



Power contactor, AC-3 9 A, 4 kW / 400 V 1 NO, 220 V AC, 50 / 60 Hz, 3-pole, Size S00 Spring-type terminal

|                                                                                                  |                            |
|--------------------------------------------------------------------------------------------------|----------------------------|
| product brand name                                                                               | SIRIUS                     |
| product designation                                                                              | Power contactor            |
| product type designation                                                                         | 3RT2                       |
| <b>General technical data</b>                                                                    |                            |
| size of contactor                                                                                | S00                        |
| 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                       | 2.1 W                      |
| • per pole                                                                                       | 0.7 W                      |
| power loss [W] for rated value of the current without load current share typical                 | 4.2 W                      |
| surge voltage resistance                                                                         |                            |
| • of main circuit rated value                                                                    | 6 kV                       |
| • of auxiliary circuit rated value                                                               | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse                                                          |                            |
| • at AC                                                                                          | 6,7g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse                                                                 |                            |
| • at AC                                                                                          | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (switching cycles)                                                       |                            |
| • of contactor typical                                                                           | 30 000 000                 |
| • 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)                                                                    | 01.10.2009 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             |
| • ambient temperature during storage                                                             | -55 ... +80 °C             |
| <b>Main circuit</b>                                                                              |                            |
| number of poles for main current circuit                                                         | 3                          |
| number of NO contacts for main contacts                                                          | 3                          |
| • operating voltage at AC-3 rated value maximum                                                  | 690 V                      |

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| <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>                                                         | 22 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> | 22 A              |
| <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>                                                              | 20 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>                                 | 9 A               |
| <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul>                                                                                              | 7.7 A             |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                              | 6.7 A             |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                      | 8.5 A             |
| <ul style="list-style-type: none"> <li>• at AC-5a up to 690 V rated value</li> </ul>                                                                                  | 19.4 A            |
| <ul style="list-style-type: none"> <li>• at AC-5b up to 400 V rated value</li> </ul>                                                                                  | 7.4 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> | 5.3 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>                                                               | 5.3 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>                                                               | 5.3 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>                                                               | 5 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> | 3.5 A             |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>                                                               | 3.5 A             |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>                                                               | 3.6 A             |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>                                                               | 3.3 A             |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                     | 4 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>                                                                                              | 4.1 A             |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                              | 3.3 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>                | 20 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 2.1 A             |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 0.8 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>                                                                                              | 0.6 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>   | 20 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 12 A              |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 1.6 A             |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                              | 0.8 A             |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                              | 0.7 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>   | 20 A              |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 20 A              |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                              | 20 A              |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                              | 1.3 A             |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                              | 1 A               |
| <b>operational current</b>                                                                                                                                            |                   |
| <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> </ul> </li> </ul>        | 20 A              |

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| <ul style="list-style-type: none"> <li>— at 110 V rated value</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> </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> | 0.1 A<br><br>20 A<br>0.35 A<br><br>20 A<br>20 A<br>1.5 A<br>0.2 A<br>0.2 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> </ul> </li> </ul>                                                                                                                                                                                                           | 4 kW<br><br>2.2 kW<br>4 kW<br>4 kW<br>5.5 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>                                                                                                                                                                                                                                                                                                                                    | 2 kW<br>2.5 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>                                                                                                                                                                  | 2 kV·A<br>3.6 kV·A<br>4.6 kV·A<br>5.9 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>                                                                                                                                                                  | 1.3 kV·A<br>2.4 kV·A<br>3.1 kV·A<br>4 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>                                                                                | 155 A; Use minimum cross-section acc. to AC-1 rated value<br>111 A; Use minimum cross-section acc. to AC-1 rated value<br>86 A; Use minimum cross-section acc. to AC-1 rated value<br>66 A; Use minimum cross-section acc. to AC-1 rated value<br>55 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>                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 000 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>                                                                                                                                                                                                                                                                                                                                | 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                                                                                                                                                                                                                                                                                                         |
| <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>                                                                                                                                                                                                                                                                                                                                                                   | 220 V<br>220 V                                                                                                                                                                                                                                                                                             |
| <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>                                                                                                                                                                                                                                                                                                                                         | 0.8 ... 1.1<br>0.85 ... 1.1                                                                                                                                                                                                                                                                                |
| <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>                                                                                                                                                                                                                                                                                                                                                                            | 27 V·A<br>24.3 V·A                                                                                                                                                                                                                                                                                         |
| <b>inductive power factor with closing power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      | 0.8                                                                                                                                                                                                                                                                                                        |

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| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                       | 0.75                                                              |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                 |                                                                   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                                                                                                                                                                       | 4.2 V·A                                                           |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                       | 3.3 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> </ul>                                                                                                                                                                                                       | 0.25                                                              |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                       | 0.25                                                              |
| <b>closing delay</b>                                                                                                                                                                                                                                               |                                                                   |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                          | 9 ... 35 ms                                                       |
| <b>opening delay</b>                                                                                                                                                                                                                                               |                                                                   |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                          | 3.5 ... 14 ms                                                     |
| <b>arcing time</b>                                                                                                                                                                                                                                                 | 10 ... 15 ms                                                      |
| <b>control version of the switch operating mechanism</b>                                                                                                                                                                                                           | Standard A1 - A2                                                  |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                           |                                                                   |
| 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> </ul>                                                                                                                                                                                           | 10 A                                                              |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                                                                                                                           | 3 A                                                               |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>                                                                                                                                                                                           | 2 A                                                               |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                           | 1 A                                                               |
| <b>operational current at DC-12</b>                                                                                                                                                                                                                                |                                                                   |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>                                                                                                                                                                                            | 10 A                                                              |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>                                                                                                                                                                                            | 6 A                                                               |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>                                                                                                                                                                                            | 6 A                                                               |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>                                                                                                                                                                                           | 3 A                                                               |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>                                                                                                                                                                                           | 2 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 600 V rated value</li> </ul>                                                                                                                                                                                           | 0.15 A                                                            |
| <b>operational current at DC-13</b>                                                                                                                                                                                                                                |                                                                   |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>                                                                                                                                                                                            | 10 A                                                              |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>                                                                                                                                                                                            | 2 A                                                               |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>                                                                                                                                                                                            | 2 A                                                               |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>                                                                                                                                                                                           | 1 A                                                               |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>                                                                                                                                                                                           | 0.9 A                                                             |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>                                                                                                                                                                                           | 0.3 A                                                             |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                           | 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> </ul>                                                                                                                                                                                           | 7.6 A                                                             |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                           | 9 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> </ul>                                                                        | 0.33 hp<br>1 hp                                                   |
| <ul style="list-style-type: none"> <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>5 hp<br>7.5 hp                                    |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                        | A600 / Q600                                                       |
| <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> </ul> </li> </ul>                                                                     | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |

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|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| — with type of assignment 2 required                              | gG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)                                                                 |
| • for short-circuit protection of the auxiliary switch required   | 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                                               |
| • side-by-side mounting                                           | Yes                                                                                                                                  |
| <b>height</b>                                                     | 70 mm                                                                                                                                |
| <b>width</b>                                                      | 45 mm                                                                                                                                |
| <b>depth</b>                                                      | 73 mm                                                                                                                                |
| <b>required spacing</b>                                           |                                                                                                                                      |
| • with side-by-side mounting                                      |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 0 mm                                                                                                                                 |
| • for grounded parts                                              |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — at the side                                                     | 6 mm                                                                                                                                 |
| — downwards                                                       | 10 mm                                                                                                                                |
| • for live parts                                                  |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 6 mm                                                                                                                                 |
| <b>Connections/ Terminals</b>                                     |                                                                                                                                      |
| <b>type of electrical connection</b>                              |                                                                                                                                      |
| • for main current circuit                                        | spring-loaded terminals                                                                                                              |
| • for auxiliary and control circuit                               | spring-loaded terminals                                                                                                              |
| • at contactor for auxiliary contacts                             | Spring-type terminals                                                                                                                |
| • of magnet coil                                                  | Spring-type terminals                                                                                                                |
| <b>type of connectable conductor cross-sections</b>               |                                                                                                                                      |
| • for main contacts                                               |                                                                                                                                      |
| — solid                                                           | 2x (0.5 ... 4 mm <sup>2</sup> )                                                                                                      |
| — solid or stranded                                               | 2x (0,5 ... 4 mm <sup>2</sup> )                                                                                                      |
| — finely stranded with core end processing                        | 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                                                                    |
| — finely stranded without core end processing                     | 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                                                                    |
| • at AWG cables for main contacts                                 | 2x (20 ... 12)                                                                                                                       |
| <b>connectable conductor cross-section for main contacts</b>      |                                                                                                                                      |
| • solid                                                           | 0.5 ... 4 mm <sup>2</sup>                                                                                                            |
| • stranded                                                        | 0.5 ... 4 mm <sup>2</sup>                                                                                                            |
| • finely stranded with core end processing                        | 0.5 ... 2.5 mm <sup>2</sup>                                                                                                          |
| • finely stranded without core end processing                     | 0.5 ... 2.5 mm <sup>2</sup>                                                                                                          |
| <b>connectable conductor cross-section for auxiliary contacts</b> |                                                                                                                                      |
| • solid or stranded                                               | 0.5 ... 4 mm <sup>2</sup>                                                                                                            |
| • finely stranded with core end processing                        | 0.5 ... 2.5 mm <sup>2</sup>                                                                                                          |
| • finely stranded without core end processing                     | 0.5 ... 2.5 mm <sup>2</sup>                                                                                                          |
| <b>type of connectable conductor cross-sections</b>               |                                                                                                                                      |
| • for auxiliary contacts                                          |                                                                                                                                      |
| — solid or stranded                                               | 2x (0,5 ... 4 mm <sup>2</sup> )                                                                                                      |
| — finely stranded with core end processing                        | 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                                                                    |
| — finely stranded without core end processing                     | 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                                                                    |
| • at AWG cables for auxiliary contacts                            | 2x (20 ... 12)                                                                                                                       |

- AWG number as coded connectable conductor cross section for main contacts
- AWG number as coded connectable conductor cross section for auxiliary contacts

20 ... 12

20 ... 12

#### Safety related data

|                                                                           |                                                  |
|---------------------------------------------------------------------------|--------------------------------------------------|
| B10 value with high demand rate acc. to SN 31920                          | 1 000 000                                        |
| <b>proportion of dangerous failures</b>                                   |                                                  |
| • with low demand rate acc. to SN 31920                                   | 40 %                                             |
| • with high demand rate acc. to SN 31920                                  | 73 %                                             |
| failure rate [FIT] with low demand rate acc. to SN 31920                  | 100 FIT                                          |
| <b>product function</b>                                                   |                                                  |
| • mirror contact acc. to IEC 60947-4-1                                    | Yes; with 3RH29                                  |
| <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 |
| suitability for use safety-related switching OFF                          | Yes                                              |

#### Certificates/ approvals

General Product Approval

EMC



[KC](#)



Declaration of Conformity

Test Certificates

Marine / Shipping

[Miscellaneous](#)



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[Confirmation](#)

other



[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=3RT2016-2AN21>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2AN21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AN21>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2016-2AN21&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AN21&lang=en)

Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AN21/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AN21&objecttype=14&gridview=view1>





