

power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, communication-capable

|                                                                                                              |                              |
|--------------------------------------------------------------------------------------------------------------|------------------------------|
| 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                                                                          | Yes                          |
| • auxiliary switch                                                                                           | Yes                          |
| power loss [W] for rated value of the current                                                                |                              |
| • at AC in hot operating state                                                                               | 0.6 W                        |
| • at AC in hot operating state per pole                                                                      | 0.2 W                        |
| • without load current share typical                                                                         | 4 W                          |
| type of calculation of power loss current-dependent                                                          | quadratic                    |
| insulation voltage                                                                                           |                              |
| • of main circuit with degree of pollution 3 rated value                                                     | 690 V                        |
| • of auxiliary circuit with degree of pollution 3 rated value                                                | 690 V                        |
| surge voltage resistance                                                                                     |                              |
| • of main circuit rated value                                                                                | 6 kV                         |
| • of auxiliary circuit rated value                                                                           | 6 kV                         |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                        |
| shock resistance at rectangular impulse                                                                      |                              |
| • at DC                                                                                                      | 6,7 g / 5 ms, 4,2 g / 10 ms  |
| shock resistance with sine pulse                                                                             |                              |
| • at DC                                                                                                      | 10,5 g / 5 ms, 6,6 g / 10 ms |
| mechanical service life (operating 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 according to IEC 81346-2                                                                      | Q                            |
| Substance Prohibition (day/month/year)                                                                       | 10/01/2009                   |
| SVHC substance name                                                                                          | Lead CAS-No. 7439-92-1       |
| Net Weight                                                                                                   | 0.316 g                      |
| <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 according to IEC 60068-2-30 maximum                                               | 95 %                         |
| <b>Main circuit</b>                                                                                          |                              |
| number of poles for main current circuit                                                                     | 3                            |
| number of NO contacts for main contacts                                                                      | 3                            |
| number of NC contacts for main contacts                                                                      | 0                            |
| operating voltage                                                                                            |                              |
| • at AC-3 rated value maximum                                                                                | 690 V                        |
| • at AC-3e rated value maximum                                                                               | 690 V                        |
| operational current                                                                                          |                              |

|                                                                                                                                                                            |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <ul style="list-style-type: none"> <li>• at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>                                                              | 18 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>      | 18 A                |
| <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>                                                                   | 16 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>                                      | 7 A                 |
| <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul>                                                                                                   | 6 A                 |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                                   | 4.9 A               |
| <ul style="list-style-type: none"> <li>• at AC-3e <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                                     | 7 A                 |
| <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul>                                                                                                   | 6 A                 |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                                   | 4.9 A               |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                           | 6.5 A               |
| <ul style="list-style-type: none"> <li>• at AC-5a up to 690 V rated value</li> </ul>                                                                                       | 15.8 A              |
| <ul style="list-style-type: none"> <li>• at AC-5b up to 400 V rated value</li> </ul>                                                                                       | 5.8 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>      | 4 A                 |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>                                                                    | 4 A                 |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>                                                                    | 3.8 A               |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>                                                                    | 3.6 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>      | 2.7 A               |
| <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>                                                                    | 2.7 A               |
| <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>                                                                    | 2.5 A               |
| <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>                                                                    | 2.4 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                          | 2.5 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>                                                                                                   | 2.6 A               |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                                   | 1.8 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>              | 15 A                |
| <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul>                                                                                                    | 15 A                |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 1.5 A               |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 0.6 A               |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                                   | 0.42 A              |
| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                   | 0.42 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> | 15 A                |
| <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul>                                                                                                    | 15 A                |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 8.4 A               |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 1.2 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>                                                                                                   | 0.5 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> | 15 A                |
| <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul>                                                                                                    | 15 A                |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                                   | 15 A                |
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul>                                                                                                   | 15 A                |
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul>                                                                                                   | 0.9 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>• <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> </ul> </li> </ul>      | 15 A                |
| <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul>                                                                                                    | 0.35 A              |
| <ul style="list-style-type: none"> <li>• <b>with 2 current paths in series at DC-3 at DC-5</b></li> </ul>                                                                  |                     |

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| <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</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 60 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>                   | 15 A<br>3.5 A<br>0.25 A<br><br>15 A<br>15 A<br>15 A<br>1.2 A<br>0.14 A<br>0.14 A                                                                                                                                                                                                                          |
| <b>operating power</b> <ul style="list-style-type: none"> <li>● at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>● at AC-3e <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> | 1.5 kW<br>3 kW<br>3 kW<br>4 kW<br><br>1.5 kW<br>3 kW<br>3 kW<br>4 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>                                                                                                                                                                                                                                                                                | 1.15 kW<br>1.15 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>                                                                                                              | 1.5 kVA<br>2.7 kVA<br>3.3 kVA<br>4.3 kVA                                                                                                                                                                                                                                                                  |
| <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 kVA<br>1.8 kVA<br>2.2 kVA<br>2.9 kVA                                                                                                                                                                                                                                                                    |
| <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>                            | 120 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>67 A; Use minimum cross-section acc. to AC-1 rated value<br>52 A; Use minimum cross-section acc. to AC-1 rated value<br>43 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 DC</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-3e <ul style="list-style-type: none"> <li>— maximum</li> </ul> </li> <li>● at AC-4 maximum</li> </ul>                                                                                                                                                                                           | 1 000 1/h<br>750 1/h<br>750 1/h<br><br>750 1/h<br>250 1/h                                                                                                                                                                                                                                                 |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                           |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                       | DC                                                                                                                                                                                                                                                                                                        |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                            | 24 V                                                                                                                                                                                                                                                                                                      |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> <ul style="list-style-type: none"> <li>● initial value</li> <li>● full-scale value</li> </ul>                                                                                                                                                                                                                                                                        | 0.8<br>1.1                                                                                                                                                                                                                                                                                                |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 W                                                                                                                                                                                                                                                                                                       |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 W                                                                                                                                                                                                                                                                                                       |

|                                                                                                           |                                                                                                                                      |
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| <b>closing delay</b>                                                                                      |                                                                                                                                      |
| • at DC                                                                                                   | 30 ... 100 ms                                                                                                                        |
| <b>opening delay</b>                                                                                      |                                                                                                                                      |
| • at DC                                                                                                   | 7 ... 13 ms                                                                                                                          |
| <b>arcing time</b>                                                                                        | 10 ... 15 ms                                                                                                                         |
| <b>control version of the switch operating mechanism</b>                                                  | Standard A1 - A2, optionally via function module                                                                                     |
| <b>Auxiliary circuit</b>                                                                                  |                                                                                                                                      |
| number of NC contacts for auxiliary contacts instantaneous contact                                        | 1                                                                                                                                    |
| number of NO contacts for auxiliary contacts instantaneous contact                                        | 0                                                                                                                                    |
| operational current at AC-12 maximum                                                                      | 10 A                                                                                                                                 |
| <b>operational current at AC-15</b>                                                                       |                                                                                                                                      |
| • at 230 V rated value                                                                                    | 10 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                                                                                     | 10 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                                                                                    | 4.8 A                                                                                                                                |
| • at 600 V rated value                                                                                    | 6.1 A                                                                                                                                |
| <b>yielded mechanical performance [hp]</b>                                                                |                                                                                                                                      |
| • for single-phase AC motor                                                                               |                                                                                                                                      |
| — at 110/120 V rated value                                                                                | 0.25 hp                                                                                                                              |
| — at 230 V rated value                                                                                    | 0.75 hp                                                                                                                              |
| • for 3-phase AC motor                                                                                    |                                                                                                                                      |
| — at 200/208 V rated value                                                                                | 1.5 hp                                                                                                                               |
| — at 220/230 V rated value                                                                                | 2 hp                                                                                                                                 |
| — at 460/480 V rated value                                                                                | 3 hp                                                                                                                                 |
| — at 575/600 V rated value                                                                                | 5 hp                                                                                                                                 |
| <b>contact rating of auxiliary contacts according to UL</b>                                               | A600 / Q600                                                                                                                          |
| <b>Short-circuit protection</b>                                                                           |                                                                                                                                      |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA                                                                                                       |
| <b>design of the fuse link</b>                                                                            |                                                                                                                                      |
| • for short-circuit protection of the main circuit                                                        |                                                                                                                                      |
| — with type of coordination 1 required                                                                    | gG: 35 A (690 V, 100 kA), aM: 20 A (690 V, 100 kA), BS88: 35 A (415 V, 80 kA)                                                        |
| — with type of coordination 2 required                                                                    | gG: 20 A (690 V, 100 kA), aM: 16 A (690 V, 100 kA), BS88: 20 A (415 V, 80 kA)                                                        |
| • 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 |
| fastening method side-by-side mounting                                                                    | Yes                                                                                                                                  |

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| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                             |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70 mm                                                                                                |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45 mm                                                                                                |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 73 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 10 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 10 mm</li> <li>— upwards 10 mm</li> <li>— at the side 6 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 10 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 6 mm</li> </ul> </li> </ul> |                                                                                                      |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                 | spring-loaded terminals<br>spring-loaded terminals<br>Spring-type terminals<br>Spring-type terminals |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                      |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid 2x (0.5 ... 4 mm<sup>2</sup>)</li> <li>— solid or stranded 2x (0,5 ... 4 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> <li>— finely stranded without core end processing 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>• for AWG cables for main contacts 2x (20 ... 12)</li> </ul>                                                                                                                                    |                                                                                                      |
| <b>connectable conductor cross-section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                      |
| <ul style="list-style-type: none"> <li>• solid 0.5 ... 4 mm<sup>2</sup></li> <li>• stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> <li>• finely stranded without core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                   |                                                                                                      |
| <b>connectable conductor cross-section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                      |
| <ul style="list-style-type: none"> <li>• solid or stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> <li>• finely stranded without core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                    |                                                                                                      |
| <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 2x (0,5 ... 4 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> <li>— finely stranded without core end processing 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>• for AWG cables for auxiliary contacts 2x (20 ... 12)</li> </ul>                                                                                                                                                                         |                                                                                                      |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20 ... 12                                                                                            |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20 ... 12                                                                                            |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                      |
| <b>product function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                      |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> <li>• suitable for safety function</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            | Yes<br>No<br>Yes                                                                                     |
| suitability for use safety-related switching OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes                                                                                                  |
| <b>service life maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20 a                                                                                                 |

|                                                               |                                                  |
|---------------------------------------------------------------|--------------------------------------------------|
| test wear-related service life necessary                      | Yes                                              |
| proportion of dangerous failures                              |                                                  |
| • with low demand rate according to SN 31920                  | 40 %                                             |
| • with high demand rate according to SN 31920                 | 73 %                                             |
| B10 value with high demand rate according to SN 31920         | 1 000 000                                        |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT                                          |
| ISO 13849                                                     |                                                  |
| device type according to ISO 13849-1                          | 3                                                |
| overdimensioning according to ISO 13849-2 necessary           | Yes                                              |
| IEC 61508                                                     |                                                  |
| safety device type according to IEC 61508-2                   | Type A                                           |
| Electrical Safety                                             |                                                  |
| protection class IP on the front according to IEC 60529       | IP20                                             |
| touch protection on the front according to IEC 60529          | finger-safe, for vertical contact from the front |

#### Approvals Certificates

|                                                            |           |
|------------------------------------------------------------|-----------|
| Environmental Product Declaration                          |           |
| • global warming potential [CO2 eq] / during manufacturing | 1.42 kg   |
| • global warming potential [CO2 eq] / during operation     | 152 kg    |
| • global warming potential [CO2 eq] / after end of life    | -0.305 kg |
| • global warming potential [CO2 eq] / total                | 153 kg    |

#### Environment

#### General Product Approval

[Environmental Confirmations](#)



#### General Product Approval

#### EMV

#### Test Certificates



EG-Konf.



RCM

[Type Test Certificates/Test Report](#)

#### Test Certificates

#### Maritime application

[Special Test Certificate](#)



LRS



RINA

#### Maritime application

#### other

#### Railway



RMRS

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



[Special Test Certificate](#)

#### Dangerous goods

[Transport Information](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RT2015-2BB42-0CC0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42-0CC0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2015-2BB42-0CC0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2BB42-0CC0&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2BB42-0CC0>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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