

power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 240 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

|                                                                                                              |                              |
|--------------------------------------------------------------------------------------------------------------|------------------------------|
| 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                                                                         | 1.9 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 AC                                                                                                      | 7,5 g / 5 ms, 4,7 g / 10 ms  |
| shock resistance with sine pulse                                                                             |                              |
| • at AC                                                                                                      | 11,8 g / 5 ms, 7,4 g / 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 Prohibition (day/month/year)                                                                       | 10/01/2009                   |
| Net Weight                                                                                                   | 0.399 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                                                                                          |                              |
| • at AC-1 at 400 V at ambient temperature 40 °C rated                                                        | 40 A                         |

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| value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                  |
| <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> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> <li>• at AC-3 <ul style="list-style-type: none"> <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 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>• at AC-4 at 400 V rated value</li> <li>• at AC-5a up to 690 V rated value</li> <li>• at AC-5b up to 400 V rated value</li> <li>• at AC-6a <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> </li> <li>• at AC-6a <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> </li> </ul> | 40 A<br>35 A<br>17 A<br>17 A<br>13 A<br>17 A<br>17 A<br>13 A<br>15.5 A<br>35.2 A<br>14.1 A<br>11.4 A<br>11.4 A<br>11.4 A<br>11.3 A<br>7.6 A<br>7.6 A<br>7.6 A<br>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.7 A<br>7.7 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> <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-1</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-1</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>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 220 V rated value</li> <li>— at 440 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                           | 35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>5 A<br>1 A<br>0.8 A<br>35 A<br>35 A<br>35 A<br>35 A<br>2.9 A<br>1.4 A<br>20 A<br>5 A<br>1 A<br>0.09 A |

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| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.06 A                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <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> | 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 AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 000 1/h                                                                                                                                                                                                                                                                                                     |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>● at AC-1 maximum</li> <li>● at AC-2 maximum</li> <li>● at AC-3 maximum</li> <li>● at AC-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><br>1 000 1/h<br>300 1/h                                                                                                                                                                                                                                               |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                               |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AC                                                                                                                                                                                                                                                                                                            |

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| <b>control supply voltage at AC</b><br>• at 50 Hz rated value                                                                                                                                                                                                                       | 240 V                                                |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b><br>• at 50 Hz                                                                                                                                                                                 | 0.8 ... 1.1                                          |
| <b>apparent pick-up power of magnet coil at AC</b><br>• at 50 Hz                                                                                                                                                                                                                    | 65 VA                                                |
| <b>inductive power factor with closing power of the coil</b><br>• at 50 Hz                                                                                                                                                                                                          | 0.82                                                 |
| <b>apparent holding power of magnet coil at AC</b><br>• at 50 Hz                                                                                                                                                                                                                    | 7.6 VA                                               |
| <b>inductive power factor with the holding power of the coil</b><br>• at 50 Hz                                                                                                                                                                                                      | 0.25                                                 |
| <b>closing delay</b><br>• at AC                                                                                                                                                                                                                                                     | 8 ... 40 ms                                          |
| <b>opening delay</b><br>• at AC                                                                                                                                                                                                                                                     | 4 ... 16 ms                                          |
| <b>arcing time</b>                                                                                                                                                                                                                                                                  | 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><br>• at 230 V rated value<br>• at 400 V rated value<br>• at 500 V rated value<br>• at 690 V rated value                                                                                                                                         | 10 A<br>3 A<br>2 A<br>1 A                            |
| <b>operational current at DC-12</b><br>• at 24 V rated value<br>• at 48 V rated value<br>• at 60 V rated value<br>• at 110 V rated value<br>• at 125 V rated value<br>• at 220 V rated value<br>• at 600 V rated value                                                              | 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><br>• at 24 V rated value<br>• at 48 V rated value<br>• at 60 V rated value<br>• at 110 V rated value<br>• at 125 V rated value<br>• at 220 V rated value<br>• at 600 V rated value                                                              | 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><br>• at 480 V rated value<br>• at 600 V rated value                                                                                                                                                                             | 14 A<br>17 A                                         |
| <b>yielded mechanical performance [hp]</b><br>• for single-phase AC motor<br>— at 110/120 V rated value<br>— at 230 V rated value<br>• for 3-phase AC motor<br>— at 200/208 V rated value<br>— at 220/230 V rated value<br>— at 460/480 V rated value<br>— at 575/600 V rated value | 1 hp<br>3 hp<br>3 hp<br>5 hp<br>10 hp<br>15 hp       |

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| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A600 / P600                                                                                                                                                                              |
| <b>UL File 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 85 mm                                                                                                                                                                                    |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 45 mm                                                                                                                                                                                    |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97 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>                                                                                                                                                                                                                                                                                         | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals                                                                                             |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for main contacts <ul style="list-style-type: none"> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                 | 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)<br>2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)<br>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²<br>2x (16 ... 12), 2x (14 ... 8)                 |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                | 1 ... 10 mm²<br>1 ... 10 mm²<br>1 ... 10 mm²                                                                                                                                             |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                 | 0.5 ... 2.5 mm²<br>0.5 ... 2.5 mm²                                                                                                                                                       |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>                                                                                                                                                                                                                      | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (20 ... 16), 2x (18 ... 14)                                                             |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16 ... 8                                                                                                                                                                                 |

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| AWG number as coded connectable conductor cross section for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                        |  | 20 ... 14                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |
| Safety related data                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
| product function                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
| • mirror contact according to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                           |  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                       |
| • positively driven operation according to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                              |  | No                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |
| • suitable for safety function                                                                                                                                                                                                                                                                                                                                                                                                        |  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                       |
| suitability for use safety-related switching OFF                                                                                                                                                                                                                                                                                                                                                                                      |  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                       |
| service life maximum                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 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                                                                                                                                                                                                                                                                                                                                                                            |  | 1.9 kg                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |
| • global warming potential [CO2 eq] / during operation                                                                                                                                                                                                                                                                                                                                                                                |  | 72.4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| • global warming potential [CO2 eq] / after end of life                                                                                                                                                                                                                                                                                                                                                                               |  | -0.117 kg                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |
| • global warming potential [CO2 eq] / total                                                                                                                                                                                                                                                                                                                                                                                           |  | 74.2 kg                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                           |  | General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| <a href="#">Environmental Confirmations</a>                                                                                                                                                                                                                                                                                                                                                                                           |  |      |                                                                                       |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                              |  | EMV                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Certificates                                                                     |
|      |  | <a href="#">Special Test Certificate</a>                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| Test Certificates                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |
| <a href="#">Type Test Certificates/Test Report</a>                                                                                                                                                                                                                                                                                                                                                                                    |  |      |                                                                                       |
| Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                  |  | other                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                    |  | <a href="#">Miscellaneous</a>                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Confirmation</a>                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <a href="#">Confirmation</a>                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <a href="#">Miscellaneous</a>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |
| Railway                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |

#### 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=3RT2025-1AU00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AU00>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2025-1AU00&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-1AU00&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1AU00>

**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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