



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, AC (50-60 Hz)  
DC operation 95-130 V AC/DC, 3-pole, Size S0, screw terminal

|                                                                                                  |                            |
|--------------------------------------------------------------------------------------------------|----------------------------|
| product brand name                                                                               | SIRIUS                     |
| product designation                                                                              | Power contactor            |
| product type designation                                                                         | 3RT2                       |
| <b>General technical data</b>                                                                    |                            |
| size of contactor                                                                                | S0                         |
| product extension                                                                                |                            |
| • function module for communication                                                              | No                         |
| • auxiliary switch                                                                               | Yes                        |
| power loss [W] for rated value of the current at AC in hot operating state                       | 4.8 W                      |
| • per pole                                                                                       | 1.6 W                      |
| power loss [W] for rated value of the current without load current share typical                 | 1.8 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                                                                                          | 8,3g / 5 ms, 5,3g / 10 ms  |
| • at DC                                                                                          | 10g / 5 ms, 7,5g / 10 ms   |
| shock resistance with sine pulse                                                                 |                            |
| • at AC                                                                                          | 13,5g / 5 ms, 8,3g / 10 ms |
| • at DC                                                                                          | 15g / 5 ms, 10g / 10 ms    |
| mechanical service life (switching cycles)                                                       |                            |
| • of contactor typical                                                                           | 10 000 000                 |
| • of the contactor with added electronically optimized auxiliary switch block typical            | 5 000 000                  |
| • of the contactor with added auxiliary switch block typical                                     | 10 000 000                 |
| reference code acc. to IEC 81346-2                                                               | Q                          |
| Substance Prohibition (Date)                                                                     | 01.10.2009 00:00:00        |
| <b>Ambient conditions</b>                                                                        |                            |
| installation altitude at height above sea level maximum                                          | 2 000 m                    |
| ambient temperature                                                                              |                            |
| • during operation                                                                               | -25 ... +60 °C             |
| • during storage                                                                                 | -55 ... +80 °C             |
| <b>Main circuit</b>                                                                              |                            |
| number of poles for main current circuit                                                         | 3                          |

|                                                                                                                                                                       |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>number of NO contacts for main contacts</b>                                                                                                                        | 3                  |
| operating voltage at AC-3 rated value maximum                                                                                                                         | 690 V              |
| <b>operational current</b>                                                                                                                                            |                    |
| <ul style="list-style-type: none"> <li>• at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>                                                         | 40 A               |
| <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul> | 40 A               |
| <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>                                                              | 35 A               |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                                 | 25 A               |
| <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul>                                                                                              | 18 A               |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                              | 13 A               |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                      | 15.5 A             |
| <ul style="list-style-type: none"> <li>• at AC-5a up to 690 V rated value</li> </ul>                                                                                  | 35.2 A             |
| <ul style="list-style-type: none"> <li>• at AC-5b up to 400 V rated value</li> </ul>                                                                                  | 20.7 A             |
| <ul style="list-style-type: none"> <li>• at AC-6a <ul style="list-style-type: none"> <li>— up to 230 V for current peak value n=20 rated value</li> </ul> </li> </ul> | 20.2 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>                                                               | 20.2 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>                                                               | 20.2 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>                                                               | 12.9 A             |
| <ul style="list-style-type: none"> <li>• at AC-6a <ul style="list-style-type: none"> <li>— up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul> | 13.5 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>                                                               | 13.5 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>                                                               | 13.5 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>                                                               | 13 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                     | 10 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b>                                                                                                |                    |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                              | 9 A                |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                              | 9 A                |
| <b>operational current</b>                                                                                                                                            |                    |
| <ul style="list-style-type: none"> <li>• at 1 current path at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>                | 35 A               |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 4.5 A              |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 1 A                |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                              | 0.4 A              |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                              | 0.25 A             |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>   | 35 A               |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 35 A               |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 5 A                |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                              | 1 A                |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                              | 0.8 A              |
| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>   | 35 A               |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 35 A               |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 35 A               |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                              | 2.9 A              |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                              | 1.4 A              |
| <b>operational current</b>                                                                                                                                            |                    |

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| <ul style="list-style-type: none"> <li>• at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 20 A<br>2.5 A<br>1 A<br>0.09 A<br>0.06 A<br><br>35 A<br>15 A<br>3 A<br>0.27 A<br>0.16 A<br><br>35 A<br>35 A<br>10 A<br>0.6 A<br>0.6 A                                                                                                                                                                         |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.5 kW<br>11 kW<br>11 kW<br>11 kW                                                                                                                                                                                                                                                                             |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.4 kW<br>7.7 kW                                                                                                                                                                                                                                                                                              |
| <b>operating apparent power at AC-6a</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• up to 230 V for current peak value n=20 rated value</li> <li>• up to 400 V for current peak value n=20 rated value</li> <li>• up to 500 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8 kV·A<br>13.9 kV·A<br>17.4 kV·A<br>15.4 kV·A                                                                                                                                                                                                                                                                 |
| <b>operating apparent power at AC-6a</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• up to 230 V for current peak value n=30 rated value</li> <li>• up to 400 V for current peak value n=30 rated value</li> <li>• up to 500 V for current peak value n=30 rated value</li> <li>• up to 690 V for current peak value n=30 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.3 kV·A<br>9.3 kV·A<br>11.6 kV·A<br>15.5 kV·A                                                                                                                                                                                                                                                                |
| <b>short-time withstand current in cold operating state up to 40 °C</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• limited to 1 s switching at zero current maximum</li> <li>• limited to 5 s switching at zero current maximum</li> <li>• limited to 10 s switching at zero current maximum</li> <li>• limited to 30 s switching at zero current maximum</li> <li>• limited to 60 s switching at zero current maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 375 A; Use minimum cross-section acc. to AC-1 rated value<br>299 A; Use minimum cross-section acc. to AC-1 rated value<br>200 A; Use minimum cross-section acc. to AC-1 rated value<br>128 A; Use minimum cross-section acc. to AC-1 rated value<br>106 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 500 1/h<br>1 500 1/h                                                                                                                                                                                                                                                                                        |
| <b>operating frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-4 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 000 1/h<br>750 1/h<br>750 1/h<br>250 1/h                                                                                                                                                                                                                                                                    |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                               |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AC/DC                                                                                                                                                                                                                                                                                                         |
| <b>control supply voltage at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 95 ... 130 V<br>95 ... 130 V                                                                                                                                                                                                                                                                                  |
| <b>control supply voltage at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                       |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                                                                                                                                                                       | 95 ... 130 V                                      |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b>                                                                                                                                                                                 |                                                   |
| <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>                                                                                                                                                                         | 0.7<br>1.3                                        |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b>                                                                                                                                                                                 |                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                      | 0.7 ... 1.3<br>0.7 ... 1.3                        |
| <b>design of the surge suppressor</b>                                                                                                                                                                                                                                 | with varistor                                     |
| <b>inrush current peak</b>                                                                                                                                                                                                                                            | 15 A                                              |
| <b>duration of inrush current peak</b>                                                                                                                                                                                                                                | 30 µs                                             |
| <b>locked-rotor current mean value</b>                                                                                                                                                                                                                                | 0.13 A                                            |
| <b>locked-rotor current peak</b>                                                                                                                                                                                                                                      | 0.19 A                                            |
| <b>duration of locked-rotor current</b>                                                                                                                                                                                                                               | 180 ms                                            |
| <b>holding current mean value</b>                                                                                                                                                                                                                                     | 19 mA                                             |
| <b>apparent pick-up power of magnet coil at AC</b>                                                                                                                                                                                                                    |                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                      | 11.9 V·A<br>12 V·A                                |
| <b>inductive power factor with closing power of the coil</b>                                                                                                                                                                                                          |                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                      | 0.98<br>0.98                                      |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                    |                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                      | 1.6 V·A<br>1.8 V·A                                |
| <b>inductive power factor with the holding power of the coil</b>                                                                                                                                                                                                      |                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                      | 0.79<br>0.74                                      |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                             | 10.2 W                                            |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                             | 1.3 W                                             |
| <b>closing delay</b>                                                                                                                                                                                                                                                  |                                                   |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                            | 50 ... 80 ms<br>50 ... 75 ms                      |
| <b>opening delay</b>                                                                                                                                                                                                                                                  |                                                   |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                            | 30 ... 50 ms<br>35 ... 45 ms                      |
| <b>arcing time</b>                                                                                                                                                                                                                                                    | 10 ... 10 ms                                      |
| <b>control version of the switch operating mechanism</b>                                                                                                                                                                                                              | Standard A1 - A2                                  |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                              |                                                   |
| number of NC contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                    | 1                                                 |
| number of NO contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                    | 1                                                 |
| operational current at AC-12 maximum                                                                                                                                                                                                                                  | 10 A                                              |
| <b>operational current at AC-15</b>                                                                                                                                                                                                                                   |                                                   |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                              | 10 A<br>3 A<br>2 A<br>1 A                         |
| <b>operational current at DC-12</b>                                                                                                                                                                                                                                   |                                                   |
| <ul style="list-style-type: none"> <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> | 10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A |
| <b>operational current at DC-13</b>                                                                                                                                                                                                                                   |                                                   |

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| <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                         | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A                                                                                                                              |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                                                                   |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | 21 A<br>22 A                                                                                                                                                                      |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                                                                         | 2 hp<br>3 hp<br><br>5 hp<br>7.5 hp<br>15 hp<br>20 hp                                                                                                                              |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A600 / P600                                                                                                                                                                       |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                   |
| <b>design of the fuse link</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                                                         | gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)<br>gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)<br>gG: 10 A (500 V, 1 kA) |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                   |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface                                              |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715                                                                                            |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                               |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 mm                                                                                                                                                                             |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 45 mm                                                                                                                                                                             |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 107 mm                                                                                                                                                                            |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                                                                     |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                   |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | screw-type terminals                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                   | screw-type terminals<br>Screw-type terminals<br>Screw-type terminals                                                                                                                                                                                               |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul> | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br>2x (16 ... 12), 2x (14 ... 8) |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                   | 1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup>                                                                                                                                                                                   |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                      | 0.5 ... 2.5 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                         |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul>        | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14)                                                                                   |
| <b>AWG number as coded connectable conductor cross section</b> <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>                                                                                                                                           | 16 ... 8<br>20 ... 14                                                                                                                                                                                                                                              |

| Safety related data                                                                                                                         |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>product function mirror contact acc. to IEC 60947-4-1</b>                                                                                | Yes                                              |
| B10 value with high demand rate acc. to SN 31920                                                                                            | 450 000                                          |
| <b>proportion of dangerous failures</b>                                                                                                     |                                                  |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul> | 40 %<br>73 %                                     |
| failure rate [FIT] with low demand rate acc. to SN 31920                                                                                    | 100 FIT                                          |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>                                                                   | 20 y                                             |
| <b>protection class IP on the front acc. to IEC 60529</b>                                                                                   | IP20                                             |
| <b>touch protection on the front acc. to IEC 60529</b>                                                                                      | finger-safe, for vertical contact from the front |
| <b>suitability for use</b>                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>• safety-related switching OFF</li> </ul>                                                            | Yes                                              |

| Certificates/ approvals  |     |
|--------------------------|-----|
| General Product Approval | EMC |



[KC](#)



|                                       |                           |                   |
|---------------------------------------|---------------------------|-------------------|
| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---------------------------------------|---------------------------|-------------------|

[Type Examination Certificate](#)

[UK Declaration of Conformity](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)

Marine / Shipping



other

[Confirmation](#)



[Confirmation](#)

#### Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2026-1NF30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1NF30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1NF30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2026-1NF30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1NF30&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1NF30/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1NF30&objecttype=14&gridview=view1>







