



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0, multi-unit packaging, pack = 8 units

|                                                                                                              |                          |
|--------------------------------------------------------------------------------------------------------------|--------------------------|
| product brand name                                                                                           | SIRIUS                   |
| product designation                                                                                          | Power contactor          |
| product type designation                                                                                     | 3RT2                     |
| <b>General technical data</b>                                                                                |                          |
| size of contactor                                                                                            | S0                       |
| product extension                                                                                            |                          |
| • function module for communication                                                                          | No                       |
| • auxiliary switch                                                                                           | Yes                      |
| power loss [W] for rated value of the current                                                                |                          |
| • at AC in hot operating state                                                                               | 1.8 W                    |
| • at AC in hot operating state per pole                                                                      | 0.6 W                    |
| • without load current share typical                                                                         | 5.9 W                    |
| type of calculation of power loss depending on pole                                                          | quadratic                |
| 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                                                                                                      | 10g / 5 ms, 7,5g / 10 ms |
| shock resistance with sine pulse                                                                             |                          |
| • at DC                                                                                                      | 15g / 5 ms, 10g / 10 ms  |
| mechanical service life (operating cycles)                                                                   |                          |
| • of contactor typical                                                                                       | 10 000 000               |
| • of the contactor with added electronically optimized auxiliary switch block typical                        | 5 000 000                |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000               |
| reference code according to IEC 81346-2                                                                      | Q                        |
| Substance Prohibittance (Date)                                                                               | 10/01/2009               |
| Net Weight                                                                                                   | 0.663 kg                 |
| <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                        |

|                                                                        |                    |
|------------------------------------------------------------------------|--------------------|
| <b>number of NO contacts for main contacts</b>                         | 3                  |
| <b>number of NC contacts for main contacts</b>                         | 0                  |
| <b>operating voltage</b>                                               |                    |
| • at AC-3 rated value maximum                                          | 690 V              |
| • at AC-3e rated value maximum                                         | 690 V              |
| <b>operational current</b>                                             |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 40 A               |
| • at AC-1                                                              |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 40 A               |
| — up to 690 V at ambient temperature 60 °C rated value                 | 35 A               |
| • at AC-3                                                              |                    |
| — at 400 V rated value                                                 | 17 A               |
| — at 500 V rated value                                                 | 17 A               |
| — at 690 V rated value                                                 | 13 A               |
| • at AC-3e                                                             |                    |
| — at 400 V rated value                                                 | 17 A               |
| — at 500 V rated value                                                 | 17 A               |
| — at 690 V rated value                                                 | 13 A               |
| • at AC-4 at 400 V rated value                                         | 15.5 A             |
| • at AC-5a up to 690 V rated value                                     | 35.2 A             |
| • at AC-5b up to 400 V rated value                                     | 14.1 A             |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 11.4 A             |
| — up to 400 V for current peak value n=20 rated value                  | 11.4 A             |
| — up to 500 V for current peak value n=20 rated value                  | 11.4 A             |
| — up to 690 V for current peak value n=20 rated value                  | 11.3 A             |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 400 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 500 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 690 V for current peak value n=30 rated value                  | 7.6 A              |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 10 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 7.7 A              |
| • at 690 V rated value                                                 | 7.7 A              |
| <b>operational current</b>                                             |                    |
| • <b>at 1 current path at DC-1</b>                                     |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 60 V rated value                                                  | 20 A               |
| — at 110 V rated value                                                 | 4.5 A              |
| — at 220 V rated value                                                 | 1 A                |
| — at 440 V rated value                                                 | 0.4 A              |
| — at 600 V rated value                                                 | 0.25 A             |
| • <b>with 2 current paths in series at DC-1</b>                        |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 60 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 35 A               |
| — at 220 V rated value                                                 | 5 A                |
| — at 440 V rated value                                                 | 1 A                |
| — at 600 V rated value                                                 | 0.8 A              |
| • <b>with 3 current paths in series at DC-1</b>                        |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 60 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 35 A               |
| — at 220 V rated value                                                 | 35 A               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.9 A<br>1.4 A                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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> <li>● <b>with 2 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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> <li>● <b>with 3 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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> | 20 A<br>5 A<br>2.5 A<br>1 A<br>0.09 A<br>0.06 A<br><br>35 A<br>35 A<br>15 A<br>3 A<br>0.27 A<br>0.16 A<br><br>35 A<br>35 A<br>35 A<br>10 A<br>0.6 A<br>0.6 A                                                                                                                                                  |
| <b>operating power</b> <ul style="list-style-type: none"> <li>● at AC-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> <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>                                                                                                                                                                                                                                                                                                                                                                                                                         | 7.5 kW<br><br>4 kW<br>7.5 kW<br>7.5 kW<br>11 kW<br><br>4 kW<br>7.5 kW<br>7.5 kW<br>11 kW                                                                                                                                                                                                                      |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> <ul style="list-style-type: none"> <li>● at 400 V rated value</li> <li>● at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.5 kW<br>6 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4.5 kVA<br>7.8 kVA<br>9.9 kVA<br>13.6 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 kVA<br>5.2 kVA<br>6.6 kVA<br>9.1 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 225 A; Use minimum cross-section acc. to AC-1 rated value<br>225 A; Use minimum cross-section acc. to AC-1 rated value<br>189 A; Use minimum cross-section acc. to AC-1 rated value<br>140 A; Use minimum cross-section acc. to AC-1 rated value<br>115 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 500 1/h                                                                                                                                                                                                                                                                                                     |
| <b>operating frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                               |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-3e <ul style="list-style-type: none"> <li>— maximum</li> </ul> </li> <li>• at AC-4 maximum</li> </ul>                                                                                                         | 1 000 1/h<br>1 000 1/h<br>1 000 1/h<br>1 000 1/h<br>300 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>                                                                                                                                                                                                                                                                                                     | 5.9 W                                                       |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                     | 5.9 W                                                       |
| <b>closing delay</b>                                                                                                                                                                                                                                                                                                                          |                                                             |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                                     | 50 ... 170 ms                                               |
| <b>opening delay</b>                                                                                                                                                                                                                                                                                                                          |                                                             |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                                     | 15 ... 18 ms                                                |
| <b>arcing time</b>                                                                                                                                                                                                                                                                                                                            | 10 ... 10 ms                                                |
| <b>control version of the switch operating mechanism</b>                                                                                                                                                                                                                                                                                      | Standard A1 - A2                                            |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                      |                                                             |
| number of NC contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                                                                                            | 1                                                           |
| number of NO contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                                                                                            | 1                                                           |
| operational current at AC-12 maximum                                                                                                                                                                                                                                                                                                          | 10 A                                                        |
| <b>operational current at AC-15</b>                                                                                                                                                                                                                                                                                                           |                                                             |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                      | 10 A<br>3 A<br>2 A<br>1 A                                   |
| <b>operational current at DC-12</b>                                                                                                                                                                                                                                                                                                           |                                                             |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                         | 10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A           |
| <b>operational current at DC-13</b>                                                                                                                                                                                                                                                                                                           |                                                             |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                         | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A        |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                                                                              | 1 faulty switching per 100 million (17 V, 1 mA)             |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                         |                                                             |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                                                                                                                                                                           |                                                             |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                      | 14 A<br>17 A                                                |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                    |                                                             |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> </ul> </li> </ul> | 1 hp<br>3 hp<br>3 hp<br>5 hp                                |

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| — at 460/480 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 hp                                                                                                                                                                                    |
| — at 575/600 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 hp                                                                                                                                                                                    |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A600 / P600                                                                                                                                                                              |
| <b>Category Control Number (CCN)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E31519 (NLDX, NLDX7)                                                                                                                                                                     |
| <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> <ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                          | gG: 63 A (690 V, 100 kA), aM: 32 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kA)<br>gG: 25 A (690 V, 100 kA), aM: 20 A (690 V, 100 kA), BS88: 25 A (415 V, 80 kA)<br>gG: 10 A (500 V, 1 kA) |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface                                                     |
| fastening method side-by-side mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                                                                      |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                                                                                 |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 102 mm                                                                                                                                                                                   |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 45 mm                                                                                                                                                                                    |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 107 mm                                                                                                                                                                                   |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>with side-by-side mounting <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul> | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                                                                            |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                          |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>for main current circuit</li> <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</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> </li> <li>for AWG cables for main contacts</li> </ul>                                                                                                                                                            | 2x (1 ... 10 mm <sup>2</sup> )<br>2x (1 ... 10 mm <sup>2</sup> )<br>2x (1 ... 6 mm <sup>2</sup> )<br>2x (1 ... 6 mm <sup>2</sup> )<br>2x (18 ... 8)                                      |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>                                                                                                                                                                                                                                                                           | 1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup><br>1 ... 6 mm <sup>2</sup><br>1 ... 6 mm <sup>2</sup>                                                                               |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>                                                                                                                                                                                                                                                                            | 0.5 ... 2.5 mm <sup>2</sup><br>0.5 ... 1.5 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup>                                                                                                |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                          |

|                                                                                                                                                                                                                                                                                                               |                                                                                                                               |
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| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul> | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 14) |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>                                                                                                                                                                                                                              | 18 ... 8                                                                                                                      |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>                                                                                                                                                                                                                         | 20 ... 14                                                                                                                     |

#### Safety related data

|                                                                                                                                                                                                         |                                                  |
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| <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                                             |
| <b>test wear-related service life necessary</b>                                                                                                                                                         | Yes                                              |
| <b>proportion of dangerous failures</b>                                                                                                                                                                 |                                                  |
| <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul>                                                   | 40 %<br>73 %                                     |
| <b>B10 value with high demand rate according to SN 31920</b>                                                                                                                                            | 1 000 000                                        |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>                                                                                                                                    | 100 FIT                                          |
| <b>ISO 13849</b>                                                                                                                                                                                        |                                                  |
| <b>device type according to ISO 13849-1</b>                                                                                                                                                             | 3                                                |
| <b>overdimensioning according to ISO 13849-2 necessary</b>                                                                                                                                              | Yes                                              |
| <b>IEC 61508</b>                                                                                                                                                                                        |                                                  |
| <b>safety device type according to IEC 61508-2</b>                                                                                                                                                      | Type A                                           |
| <b>Electrical Safety</b>                                                                                                                                                                                |                                                  |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                          | IP20                                             |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                             | finger-safe, for vertical contact from the front |

#### 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=3RT2025-2BB40-Z W97>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2BB40-Z W97>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2025-2BB40-Z W97&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2BB40-Z W97&lang=en)

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-2BB40-Z W97>

##### Characteristic curves

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



