## SIEMENS

## Data sheet

## 3RT2015-2AP61



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

| Teo A   |                            |
|---|----------------------------|
| 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   |                            |
| <ul> <li>at AC in hot operating state</li> </ul>  | 0.6 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>   | 0.2 W                      |
| <ul> <li>without load current share typical</li> </ul>  | 1.2 W                      |
| type of calculation of power loss depending on pole   | quadratic                  |
| insulation voltage  |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                      | 690 V                      |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                                 | 690 V                      |
| surge voltage resistance  |                            |
| <ul> <li>of main circuit rated value</li> </ul>   | 6 kV                       |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                       |
| maximum permissible voltage for protective separation between<br>coil and main contacts according 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 (operating cycles)  |                            |
| <ul> <li>of contactor typical</li> </ul>  | 30 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul>     | 5 000 000                  |
| <ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>                                  | 10 000 000                 |
| reference code according to IEC 81346-2   | Q                          |
| Substance Prohibitance (Date)   | 10/01/2009                 |
| Weight  | 0.25 kg                    |
| Ambient conditions  |                            |
| installation altitude at height above sea level maximum   | 2 000 m                    |
| ambient temperature   |                            |
| <ul> <li>during operation</li> </ul>  | -25 +60 °C                 |
| during storage  | -55 +80 °C                 |
| relative humidity minimum   | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum  | 95 %                       |

| Environmental footprint   |                     |
|---|---------------------|
| Environmental Product Declaration(EPD)  | Yes                 |
| global warming potential [CO2 eq] total   | 39.6 kg             |
| global warming potential [CO2 eq] during manufacturing                                    | 1.18 kg             |
| global warming potential [CO2 eq] during operation  | 38.5 kg             |
| global warming potential [CO2 eq] after end of life                                       | -0.155 kg           |
| Main circuit  |                     |
| number of poles for main current circuit  | 3                   |
| number of NO contacts for main contacts   | 3                   |
| operating voltage   |                     |
| <ul> <li>at AC-3 rated value maximum</li> </ul>   | 690 V               |
| <ul> <li>at AC-3e rated value maximum</li> </ul>  | 690 V               |
| operational current   |                     |
| at AC-1 at 400 V at ambient temperature 40 °C rated value                                 | 18 A                |
| • at AC-1   | 40.4                |
| — up to 690 V at ambient temperature 40 °C rated value                                    | 18 A                |
| <ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul> | 16 A                |
| • at AC-3<br>— at 400 V rated value   | 7 A                 |
| — at 500 V rated value  | 6 A                 |
| — at 690 V rated value  | 4.9 A               |
| • at AC-3e  |                     |
| - 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                 |
| — up to 400 V for current peak value n=20 rated value                                     | 4 A                 |
| — up to 500 V for current peak value n=20 rated value                                     | 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               |
| — up to 690 V for current peak value n=30 rated value                                     | 2.4 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value                         | 2.5 mm <sup>2</sup> |
| operational current for approx. 200000 operating cycles at AC-4                           |                     |
| • at 400 V rated value  | 2.6 A               |
| at 690 V rated value  | 1.8 A               |
| operational current   |                     |
| • at 1 current path at DC-1   |                     |
| - at 24 V rated value   | 15 A                |
| - at 60 V rated value   | 15 A                |
| — at 110 V rated value<br>— at 220 V rated value  | 1.5 A<br>0.6 A      |
| — at 440 V rated value  | 0.6 A<br>0.42 A     |
| — at 600 V rated value  | 0.42 A              |
| with 2 current paths in series at DC-1  |                     |
| - at 24 V rated value   | 15 A                |
| — at 60 V rated value   | 15 A                |
| — at 110 V rated value  | 8.4 A               |
| — at 220 V rated value  | 1.2 A               |
| — at 440 V rated value  | 0.6 A               |
| — at 600 V rated value  | 0.5 A               |
|   |                     |

| a with 2 autrent notion in carico at DC 1                               |   |
|---|---|
| with 3 current paths in series at DC-1     — at 24 V rated value        | 15 A  |
| — at 60 V rated value   | 15 A  |
| — at 100 V rated value  | 15 A  |
| — at 220 V rated value  | 15 A  |
| — at 440 V rated value  | 0.9 A   |
| — at 600 V rated value  | 0.7 A   |
| • at 1 current path at DC-3 at DC-5                                     | 0.7 A   |
| - at 24 V rated value   | 15 A  |
| — at 60 V rated value   | 0.35 A  |
| — at 100 V rated value  | 0.15 A  |
| with 2 current paths in series at DC-3 at DC-5                          | 0.1 A   |
| - at 24 V rated value   | 15 A  |
| — at 60 V rated value   | 3.5 A   |
| — at 110 V rated value  | 0.25 A  |
| • with 3 current paths in series at DC-3 at DC-5                        | 0.23 A  |
| — at 24 V rated value   | 15 A  |
| — at 60 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   | 0.177   |
| • at AC-2 at 400 V rated value  | 3 kW  |
| • 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  |
| • at AC-3e  |   |
| — 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                                       |   |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 1.5 kVA   |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul> | 2.7 kVA   |
| • up to 500 V for current peak value n=20 rated value                   | 3.3 kVA   |
| • up to 690 V for current peak value n=20 rated value                   | 4.3 kVA   |
| operating apparent power at AC-6a                                       |   |
| • up to 230 V for current peak value n=30 rated value                   | 1 kVA   |
| • up to 400 V for current peak value n=30 rated value                   | 1.8 kVA   |
| • up to 500 V for current peak value n=30 rated value                   | 2.2 kVA   |
| up to 690 V for current peak value n=30 rated value                     | 2.9 kVA   |
| short-time withstand current in cold operating state up to 40 °C        |   |
| Imited to 1 s switching at zero current maximum                         | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 5 s switching at zero current maximum                         | 86 A; Use minimum cross-section acc. to AC-1 rated value  |
| Imited to 10 s switching at zero current maximum                        | 67 A; Use minimum cross-section acc. to AC-1 rated value  |
| Imited to 30 s switching at zero current maximum                        | 52 A; Use minimum cross-section acc. to AC-1 rated value  |
| Imited to 60 s switching at zero current maximum                        | 43 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency   | 40.000.4/h  |
| • at AC   | 10 000 1/h  |
| operating frequency   | 1 000 1/b   |
| • at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 750 1/h<br>750 1/h  |
| • at AC-3 maximum   | 750 1/h   |

|   | 750.4%  |
|---|---|
| • at AC-3e maximum  | 750 1/h   |
| • at AC-4 maximum   | 250 1/h   |
| Control circuit/ Control  |   |
| type of voltage of the control supply voltage   | AC  |
| control supply voltage at AC  |   |
| • at 50 Hz rated value  | 220 V   |
| • at 60 Hz rated value  | 240 V   |
| operating range factor control supply voltage rated value of<br>magnet coil at AC   |   |
| • at 50 Hz  | 0.8 1.1   |
| • at 60 Hz  | 0.8 1.1   |
| apparent pick-up power of magnet coil at AC   |   |
| • at 50 Hz  | 26.4 VA   |
| • at 60 Hz  | 26.4 VA   |
| inductive power factor with closing power of the coil   |   |
| at 50 Hz  | 0.81  |
| • at 50 Hz  | 0.81  |
| apparent holding power of magnet coil at AC   | 0.01  |
| apparent holding power of magnet coll at AC     • at 50 Hz  | 4.4 VA  |
|   | 4.4 VA<br>4.4 VA  |
| at 60 Hz  | 4.4 V/1   |
| inductive power factor with the holding power of the coil   | 0.04  |
| • at 50 Hz  | 0.24  |
| • at 60 Hz  | 0.24  |
| closing delay   | 0.05  |
| • at AC   | 9 35 ms   |
| opening delay   |   |
| • at AC   | 4 15 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 instantaneous<br>contact   | 1   |
| operational current at AC-12 maximum  | 10 A  |
| operational current at AC-15  |   |
| • at 230 V rated value  | 10 A  |
|   |   |
| • at 400 V rated value  | 3 A   |
| <ul><li>at 400 V rated value</li><li>at 500 V rated value</li></ul>   |   |
|   | 3 A   |
| • at 500 V rated value  | 3 A<br>2 A  |
| <ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>   | 3 A<br>2 A  |
| at 500 V rated value     at 690 V rated value  operational current at DC-12   | 3 A<br>2 A<br>1 A   |
| at 500 V rated value     at 690 V rated value  operational current at DC-12     at 24 V rated value   | 3 A<br>2 A<br>1 A<br>10 A   |
| at 500 V rated value     at 690 V rated value  operational current at DC-12      at 24 V rated value     at 48 V rated value  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> <li>at 600 V rated value</li> <li>at 600 V rated value</li>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 24 V rated value</li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> </ul> </li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 410 V rated value</li> </ul> </li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> </ul> </li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A   |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 20 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 26 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 2125 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A  |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 120 V rated value</li> <li>at 125 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>at 600 V rated value</li> </ul> | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A<br>1 faulty switching per 100 million (17 V, 1 mA)                        |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> </ul> </li> </ul>   | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A<br>1 faulty switching per 100 million (17 V, 1 mA)<br>4.8 A        |
| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 22 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.15 A              |
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| <ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 22 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>  | 3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A<br>1 faulty switching per 100 million (17 V, 1 mA)<br>4.8 A        |

| at 110/120 V/ rated value   | 0.05 hz  |
|---|--|
| — at 110/120 V rated value  | 0.25 hp  |
| — at 230 V rated value  | 0.75 hp  |
| for 3-phase AC motor  |  |
| — at 200/208 V rated value  | 1.5 hp   |
| — at 220/230 V rated value  | 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V         | C characteristic: 10 A; 0.4 kA   |
| design of the fuse link   |  |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                                 | gG: 10 A (500 V, 1 kA)   |
| Installation/ mounting/ dimensions  |  |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method side-by-side mounting  | Yes  |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715   |
| height  | 70 mm  |
| width   | 45 mm  |
| depth   | 73 mm  |
| required spacing  |  |
| <ul> <li>with side-by-side mounting</li> </ul>  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — downwards   | 10 mm  |
| — at the side   | 0 mm   |
| <ul> <li>for grounded parts</li> </ul>  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — at the side   | 6 mm   |
| — downwards   | 10 mm  |
| for live parts  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — downwards   | 10 mm  |
| — at the side   | 6 mm   |
| Connections/ Terminals  |  |
| type of electrical connection   |  |
| for main current circuit  | spring-loaded terminals  |
| <ul> <li>for auxiliary and control circuit</li> </ul>   | spring-loaded terminals  |
| <ul> <li>at contactor for auxiliary contacts</li> </ul>   | Spring-type terminals  |
| <ul> <li>of magnet coil</li> </ul>  | Spring-type terminals  |
| type of connectable conductor cross-sections  |  |
| for main contacts   |  |
| — solid   | 2x (0.5 4 mm²)   |
| — solid or stranded   | 2x (0,5 4 mm <sup>2</sup> )  |
| <ul> <li>— finely stranded with core end processing</li> </ul>  | 2x (0.5 2.5 mm <sup>2</sup> )  |
| <ul> <li>— finely stranded without core end processing</li> </ul>   | 2x (0.5 2.5 mm <sup>2</sup> )  |
| for AWG cables for main contacts  | 2x (20 12)   |
| connectable conductor cross-section for main contacts   |  |
| solid   | 0.5 4 mm²  |
| • stranded  | 0.5 4 mm <sup>2</sup>  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 0.5 2.5 mm <sup>2</sup>  |
| <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> | 0.5 2.5 mm <sup>2</sup>  |
| connectable conductor cross-section for auxiliary contacts  |  |
| solid or stranded   | 0.5 4 mm²  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 0.5 4 mm<br>0.5 2.5 mm <sup>2</sup>  |
| <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> | 0.5 2.5 mm <sup>2</sup>  |
| type of connectable conductor cross-sections  | 0.0 2.0 mm   |
| for auxiliary contacts  |  |
| - TOF AUXILIALY CONIDUS   |  |

| _ 10.1   | andad  |                               | 0v (0 F 4                                  |                          |                                     |
|--|--|-------------------------------|--|--------------------------|-------------------------------------|
| — solid or stra  |  | aina                          | $2x (0.5 \dots 4 \text{ mm}^2)$            |                          |                                     |
| •  | ided with core end process   | •                             | 2x (0.5 2.5 mm²)<br>2x (0.5 2.5 mm²)       |                          |                                     |
|  | ided without core end proc   | cessing                       |  |                          |                                     |
|  | for auxiliary contacts<br>ed connectable conducto  | or cross                      | 2x (20 12)                                 |                          |                                     |
| section  |  |                               |  |                          |                                     |
| <ul> <li>for main contact</li> </ul>                                 | S  |                               | 20 12                                      |                          |                                     |
| <ul> <li>for auxiliary cont</li> </ul>                               | tacts  |                               | 20 12                                      |                          |                                     |
| Safety related data  |  |                               |  |                          |                                     |
| product function   |  |                               |  |                          |                                     |
| <ul> <li>mirror contact ad</li> </ul>                                | ccording to IEC 60947-4-1  |                               | Yes; with 3RH29                            |                          |                                     |
| <ul> <li>positively driven</li> </ul>                                | operation according to IE  | C 60947-5-1                   | No   |                          |                                     |
| suitable for safe  | ty function  |                               | Yes  |                          |                                     |
| suitability for use safet  | itability for use safety-related switching OFF   |                               | Yes  |                          |                                     |
| service life maximum   |  | 20 a                          |  |                          |                                     |
| test wear-related service life necessary                             |  | Yes                           |  |                          |                                     |
| proportion of danger   | ous failures   |                               |  |                          |                                     |
| <ul> <li>with low demand</li> </ul>                                  | d rate according to SN 319   | 920                           | 40 %                                       |                          |                                     |
| <ul> <li>with high deman</li> </ul>                                  | nd rate according to SN 31   | 920                           | 73 %                                       |                          |                                     |
| B10 value with high c  | lemand rate according to   | o SN 31920                    | 1 000 000                                  |                          |                                     |
| failure rate [FIT] with 31920  | low demand rate accord   | ling to SN                    | 100 FIT                                    |                          |                                     |
| ISO 13849  |  |                               |  |                          |                                     |
| device type according  | g to ISO 13849-1   |                               | 3  |                          |                                     |
| -  | cording to ISO 13849-2 r   | necessary                     | Yes  |                          |                                     |
| IEC 61508  |  |                               |  |                          |                                     |
|  | cording to IEC 61508-2   |                               | Туре А                                     |                          |                                     |
| Electrical Safety  |  |                               |  |                          |                                     |
| -  | n the front according to   |                               | IP20                                       |                          |                                     |
|  | he front according to IE   | C 60529                       | finger-safe, for vertical contac           | ct from the front        |                                     |
| Approvals Certificates   |  |                               |  |                          |                                     |
| General Product App  | wayal  |                               |  |                          |                                     |
|  | proval   |                               |  |                          |                                     |
|  | proval   |                               | •  | KC                       |                                     |
| (M)  | ( F  | UK                            | Ē  | KC                       | cor                                 |
|  | CE   | UK                            | (IL)                                       | KC                       | EAC                                 |
|  | EG-Konf.   | UK<br>CA                      | (UL)                                       | KC                       | EAC                                 |
|  | CE   | UK<br>CA                      | UL.  | <u>KC</u>                | EAC                                 |
|  | CE   | UK<br>CA                      | Vuc<br>Marine / Shipping                   | KC                       | EAC                                 |
| CCC  | CE<br>EG-Konf.   | UK<br>CA                      | UL<br>Marine / Shipping                    | KC                       | EAC                                 |
| CCC  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | KC                       | EAC                                 |
| CCC  | EG-Konf.<br>Test Certificates  | CA                            |  | KC                       | EAC<br>JA3                          |
| CCC  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | KC                       | ERC                                 |
| CCC  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  |                          | ERIC<br>DINU                        |
| CCC  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | BUREAU                   | ERC<br>Distribution<br>Distribution |
| EMV<br>EMV<br>RCM  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  |                          | EAC<br>Div                          |
| CCC  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | BUREAU                   | EAC                                 |
| EMV<br>EMV<br>RCM  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  |                          | <b>Efficiency</b>                   |
| EMV<br>EMV<br>RCM  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping                                      | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>RCM  | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping                                      | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping                                      | Certificates         Test Certificates         Type Test Certificates         Test/Test Report   | CA<br>Special Test Cer<br>ate |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping                                      | <b>G</b><br>EG-Konf.<br>Test Certificates  | CA<br>Special Test Cer        |  | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping                                      | Certificates         Test Certificates         Type Test Certificates         Test/Test Report   | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping                 | Certificates         Test Certificates         Type Test Certificates         Test Certificates         Certificates         Test Certificates         Certificates         Type Test Certificates         Certificates         Test Certificates         Type Test Certificates         Test Certificates | CA<br>Special Test Cer<br>ate | tific:<br>ABS                              | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping                 | Certificates         Test Certificates         Type Test Certificates         Type Test Certificates         Certificates         Test Certificates         Railway         Special Test Certificates  | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping                 | Certificates         Test Certificates         Type Test Certificates         Type Test Certificates         Certificates         Test Certificates         Railway         Special Test Certificates  | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping                 | Certificates         Test Certificates         Type Test Certificates         Type Test Certificates         Certificates         Test Certificates         Railway         Special Test Certificates  | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping<br>Confirmation | Certificates         Test Certificates         Type Test Certificates         Type Test Certificates         Certificates         Test Certificates         Railway         Special Test Certificates  | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping<br>Confirmation | Fest Certificates         Type Test Certificates         Type Test Certificates         Certificates         Special Test Certificates         Special Test Certificates   | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |
| EMV<br>EMV<br>Marine / Shipping<br>Marine / Shipping<br>Confirmation | Fest Certificates         Type Test Certificates         Type Test Certificates         Certificates         Special Test Certificates         Special Test Certificates   | CA<br>Special Test Cer<br>ate | tific-<br>ABS<br>ABS<br>Environmental Con- | <b>EUREAU</b><br>VERITAS |                                     |

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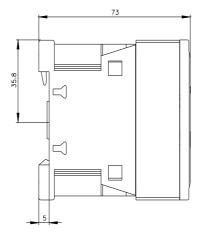
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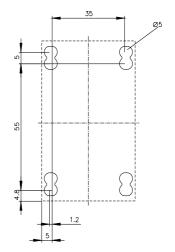
Characteristic: Tripping characteristics, I2t, Let-through current

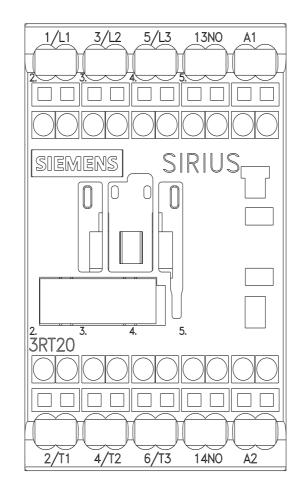
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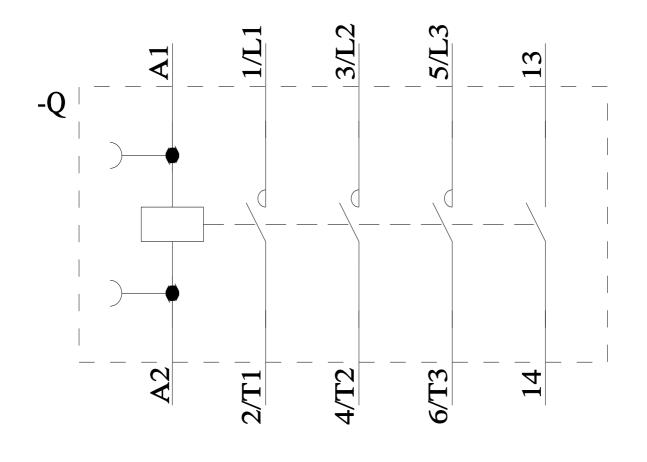
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AP61&objecttype=14&gridview=view1

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