



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

|                                                                                                              |                            |
|--------------------------------------------------------------------------------------------------------------|----------------------------|
| product brand name                                                                                           | SIRIUS                     |
| product designation                                                                                          | Power contactor            |
| product type designation                                                                                     | 3RT2                       |
| <b>General technical data</b>                                                                                |                            |
| size of contactor                                                                                            | S00                        |
| product extension                                                                                            |                            |
| • function module for communication                                                                          | No                         |
| • auxiliary switch                                                                                           | Yes                        |
| power loss [W] for rated value of the current                                                                |                            |
| • at AC in hot operating state                                                                               | 3 W                        |
| • at AC in hot operating state per pole                                                                      | 1 W                        |
| • without load current share typical                                                                         | 1.7 W                      |
| type of calculation of power loss depending on pole                                                          | 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                                                                                                      | 7,3g / 5 ms, 4,7g / 10 ms  |
| shock resistance with sine pulse                                                                             |                            |
| • at AC                                                                                                      | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles)                                                                   |                            |
| • of contactor typical                                                                                       | 30 000 000                 |
| • of the contactor with added electronically optimized auxiliary switch block typical                        | 5 000 000                  |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000                 |
| reference code according to IEC 81346-2                                                                      | Q                          |
| Substance Prohibitance (Date)                                                                                | 10/01/2009                 |
| Weight                                                                                                       | 0.234 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 %                       |

| Environmental footprint                                           |                   |
|-------------------------------------------------------------------|-------------------|
| Environmental Product Declaration(EPD)                            | Yes               |
| global warming potential [CO2 eq] total                           | 39.6 kg           |
| global warming potential [CO2 eq] during manufacturing            | 1.18 kg           |
| global warming potential [CO2 eq] during operation                | 38.5 kg           |
| global warming potential [CO2 eq] after end of life               | -0.155 kg         |
| Main circuit                                                      |                   |
| number of poles for main current circuit                          | 3                 |
| number of NO contacts for main contacts                           | 3                 |
| operating voltage                                                 |                   |
| • at AC-3 rated value maximum                                     | 690 V             |
| • at AC-3e rated value maximum                                    | 690 V             |
| operational current                                               |                   |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value       | 22 A              |
| • at AC-1                                                         |                   |
| — up to 690 V at ambient temperature 40 °C rated value            | 22 A              |
| — up to 690 V at ambient temperature 60 °C rated value            | 20 A              |
| • at AC-3                                                         |                   |
| — at 400 V rated value                                            | 16 A              |
| — at 500 V rated value                                            | 12.4 A            |
| — at 690 V rated value                                            | 8.9 A             |
| • at AC-3e                                                        |                   |
| — at 400 V rated value                                            | 16 A              |
| — at 500 V rated value                                            | 12.4 A            |
| — at 690 V rated value                                            | 8.9 A             |
| • at AC-4 at 400 V rated value                                    | 11.5 A            |
| • at AC-5a up to 690 V rated value                                | 19.4 A            |
| • at AC-5b up to 400 V rated value                                | 13.2 A            |
| • at AC-6a                                                        |                   |
| — up to 230 V for current peak value n=20 rated value             | 9.6 A             |
| — up to 400 V for current peak value n=20 rated value             | 9.6 A             |
| — up to 500 V for current peak value n=20 rated value             | 9.6 A             |
| — up to 690 V for current peak value n=20 rated value             | 8.9 A             |
| • at AC-6a                                                        |                   |
| — up to 230 V for current peak value n=30 rated value             | 6.6 A             |
| — up to 400 V for current peak value n=30 rated value             | 6.4 A             |
| — up to 500 V for current peak value n=30 rated value             | 6.4 A             |
| — up to 690 V for current peak value n=30 rated value             | 6.4 A             |
| minimum cross-section in main circuit at maximum AC-1 rated value | 4 mm <sup>2</sup> |
| operational current for approx. 200000 operating cycles at AC-4   |                   |
| • at 400 V rated value                                            | 5.5 A             |
| • at 690 V rated value                                            | 4.4 A             |
| operational current                                               |                   |
| • at 1 current path at DC-1                                       |                   |
| — at 24 V rated value                                             | 20 A              |
| — at 60 V rated value                                             | 20 A              |
| — at 110 V rated value                                            | 2.1 A             |
| — at 220 V rated value                                            | 0.8 A             |
| — at 440 V rated value                                            | 0.6 A             |
| — at 600 V rated value                                            | 0.6 A             |
| • with 2 current paths in series at DC-1                          |                   |
| — at 24 V rated value                                             | 20 A              |
| — at 60 V rated value                                             | 20 A              |
| — at 110 V rated value                                            | 12 A              |
| — at 220 V rated value                                            | 1.6 A             |
| — at 440 V rated value                                            | 0.8 A             |
| — at 600 V rated value                                            | 0.7 A             |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <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>• at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> </ul> </li> <li>• with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> </ul> </li> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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>20 A<br>20 A<br>20 A<br>1.3 A<br>1 A<br><br>20 A<br>0.5 A<br>0.15 A<br><br>20 A<br>5 A<br>0.35 A<br><br>20 A<br>20 A<br>20 A<br>1.5 A<br>0.2 A<br>0.2 A                                                                                                                                             |
| <b>operating power</b> <ul style="list-style-type: none"> <li>• at AC-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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 kW<br>7.5 kW<br>7.5 kW<br>7.5 kW<br><br>4 kW<br>7.5 kW<br>7.5 kW<br>7.5 kW                                                                                                                                                                                                                                |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.5 kW<br>3.5 kW                                                                                                                                                                                                                                                                                            |
| <b>operating apparent power at AC-6a</b> <ul style="list-style-type: none"> <li>• up to 230 V for current peak value n=20 rated value</li> <li>• up to 400 V for current peak value n=20 rated value</li> <li>• up to 500 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.8 kVA<br>6.6 kVA<br>8.3 kVA<br>10.6 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.5 kVA<br>4.4 kVA<br>5.5 kVA<br>7.6 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 300 A; Use minimum cross-section acc. to AC-1 rated value<br>169 A; Use minimum cross-section acc. to AC-1 rated value<br>128 A; Use minimum cross-section acc. to AC-1 rated value<br>92 A; Use minimum cross-section acc. to AC-1 rated value<br>74 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b> <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 000 1/h                                                                                                                                                                                                                                                                                                  |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-3e maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 000 1/h<br>750 1/h<br>750 1/h<br>750 1/h                                                                                                                                                                                                                                                                  |

|                                                                                                           |                                                 |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| • at AC-4 maximum                                                                                         | 250 1/h                                         |
| <b>Control circuit/ Control</b>                                                                           |                                                 |
| <b>type of voltage of the control supply voltage</b>                                                      | AC                                              |
| <b>control supply voltage at AC</b>                                                                       |                                                 |
| • at 50 Hz rated value                                                                                    | 110 V                                           |
| • at 60 Hz rated value                                                                                    | 120 V                                           |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b>                     |                                                 |
| • at 50 Hz                                                                                                | 0.8 ... 1.1                                     |
| • at 60 Hz                                                                                                | 0.8 ... 1.1                                     |
| <b>apparent pick-up power of magnet coil at AC</b>                                                        |                                                 |
| • at 50 Hz                                                                                                | 36 VA                                           |
| • at 60 Hz                                                                                                | 36 VA                                           |
| <b>inductive power factor with closing power of the coil</b>                                              |                                                 |
| • at 50 Hz                                                                                                | 0.8                                             |
| • at 60 Hz                                                                                                | 0.8                                             |
| <b>apparent holding power of magnet coil at AC</b>                                                        |                                                 |
| • at 50 Hz                                                                                                | 5.9 VA                                          |
| • at 60 Hz                                                                                                | 5.9 VA                                          |
| <b>inductive power factor with the holding power of the coil</b>                                          |                                                 |
| • at 50 Hz                                                                                                | 0.24                                            |
| • at 60 Hz                                                                                                | 0.24                                            |
| <b>closing delay</b>                                                                                      |                                                 |
| • at AC                                                                                                   | 9 ... 35 ms                                     |
| <b>opening delay</b>                                                                                      |                                                 |
| • at AC                                                                                                   | 4 ... 15 ms                                     |
| <b>arcing time</b>                                                                                        | 10 ... 15 ms                                    |
| <b>control version of the switch operating mechanism</b>                                                  | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>                                                                                  |                                                 |
| number of NC contacts for auxiliary contacts instantaneous contact                                        | 1                                               |
| operational current at AC-12 maximum                                                                      | 10 A                                            |
| <b>operational current at AC-15</b>                                                                       |                                                 |
| • at 230 V rated value                                                                                    | 10 A                                            |
| • at 400 V rated value                                                                                    | 3 A                                             |
| • at 500 V rated value                                                                                    | 2 A                                             |
| • at 690 V rated value                                                                                    | 1 A                                             |
| <b>operational current at DC-12</b>                                                                       |                                                 |
| • at 24 V rated value                                                                                     | 10 A                                            |
| • at 48 V rated value                                                                                     | 6 A                                             |
| • at 60 V rated value                                                                                     | 6 A                                             |
| • at 110 V rated value                                                                                    | 3 A                                             |
| • at 125 V rated value                                                                                    | 2 A                                             |
| • at 220 V rated value                                                                                    | 1 A                                             |
| • at 600 V rated value                                                                                    | 0.15 A                                          |
| <b>operational current at DC-13</b>                                                                       |                                                 |
| • at 24 V rated value                                                                                     | 10 A                                            |
| • at 48 V rated value                                                                                     | 2 A                                             |
| • at 60 V rated value                                                                                     | 2 A                                             |
| • at 110 V rated value                                                                                    | 1 A                                             |
| • at 125 V rated value                                                                                    | 0.9 A                                           |
| • at 220 V rated value                                                                                    | 0.3 A                                           |
| • at 600 V rated value                                                                                    | 0.1 A                                           |
| 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>contact reliability of auxiliary contacts</b>                                                          | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>UL/CSA ratings</b>                                                                                     |                                                 |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                       |                                                 |
| • at 480 V rated value                                                                                    | 14 A                                            |
| • at 600 V rated value                                                                                    | 11 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> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                                                                         | 1 hp<br>2 hp<br><br>3 hp<br>5 hp<br>10 hp<br>10 hp                                                                                                                                                     |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A600 / Q600                                                                                                                                                                                            |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                        |
| <b>design of the fuse link</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                                                         | gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)<br>gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)<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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 58 mm                                                                                                                                                                                                  |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 45 mm                                                                                                                                                                                                  |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 73 mm                                                                                                                                                                                                  |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</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 (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²<br>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| <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>                                                                                                                                                                                                                                                                                                                                                                                             | 0.5 ... 4 mm²<br>0.5 ... 4 mm²<br>0.5 ... 2.5 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 ... 4 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> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                             | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²                                                                                                                                                  |

|                                                                      |                                                  |
|----------------------------------------------------------------------|--------------------------------------------------|
| — finely stranded with core end processing                           | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)      |
| • for AWG cables for auxiliary contacts                              | 2x (20 ... 16), 2x (18 ... 14), 2x 12            |
| <b>AWG number as coded connectable conductor cross section</b>       |                                                  |
| • for main contacts                                                  | 20 ... 12                                        |
| • for auxiliary contacts                                             | 20 ... 12                                        |
| <b>Safety related data</b>                                           |                                                  |
| <b>product function</b>                                              |                                                  |
| • 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                                              |
| <b>service life maximum</b>                                          | 20 a                                             |
| <b>test wear-related service life necessary</b>                      | Yes                                              |
| <b>proportion of dangerous failures</b>                              |                                                  |
| • with low demand rate according to SN 31920                         | 40 %                                             |
| • with high demand rate according to SN 31920                        | 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 |
| <b>Approvals Certificates</b>                                        |                                                  |
| <b>General Product Approval</b>                                      |                                                  |



[Confirmation](#)



[KC](#)

| General Product Approval | EMV | Test Certificates | Marine / Shipping |
|--------------------------|-----|-------------------|-------------------|
|--------------------------|-----|-------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



[Miscellaneous](#)

| other | Railway | Environment |
|-------|---------|-------------|
|-------|---------|-------------|

[Confirmation](#)

[Confirmation](#)

[Special Test Certificate](#)



[Environmental Confirmations](#)

#### Further information

Information on the packaging

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

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=3RT2018-1AK62>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AK62>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AK62>

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

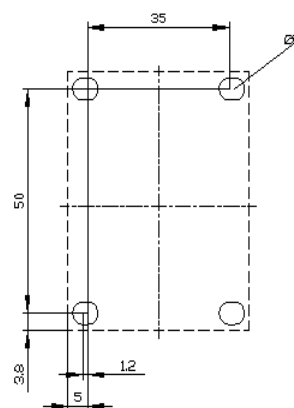
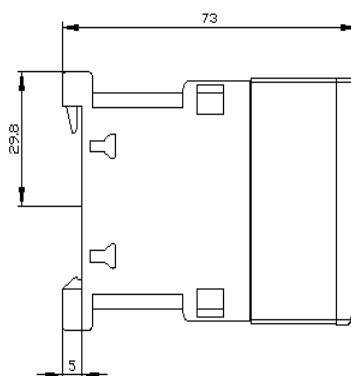
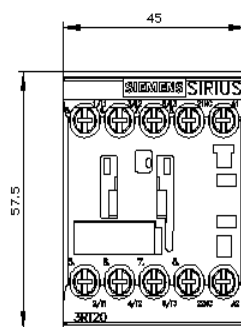
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2018-1AK62&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1AK62&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AK62/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1AK62&objecttype=14&gridview=view1>







last modified:

1/24/2025 