



power contactor, AC-3 95 A, 45 kW / 400 V 2 NO + 2 NC, 110 V AC, 50 Hz  
Hz 120 V/60 Hz 3-pole, 3 NO, Size S3 screw terminal

|                                                                                                  |                              |
|--------------------------------------------------------------------------------------------------|------------------------------|
| product brand name                                                                               | SIRIUS                       |
| product designation                                                                              | Power contactor              |
| product type designation                                                                         | 3RT2                         |
| <b>General technical data</b>                                                                    |                              |
| size of contactor                                                                                | S3                           |
| 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                       | 19.8 W                       |
| • per pole                                                                                       | 6.6 W                        |
| power loss [W] for rated value of the current without load current share typical                 | 22 W                         |
| insulation voltage                                                                               |                              |
| • of main circuit with degree of pollution 3 rated value                                         | 1 000 V                      |
| • of auxiliary circuit with degree of pollution 3 rated value                                    | 690 V                        |
| surge voltage resistance                                                                         |                              |
| • of main circuit rated value                                                                    | 8 kV                         |
| • of auxiliary circuit rated value                                                               | 6 kV                         |
| maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 | 690 V                        |
| shock resistance at rectangular impulse                                                          |                              |
| • at AC                                                                                          | 6.7 g / 5 ms, 4.0 g / 10 ms  |
| shock resistance with sine pulse                                                                 |                              |
| • at AC                                                                                          | 10.6 g / 5 ms, 6.3 g / 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 Prohibitance (Date)                                                                    | 01.03.2017                   |
| <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               |
| relative humidity minimum                                                                        | 10 %                         |
| relative humidity at 55 °C acc. to IEC 60068-2-30                                                | 95 %                         |

|                                                                                                                                                                            |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>maximum</b>                                                                                                                                                             |                    |
| <b>Main circuit</b>                                                                                                                                                        |                    |
| <b>number of poles for main current circuit</b>                                                                                                                            | 3                  |
| <b>number of NO contacts for main contacts</b>                                                                                                                             | 3                  |
| <b>operating voltage at AC-3 rated value maximum</b>                                                                                                                       | 1 000 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>                                                              | 130 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>      | 130 A              |
| <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>                                                                   | 110 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>                                      | 95 A               |
| <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul>                                                                                                   | 95 A               |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                                   | 78 A               |
| <ul style="list-style-type: none"> <li>— at 1000 V rated value</li> </ul>                                                                                                  | 30 A               |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                           | 80 A               |
| <ul style="list-style-type: none"> <li>• at AC-5a up to 690 V rated value</li> </ul>                                                                                       | 114 A              |
| <ul style="list-style-type: none"> <li>• at AC-5b up to 400 V rated value</li> </ul>                                                                                       | 95 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>      | 84.4 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>                                                                    | 84.4 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>                                                                    | 84.4 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>                                                                    | 58 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>      | 56.3 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>                                                                    | 56.3 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>                                                                    | 56.3 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>                                                                    | 56.3 A             |
| <b>minimum cross-section in main circuit at maximum AC-1 rated value</b>                                                                                                   | 50 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>                                                                                                   | 42 A               |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                                   | 30 A               |
| <b>operational current</b>                                                                                                                                                 |                    |
| <ul style="list-style-type: none"> <li>• <b>at 1 current path at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>              | 100 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 9 A                |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 2 A                |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                                   | 0.6 A              |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                   | 0.4 A              |
| <ul style="list-style-type: none"> <li>• <b>with 2 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul> | 100 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 100 A              |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 10 A               |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                                   | 1.8 A              |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                   | 1 A                |
| <ul style="list-style-type: none"> <li>• <b>with 3 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul> | 100 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 100 A              |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 80 A               |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                                   | 4.5 A              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.6 A                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-3 at DC-5</b> <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>● <b>with 2 current paths in series at DC-3 at DC-5</b> <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>● <b>with 3 current paths in series at DC-3 at DC-5</b> <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> | 40 A<br>2.5 A<br>1 A<br>0.15 A<br>0.06 A<br><br>100 A<br>100 A<br>7 A<br>0.42 A<br>0.16 A<br><br>100 A<br>100 A<br>35 A<br>0.8 A<br>0.35 A                                                                                                                                                                        |
| <b>operating power</b> <ul style="list-style-type: none"> <li>● at AC-2 at 400 V rated value</li> <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> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45 kW<br><br>22 kW<br>45 kW<br>55 kW<br>75 kW<br>37 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22 kW<br>27.4 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 33 kV·A<br>58 kV·A<br>73 kV·A<br>69 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 22.4 kV·A<br>39 kV·A<br>48.7 kV·A<br>67.3 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>                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 725 A; Use minimum cross-section acc. to AC-1 rated value<br>1 297 A; Use minimum cross-section acc. to AC-1 rated value<br>946 A; Use minimum cross-section acc. to AC-1 rated value<br>610 A; Use minimum cross-section acc. to AC-1 rated value<br>486 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> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 000 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 900 1/h<br>350 1/h<br>850 1/h<br>250 1/h                                                                                                                                                                                                                                                                          |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AC                                                                                                                                                                                                                                                                                                                |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110 V<br>120 V                                                                                                                                                                                                                                                                                                    |

|                                                                                       |                                                 |
|---------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                                                 |
| • at 50 Hz                                                                            | 0.8 ... 1.1                                     |
| • at 60 Hz                                                                            | 0.8 ... 1.1                                     |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                                                 |
| • at 50 Hz                                                                            | 326 V·A                                         |
| • at 60 Hz                                                                            | 326 V·A                                         |
| <b>inductive power factor with closing power of the coil</b>                          |                                                 |
| • at 50 Hz                                                                            | 0.62                                            |
| • at 60 Hz                                                                            | 0.55                                            |
| <b>apparent holding power of magnet coil at AC</b>                                    |                                                 |
| • at 50 Hz                                                                            | 22 V·A                                          |
| • at 60 Hz                                                                            | 22 V·A                                          |
| <b>inductive power factor with the holding power of the coil</b>                      |                                                 |
| • at 50 Hz                                                                            | 0.36                                            |
| • at 60 Hz                                                                            | 0.4                                             |
| <b>closing delay</b>                                                                  |                                                 |
| • at AC                                                                               | 13 ... 50 ms                                    |
| <b>opening delay</b>                                                                  |                                                 |
| • at AC                                                                               | 10 ... 21 ms                                    |
| <b>arcing time</b>                                                                    | 10 ... 20 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                    | 2                                               |
| number of NO contacts for auxiliary contacts instantaneous contact                    | 2                                               |
| operational current at AC-12 maximum                                                  | 10 A                                            |
| <b>operational current at AC-15</b>                                                   |                                                 |
| • at 230 V rated value                                                                | 6 A                                             |
| • at 400 V rated value                                                                | 3 A                                             |
| • at 500 V rated value                                                                | 2 A                                             |
| • at 690 V rated value                                                                | 1 A                                             |
| <b>operational current at DC-12</b>                                                   |                                                 |
| • at 24 V rated value                                                                 | 10 A                                            |
| • at 48 V rated value                                                                 | 6 A                                             |
| • at 60 V rated value                                                                 | 6 A                                             |
| • at 110 V rated value                                                                | 3 A                                             |
| • at 125 V rated value                                                                | 2 A                                             |
| • at 220 V rated value                                                                | 1 A                                             |
| • at 600 V rated value                                                                | 0.15 A                                          |
| <b>operational current at DC-13</b>                                                   |                                                 |
| • at 24 V rated value                                                                 | 6 A                                             |
| • at 48 V rated value                                                                 | 2 A                                             |
| • at 60 V rated value                                                                 | 2 A                                             |
| • at 110 V rated value                                                                | 1 A                                             |
| • at 125 V rated value                                                                | 0.9 A                                           |
| • at 220 V rated value                                                                | 0.3 A                                           |
| • at 600 V rated value                                                                | 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>                                   |                                                 |
| • at 480 V rated value                                                                | 96 A                                            |
| • at 600 V rated value                                                                | 77 A                                            |
| <b>yielded mechanical performance [hp]</b>                                            |                                                 |
| • for single-phase AC motor                                                           |                                                 |
| — at 110/120 V rated value                                                            | 10 hp                                           |
| — at 230 V rated value                                                                | 20 hp                                           |
| • for 3-phase AC motor                                                                |                                                 |
| — at 200/208 V rated value                                                            | 30 hp                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| — at 220/230 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30 hp                                                                                                                                                                                          |
| — at 460/480 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 75 hp                                                                                                                                                                                          |
| — at 575/600 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 75 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)<br>gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)<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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 140 mm                                                                                                                                                                                         |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70 mm                                                                                                                                                                                          |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 195 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> | 20 mm<br>10 mm<br>10 mm<br>0 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm                                                                                |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>for main current circuit</li> <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<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>finely stranded with core end processing</li> </ul> </li> <li>at AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                                                                                        | 2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²)<br>2x (10 ... 1/0), 1x (10 ... 2)                                                                                                                     |
| <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>                                                                                                                                                                                                                                                                                                                                                                     | 2.5 ... 16 mm²<br>6 ... 70 mm²<br>2.5 ... 50 mm²                                                                                                                                               |
| <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 mm²<br>0.5 ... 2.5 mm²                                                                                                                                                             |
| <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> </ul>                                                                                                                                                                                                                                                                                                 | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)                                                                                                     |

|                                                                                                                                                                                 |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <ul style="list-style-type: none"> <li>at AWG cables for auxiliary contacts</li> </ul>                                                                                          | 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>              | 10 ... 2<br>20 ... 14                            |
| <b>Safety related data</b>                                                                                                                                                      |                                                  |
| B10 value with high demand rate acc. to SN 31920                                                                                                                                | 1 000 000                                        |
| <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 on</li> <li>safety-related switching OFF</li> </ul>                                  | Yes<br>Yes                                       |
| <b>Certificates/ approvals</b>                                                                                                                                                  |                                                  |
| <b>General Product Approval</b>                                                                                                                                                 |                                                  |



[Confirmation](#)



[KC](#)



|     |                                       |                           |                   |
|-----|---------------------------------------|---------------------------|-------------------|
| EMC | Functional Safety/Safety of Machinery | Declaration of Conformity | Marine / Shipping |
|-----|---------------------------------------|---------------------------|-------------------|



[Type Examination Certificate](#)



EG-Konf.

[UK Declaration of Conformity](#)



|                   |       |                |
|-------------------|-------|----------------|
| Marine / Shipping | other | Dangerous Good |
|-------------------|-------|----------------|



LRS



PRS



RINA



RMRS

[Confirmation](#)

[Transport Information](#)

#### 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=3RT2046-1AK64-3MA0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AK64-3MA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AK64-3MA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2046-1AK64-3MA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AK64-3MA0&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AK64-3MA0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AK64-3MA0&objecttype=14&gridview=view1>



