111111111                  |
| • at AC   | 10 000 1/h  |
| operating frequency   | 10 000 1/11   |
| at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 750 1/h   |
| at AC-2 maximum     at AC-3 maximum   | 750 1/h   |
| • at AC-4 maximum   | 250 1/h   |
|   | 200 1/11  |
| Control circuit/ Control  | 10  |
| type of voltage of the control supply voltage                                     | AC  |
| control supply voltage at AC  |   |
| at 50 Hz rated value  | 230 V   |
| at 60 Hz rated value  | 230 V   |
| operating range factor control supply voltage rated<br>value of magnet coil at AC |   |
| • at 50 Hz  | 0.8 1.1   |
| ● at 60 Hz  | 0.85 1.1  |
| apparent pick-up power of magnet coil at AC                                       |   |
| ● at 50 Hz  | 27 V·A  |
| ● at 60 Hz  | 24.3 V·A  |
| inductive power factor with closing power of the coil                             |   |
| ● at 50 Hz  | 0.8   |
| ● at 60 Hz  | 0.75  |
| apparent holding power of magnet coil at AC                                       |   |
|   |   |



| ● at 50 Hz   | 4.2 V·A   |
|--|---|
| ● at 60 Hz   | 3.3 V·A   |
| inductive power factor with the holding power of the coil                |   |
| ● at 50 Hz   | 0.25  |
| ● at 60 Hz   | 0.25  |
| closing delay  |   |
| • at AC  | 9 35 ms   |
| opening delay  |   |
| • at AC  | 3.5 14 ms   |
| arcing time  | 10 15 ms  |
| control version of the switch operating mechanism                        | Standard A1 - A2  |
| Auxiliary circuit  |   |
| number of NO contacts for auxiliary contacts                             | 1   |
| instantaneous contact  |   |
| operational current at AC-12 maximum                                     | 10 A  |
| operational current at AC-15   |   |
| at 230 V rated value   | 10 A  |
| <ul> <li>at 400 V rated value</li> </ul>                                 | 3 A   |
| <ul> <li>at 500 V rated value</li> </ul>                                 | 2 A   |
| • at 690 V rated value   | 1 A   |
| operational current at DC-12   |   |
| at 24 V rated value  | 10 A  |
| <ul> <li>at 48 V rated value</li> </ul>                                  | 6 A   |
| <ul><li>at 60 V rated value</li></ul>                                    | 6 A   |
| at 110 V rated value   | 3 A   |
| at 125 V rated value   | 2 A   |
| <ul> <li>at 220 V rated value</li> </ul>                                 | 1 A   |
| <ul> <li>at 600 V rated value</li> </ul>                                 | 0.15 A  |
| operational current at DC-13   |   |
| <ul> <li>at 24 V rated value</li> </ul>                                  | 10 A  |
| <ul> <li>at 48 V rated value</li> </ul>                                  | 2 A   |
| <ul> <li>at 60 V rated value</li> </ul>                                  | 2 A   |
| <ul> <li>at 110 V rated value</li> </ul>                                 | 1 A   |
| <ul> <li>at 125 V rated value</li> </ul>                                 | 0.9 A   |
| <ul> <li>at 220 V rated value</li> </ul>                                 | 0.3 A   |
| at 600 V rated value   | 0.1 A   |
| contact reliability of auxiliary contacts                                | 1 faulty switching per 100 million (17 V, 1 mA)                   |
| UL/CSA ratings   |   |
| full-load current (FLA) for 3-phase AC motor                             |   |
| <ul> <li>at 480 V rated value</li> </ul>                                 | 4.8 A   |
| at 600 V rated value   | 6.1 A   |
| yielded mechanical performance [hp]                                      |   |
| <ul> <li>for single-phase AC motor</li> </ul>                            |   |
| — at 110/120 V rated value   | 0.25 hp   |
| — at 230 V rated value   | 0.75 hp   |
| <ul> <li>for 3-phase AC motor</li> </ul>                                 |   |
| <ul> <li>at 200/208 V rated value</li> </ul>                             | 1.5 hp  |
| <ul> <li>at 220/230 V rated value</li> </ul>                             | 2 hp  |
| — at 460/480 V rated value   | 3 hp  |
| — at 575/600 V rated value   | 5 hp  |
| contact rating of auxiliary contacts according to UL                     | A600 / Q600   |
| Short-circuit protection   |   |
| design of the fuse link  |   |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>     |   |
| <ul> <li>— with type of coordination 1 required</li> </ul>               | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| <ul> <li>— with type of assignment 2 required</li> </ul>                 | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,     |
|  | 80kA)   |
| <ul> <li>for short-circuit protection of the auxiliary switch</li> </ul> | gG: 10 A (500 V, 1 kA)  |
|  |   |



| stallation/ mounting/ dimensions   |   |
|--|---|
| mounting position  | +/-180° rotation possible on vertical mounting surface; can be tilted |
| mounting position  | forward and backward by +/- 22.5° on vertical mounting surface        |
| fastening method   | screw and snap-on mounting onto 35 mm standard mounting rail          |
|  | according to DIN EN 60715   |
| side-by-side mounting  | Yes   |
| height   | 58 mm   |
| width  | 45 mm<br>73 mm  |
| depth<br>required spacing  | 75 111111   |
| with side-by-side mounting   |   |
| — forwards   | 10 mm   |
| — upwards  | 10 mm   |
| — dpwards<br>— downwards   | 10 mm   |
| — at the side  | 0 mm  |
| for grounded parts   | O IIIIII  |
| — forwards   | 10 mm   |
|  | 10 mm   |
| — upwards<br>— at the side   | 6 mm  |
| — at the side<br>— downwards   | 10 mm   |
|  | 10 111111   |
| for live parts     — forwards  | 10 mm   |
|  | 10 mm   |
| — upwards  |   |
| — downwards  | 10 mm   |
| — at the side  | 6 mm  |
| onnections/ Terminals  |   |
| type of electrical connection  |   |
| for main current circuit   | screw-type terminals  |
| for auxiliary and control circuit  | screw-type terminals  |
| at contactor for auxiliary contacts  | Screw-type terminals  |
| of magnet coil   | Screw-type terminals  |
| type of connectable conductor cross-sections                                   |   |
| • for main contacts  |   |
| — solid  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²                         |
| — solid or stranded  | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²                         |
| — finely stranded with core end processing                                     | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)                                   |
| at AWG cables for main contacts  | 2x (20 16), 2x (18 14), 2x 12   |
| connectable conductor cross-section for main contacts                          |   |
| • solid  | 0.5 4 mm²   |
| stranded   | 0.5 4 mm²   |
| finely stranded with core end processing                                       | 0.5 2.5 mm <sup>2</sup>   |
| connectable conductor cross-section for auxiliary                              | 0.0 2.0 111111  |
| contacts   |   |
| solid or stranded  | 0.5 4 mm²   |
| finely stranded with core end processing                                       | 0.5 2.5 mm²   |
| type of connectable conductor cross-sections                                   |   |
| for auxiliary contacts   |   |
| — solid or stranded  | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²                         |
| <ul> <li>finely stranded with core end processing</li> </ul>                   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)                                   |
| at AWG cables for auxiliary contacts   | 2x (20 16), 2x (18 14), 2x 12   |
| AWG number as coded connectable conductor<br>cross section for main contacts   | 20 12   |
| AWG number as coded connectable conductor cross section for auxiliary contacts | 20 12   |
| afety related data   |   |
| B10 value with high demand rate acc. to SN 31920                               | 1 000 000   |
| proportion of dangerous failures   |   |



| <ul> <li>with low demand rate acc. to SN 31920</li> </ul>          | 40 %   |
|--|--|
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>         | 73 %   |
| failure rate [FIT] with low demand rate acc. to SN 31920           | 100 FIT  |
| product function   |  |
| <ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>           | Yes; with 3RH29                                  |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y   |
| protection class IP on the front acc. to IEC 60529                 | IP20   |
| touch protection on the front acc. to IEC 60529                    | finger-safe, for vertical contact from the front |
| suitability for use safety-related switching OFF                   | Yes  |
|  |  |

Certificates/ approvals

### **General Product Approval**















**EMC** 

## **Declaration of Conformity**

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 



Special Test Certificate Type Test
Certificates/Test
Report



### Marine / Shipping













other

Confirmation



Confirmation

## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AP01}$ 

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-1AP01}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AP01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-1AP01&lang=en

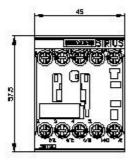
Characteristic: Tripping characteristics, I2t, Let-through current

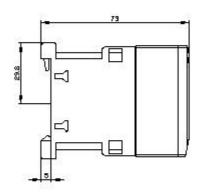
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AP01/char

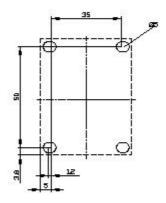
Further characteristics (e.g. electrical endurance, switching frequency)

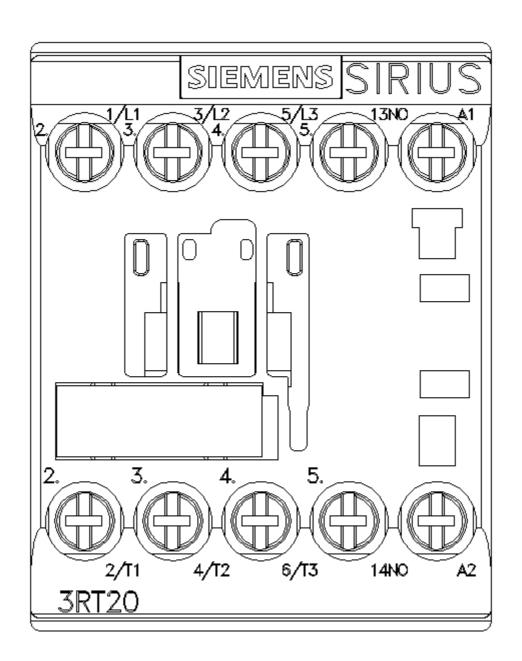
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2015-1AP01\&objecttype=14\&gridview=view1}$ 

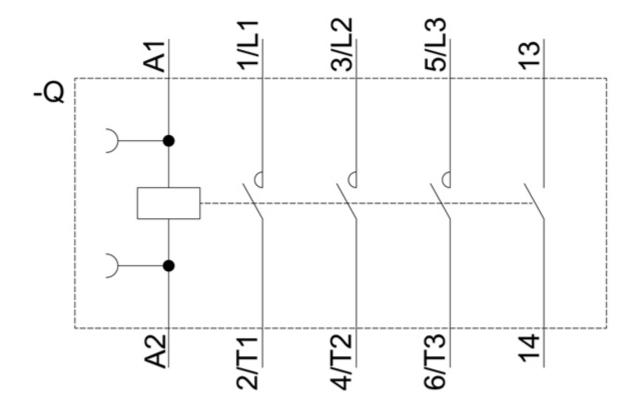












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