



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 48 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

|                                                                                                              |                               |
|--------------------------------------------------------------------------------------------------------------|-------------------------------|
| product brand name                                                                                           | SIRIUS                        |
| product designation                                                                                          | Power contactor               |
| product type designation                                                                                     | 3RT2                          |
| <b>General technical data</b>                                                                                |                               |
| size of contactor                                                                                            | S2                            |
| 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                                                                               | 11.4 W                        |
| • at AC in hot operating state per pole                                                                      | 3.8 W                         |
| • without load current share typical                                                                         | 6.5 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                                                                                                      | 11.8 g / 5 ms, 7.4 g / 10 ms  |
| shock resistance with sine pulse                                                                             |                               |
| • at AC                                                                                                      | 18.5 g / 5 ms, 11.6 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 Prohibitance (day/month/year)                                                                      | 10/01/2014                    |
| Net Weight                                                                                                   | 1.06 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                                                       | 95 %                          |

|                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| maximum                                                           |                    |
| <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 value       | 80 A               |
| • at AC-1                                                         |                    |
| — up to 690 V at ambient temperature 40 °C rated value            | 80 A               |
| — up to 690 V at ambient temperature 60 °C rated value            | 70 A               |
| • at AC-3                                                         |                    |
| — at 400 V rated value                                            | 65 A               |
| — at 500 V rated value                                            | 65 A               |
| — at 690 V rated value                                            | 47 A               |
| • at AC-3e                                                        |                    |
| — at 400 V rated value                                            | 65 A               |
| — at 500 V rated value                                            | 65 A               |
| — at 690 V rated value                                            | 47 A               |
| • at AC-4 at 400 V rated value                                    | 55 A               |
| • at AC-5a up to 690 V rated value                                | 70.4 A             |
| • at AC-5b up to 400 V rated value                                | 53.9 A             |
| • at AC-6a                                                        |                    |
| — up to 230 V for current peak value n=20 rated value             | 56.9 A             |
| — up to 400 V for current peak value n=20 rated value             | 56.9 A             |
| — up to 500 V for current peak value n=20 rated value             | 56.9 A             |
| — up to 690 V for current peak value n=20 rated value             | 47 A               |
| • at AC-6a                                                        |                    |
| — up to 230 V for current peak value n=30 rated value             | 38 A               |
| — up to 400 V for current peak value n=30 rated value             | 38 A               |
| — up to 500 V for current peak value n=30 rated value             | 38 A               |
| — up to 690 V for current peak value n=30 rated value             | 38 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value | 25 mm <sup>2</sup> |
| operational current for approx. 200000 operating cycles at AC-4   |                    |
| • at 400 V rated value                                            | 28 A               |
| • at 690 V rated value                                            | 22 A               |
| operational current                                               |                    |
| • at 1 current path at DC-1                                       |                    |
| — at 24 V rated value                                             | 55 A               |
| — at 60 V rated value                                             | 23 A               |
| — at 110 V rated value                                            | 4.5 A              |
| — at 220 V rated value                                            | 1 A                |
| — at 440 V rated value                                            | 0.4 A              |
| — at 600 V rated value                                            | 0.25 A             |
| • with 2 current paths in series at DC-1                          |                    |
| — at 24 V rated value                                             | 55 A               |
| — at 60 V rated value                                             | 45 A               |
| — at 110 V rated value                                            | 45 A               |
| — at 220 V rated value                                            | 5 A                |
| — at 440 V rated value                                            | 1 A                |
| — at 600 V rated value                                            | 0.8 A              |
| • with 3 current paths in series at DC-1                          |                    |
| — at 24 V rated value                                             | 55 A               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                 |
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| <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                                            | 55 A<br>55 A<br>45 A<br>2.9 A<br>1.4 A                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 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>6 A<br>1 A<br>0.1 A<br>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> </ul>                                                                                                                                                  | 55 A<br>45 A<br>25 A<br>5 A<br>0.27 A<br>0.16 A                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <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>                                                                                                                                                  | 55 A<br>55 A<br>55 A<br>25 A<br>0.6 A<br>0.35 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> | 30 kW<br>18.5 kW<br>30 kW<br>37 kW<br>37 kW<br>18.5 kW<br>30 kW<br>37 kW<br>37 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>                                                                                                                                                                                                                                                                                                                        | 14.7 kW<br>20 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>                                                                                                                                                      | 22.6 kVA<br>39.4 kVA<br>49.2 kVA<br>56.1 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>                                                                                                                                                      | 15.1 kVA<br>26.2 kVA<br>32.8 kVA<br>45.3 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>                                                                    | 1 055 A; Use minimum cross-section acc. to AC-1 rated value<br>730 A; Use minimum cross-section acc. to AC-1 rated value<br>520 A; Use minimum cross-section acc. to AC-1 rated value<br>336 A; Use minimum cross-section acc. to AC-1 rated value<br>272 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> </ul>                   | 800 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-2 maximum</li> </ul>                   | 400 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>                   | 700 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-3e</li> <li>— maximum</li> </ul>       | 700 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-4 maximum</li> </ul>                   | 200 1/h          |
| <b>Control circuit/ Control</b>                                                       |                  |
| <b>type of voltage of the control supply voltage</b>                                  | AC               |
| <b>control supply voltage at AC</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>              | 48 V             |
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>              | 48 V             |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.8 ... 1.1      |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.85 ... 1.1     |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 210 VA           |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 188 VA           |
| <b>inductive power factor with closing power of the coil</b>                          |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.69             |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.65             |
| <b>apparent holding power of magnet coil at AC</b>                                    |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 17.2 VA          |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 16.5 VA          |
| <b>inductive power factor with the holding power of the coil</b>                      |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.36             |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.39             |
| <b>closing delay</b>                                                                  |                  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 10 ... 80 ms     |
| <b>opening delay</b>                                                                  |                  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 10 ... 18 ms     |
| <b>arcing time</b>                                                                    | 10 ... 20 ms     |
| <b>control version of the switch operating mechanism</b>                              | Standard A1 - A2 |
| <b>Auxiliary circuit</b>                                                              |                  |
| number of NC contacts for auxiliary contacts instantaneous contact                    | 1                |
| number of NO contacts for auxiliary contacts instantaneous contact                    | 1                |
| operational current at AC-12 maximum                                                  | 10 A             |
| <b>operational current at AC-15</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>              | 10 A             |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>              | 3 A              |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>              | 2 A              |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>              | 1 A              |
| <b>operational current at DC-12</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>               | 10 A             |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>               | 6 A              |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>               | 6 A              |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>              | 3 A              |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>              | 2 A              |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>              | 1 A              |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>              | 0.15 A           |
| <b>operational current at DC-13</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>               | 10 A             |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>               | 2 A              |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>               | 2 A              |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>              | 1 A              |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>              | 0.9 A            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                               |
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| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.3 A<br>0.1 A                                                                                                                                                                                |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                                                                               |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                               |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | 65 A<br>52 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>                                                                                                         | 5 hp<br>10 hp<br><br>20 hp<br>20 hp<br>50 hp<br>50 hp                                                                                                                                         |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A600 / P600                                                                                                                                                                                   |
| <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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)<br>gG: 125 A (690 V, 100 kA), aM: 63 A (690 V, 100 kA), BS88: 100 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                                                          |
| <b>fastening method side-by-side mounting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                                                                                                                                                                           |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                                                                                      |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 114 mm                                                                                                                                                                                        |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 55 mm                                                                                                                                                                                         |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 130 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 terminal                                                                                                        |
| <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 or stranded</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²)                                                                                                                                                          |

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| — finely stranded with core end processing                                            | 2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )        |
| • for AWG cables for main contacts                                                    | 2x (18 ... 2), 1x (18 ... 1)                                          |
| <b>connectable conductor cross-section for main contacts</b>                          |                                                                       |
| • finely stranded with core end processing                                            | 1 ... 35 mm <sup>2</sup>                                              |
| <b>connectable conductor cross-section for auxiliary contacts</b>                     |                                                                       |
| • solid or stranded                                                                   | 0.5 ... 2.5 mm <sup>2</sup>                                           |
| • finely stranded with core end processing                                            | 0.5 ... 2.5 mm <sup>2</sup>                                           |
| <b>type of connectable conductor cross-sections</b>                                   |                                                                       |
| • for auxiliary contacts                                                              |                                                                       |
| — solid or stranded                                                                   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded with core end processing                                            | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • for AWG cables for auxiliary contacts                                               | 2x (20 ... 16), 2x (18 ... 14)                                        |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>      | 18 ... 1                                                              |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b> | 20 ... 14                                                             |

#### Safety related data

|                                                                      |                                                  |
|----------------------------------------------------------------------|--------------------------------------------------|
| <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                                          |
| ISO 13849                                                            |                                                  |
| <b>device type according to ISO 13849-1</b>                          | 3                                                |
| <b>overdimensioning according to ISO 13849-2 necessary</b>           | Yes                                              |
| IEC 61508                                                            |                                                  |
| <b>safety device type according to IEC 61508-2</b>                   | Type A                                           |
| Electrical Safety                                                    |                                                  |
| <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 |

#### Approvals Certificates

|                                                                        |                                 |
|------------------------------------------------------------------------|---------------------------------|
| Environmental Product Declaration                                      |                                 |
| • global warming potential [CO <sub>2</sub> eq] / during manufacturing | 4.11 kg                         |
| • global warming potential [CO <sub>2</sub> eq] / during operation     | 233 kg                          |
| • global warming potential [CO <sub>2</sub> eq] / after end of life    | -0.635 kg                       |
| • global warming potential [CO <sub>2</sub> eq] / total                | 236 kg                          |
| <b>Environment</b>                                                     | <b>General Product Approval</b> |

[Environmental Confirmations](#)



|                                 |            |                          |
|---------------------------------|------------|--------------------------|
| <b>General Product Approval</b> | <b>EMV</b> | <b>Test Certificates</b> |
|                                 |            |                          |
|                                 |            |                          |
|                                 |            |                          |

#### Maritime application



| Maritime application                                                              | other                         |                              |                              |                                                                                     | Railway                                  |
|-----------------------------------------------------------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|
|  | <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> | <a href="#">Confirmation</a> |  | <a href="#">Special Test Certificate</a> |

## Dangerous goods

[Transport Information](#)

## Further information

Information on the packaging

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

Information for data generation and storage

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

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AH20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AH20>

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

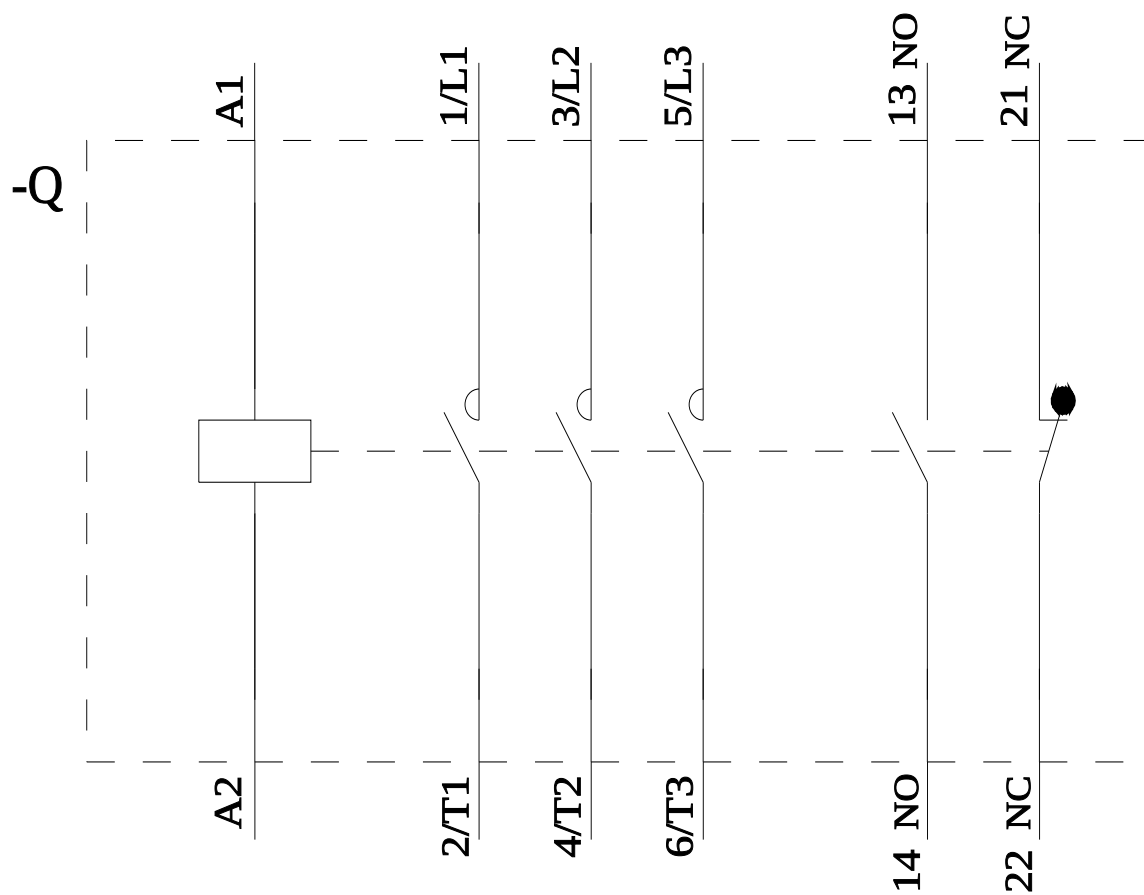
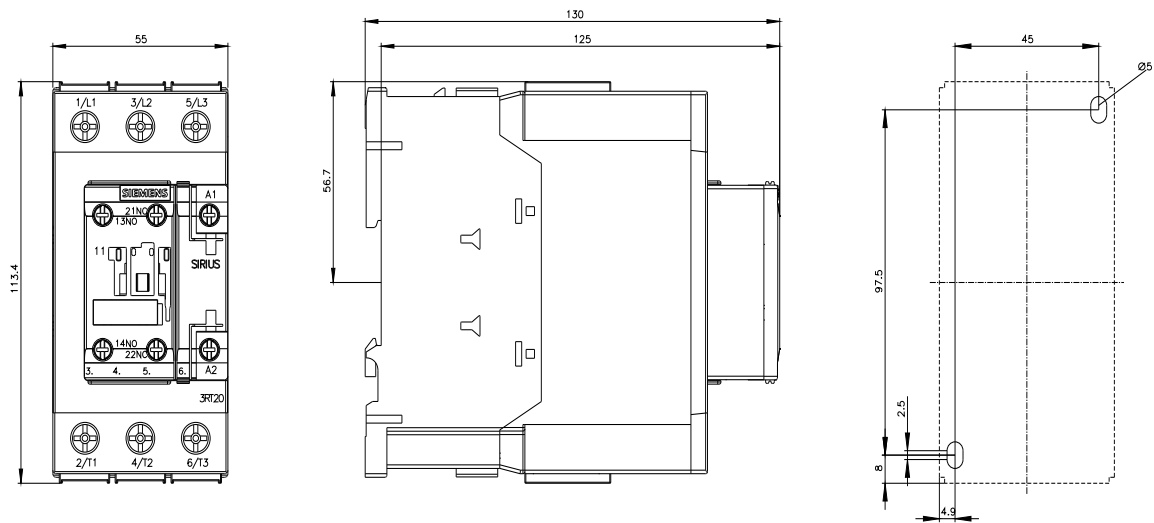
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2037-1AH20&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1AH20&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AH20>

Characteristic curves

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



last modified:

7/22/2026

