



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S3, removable auxiliary switch

|                                                                                                              |                            |
|--------------------------------------------------------------------------------------------------------------|----------------------------|
| product brand name                                                                                           | SIRIUS                     |
| product designation                                                                                          | Power contactor            |
| product type designation                                                                                     | 3RT2                       |
| <b>General technical data</b>                                                                                |                            |
| size of contactor                                                                                            | S3                         |
| 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                                                                               | 23.7 W                     |
| • at AC in hot operating state per pole                                                                      | 7.9 W                      |
| • without load current share typical                                                                         | 7.3 W                      |
| type of calculation of power loss depending on pole                                                          | quadratic                  |
| insulation voltage                                                                                           |                            |
| • of main circuit with degree of pollution 3 rated value                                                     | 1 000 V                    |
| • of auxiliary circuit with degree of pollution 3 rated value                                                | 690 V                      |
| surge voltage resistance                                                                                     |                            |
| • of main circuit rated value                                                                                | 8 kV                       |
| • of auxiliary circuit rated value                                                                           | 6 kV                       |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 690 V                      |
| shock resistance at rectangular impulse                                                                      |                            |
| • at AC                                                                                                      | 10.3g / 5 ms, 6.g / 10 ms  |
| shock resistance with sine pulse                                                                             |                            |
| • at AC                                                                                                      | 16.3g / 5 ms, 10.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 (Date)                                                                                |                            |
| Weight                                                                                                       | 1.765 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                                | 405 kg             |
| Global Warming Potential [CO2 eq] during manufacturing                 | 7.66 kg            |
| Global Warming Potential [CO2 eq] during operation                     | 399 kg             |
| Global Warming Potential [CO2 eq] after end of life                    | -1.19 kg           |
| Main circuit                                                           |                    |
| <b>number of poles for main current circuit</b>                        | 3                  |
| <b>number of NO contacts for main contacts</b>                         | 3                  |
| <b>operating voltage</b>                                               |                    |
| • at AC-3 rated value maximum                                          | 1 000 V            |
| • at AC-3e rated value maximum                                         | 1 000 V            |
| <b>operational current</b>                                             |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 130 A              |
| • at AC-1                                                              |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 130 A              |
| — up to 690 V at ambient temperature 60 °C rated value                 | 110 A              |
| • at AC-3                                                              |                    |
| — at 400 V rated value                                                 | 110 A              |
| — at 500 V rated value                                                 | 110 A              |
| — at 690 V rated value                                                 | 98 A               |
| — at 1000 V rated value                                                | 30 A               |
| • at AC-3e                                                             |                    |
| — at 400 V rated value                                                 | 110 A              |
| — at 500 V rated value                                                 | 110 A              |
| — at 690 V rated value                                                 | 98 A               |
| — at 1000 V rated value                                                | 30 A               |
| • at AC-4 at 400 V rated value                                         | 97 A               |
| • at AC-5a up to 690 V rated value                                     | 120 A              |
| • at AC-5b up to 400 V rated value                                     | 110 A              |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 98 A               |
| — up to 400 V for current peak value n=20 rated value                  | 98 A               |
| — up to 500 V for current peak value n=20 rated value                  | 98 A               |
| — up to 690 V for current peak value n=20 rated value                  | 98 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 65.3 A             |
| — up to 400 V for current peak value n=30 rated value                  | 65.3 A             |
| — up to 500 V for current peak value n=30 rated value                  | 65.3 A             |
| — up to 690 V for current peak value n=30 rated value                  | 65.3 A             |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 50 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 46 A               |
| • at 690 V rated value                                                 | 36 A               |
| <b>operational current</b>                                             |                    |
| • <b>at 1 current path at DC-1</b>                                     |                    |
| — at 24 V rated value                                                  | 100 A              |
| — at 60 V rated value                                                  | 60 A               |
| — at 110 V rated value                                                 | 9 A                |
| — at 220 V rated value                                                 | 2 A                |
| — at 440 V rated value                                                 | 0.6 A              |
| — at 600 V rated value                                                 | 0.4 A              |
| • <b>with 2 current paths in series at DC-1</b>                        |                    |
| — at 24 V rated value                                                  | 100 A              |
| — at 60 V rated value                                                  | 100 A              |
| — at 110 V rated value                                                 | 100 A              |
| — at 220 V rated value                                                 | 10 A               |

|                                                                         |                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------|
| — at 440 V rated value                                                  | 1.8 A                                                       |
| — at 600 V rated value                                                  | 1 A                                                         |
| ● <b>with 3 current paths in series at DC-1</b>                         |                                                             |
| — at 24 V rated value                                                   | 100 A                                                       |
| — at 60 V rated value                                                   | 100 A                                                       |
| — at 110 V rated value                                                  | 100 A                                                       |
| — at 220 V rated value                                                  | 80 A                                                        |
| — at 440 V rated value                                                  | 4.5 A                                                       |
| — at 600 V rated value                                                  | 2.6 A                                                       |
| ● <b>at 1 current path at DC-3 at DC-5</b>                              |                                                             |
| — at 24 V rated value                                                   | 40 A                                                        |
| — at 60 V rated value                                                   | 6 A                                                         |
| — at 110 V rated value                                                  | 2.5 A                                                       |
| — at 220 V rated value                                                  | 1 A                                                         |
| — at 440 V rated value                                                  | 0.15 A                                                      |
| — at 600 V rated value                                                  | 0.06 A                                                      |
| ● <b>with 2 current paths in series at DC-3 at DC-5</b>                 |                                                             |
| — at 24 V rated value                                                   | 100 A                                                       |
| — at 60 V rated value                                                   | 100 A                                                       |
| — at 110 V rated value                                                  | 100 A                                                       |
| — at 220 V rated value                                                  | 7 A                                                         |
| — at 440 V rated value                                                  | 0.42 A                                                      |
| — at 600 V rated value                                                  | 0.16 A                                                      |
| ● <b>with 3 current paths in series at DC-3 at DC-5</b>                 |                                                             |
| — at 24 V rated value                                                   | 100 A                                                       |
| — at 60 V rated value                                                   | 100 A                                                       |
| — at 110 V rated value                                                  | 100 A                                                       |
| — at 220 V rated value                                                  | 35 A                                                        |
| — at 440 V rated value                                                  | 0.8 A                                                       |
| — at 600 V rated value                                                  | 0.35 A                                                      |
| <b>operating power</b>                                                  |                                                             |
| ● at AC-2 at 400 V rated value                                          | 55 kW                                                       |
| ● at AC-3                                                               |                                                             |
| — at 230 V rated value                                                  | 30 kW                                                       |
| — at 400 V rated value                                                  | 55 kW                                                       |
| — at 500 V rated value                                                  | 75 kW                                                       |
| — at 690 V rated value                                                  | 90 kW                                                       |
| — at 1000 V rated value                                                 | 37 kW                                                       |
| ● at AC-3e                                                              |                                                             |
| — at 230 V rated value                                                  | 30 kW                                                       |
| — at 400 V rated value                                                  | 55 kW                                                       |
| — at 500 V rated value                                                  | 75 kW                                                       |
| — at 690 V rated value                                                  | 90 kW                                                       |
| — at 1000 V rated value                                                 | 37 kW                                                       |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>      |                                                             |
| ● at 400 V rated value                                                  | 24.3 kW                                                     |
| ● at 690 V rated value                                                  | 32.9 kW                                                     |
| <b>operating apparent power at AC-6a</b>                                |                                                             |
| ● up to 230 V for current peak value n=20 rated value                   | 39 kVA                                                      |
| ● up to 400 V for current peak value n=20 rated value                   | 67 kVA                                                      |
| ● up to 500 V for current peak value n=20 rated value                   | 84 kVA                                                      |
| ● up to 690 V for current peak value n=20 rated value                   | 117 kVA                                                     |
| <b>operating apparent power at AC-6a</b>                                |                                                             |
| ● up to 230 V for current peak value n=30 rated value                   | 26 kVA                                                      |
| ● up to 400 V for current peak value n=30 rated value                   | 45.2 kVA                                                    |
| ● up to 500 V for current peak value n=30 rated value                   | 56.5 kVA                                                    |
| ● up to 690 V for current peak value n=30 rated value                   | 78 kVA                                                      |
| <b>short-time withstand current in cold operating state up to 40 °C</b> |                                                             |
| ● limited to 1 s switching at zero current maximum                      | 1 960 A; Use minimum cross-section acc. to AC-1 rated value |

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <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> | 1 502 A; Use minimum cross-section acc. to AC-1 rated value<br>1 095 A; Use minimum cross-section acc. to AC-1 rated value<br>707 A; Use minimum cross-section acc. to AC-1 rated value<br>562 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>                                                                                                                                                                                                                         | 900 1/h                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• at AC-2 maximum</li> </ul>                                                                                                                                                                                                                         | 350 1/h                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>                                                                                                                                                                                                                         | 850 1/h                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• at AC-3e maximum</li> </ul>                                                                                                                                                                                                                        | 850 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>                                                                                                                                                                                                                    | 24 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                                                                                                                                                                                                                                          |
| <b>apparent pick-up power of magnet coil at AC</b>                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                                                                                                                                                                                                | 296 VA                                                                                                                                                                                                                                               |
| <b>inductive power factor with closing power of the coil</b>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                                                                                                                                                                                                | 0.61                                                                                                                                                                                                                                                 |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                                                                                                                                                                                                | 19 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>                                                                                                                                                                                                                                | 0.38                                                                                                                                                                                                                                                 |
| <b>closing delay</b>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                                                   | 13 ... 50 ms                                                                                                                                                                                                                                         |
| <b>opening delay</b>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                                                   | 10 ... 21 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                                                                                                                                                                                                                          | 2                                                                                                                                                                                                                                                    |
| number of NO contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                                          | 2                                                                                                                                                                                                                                                    |
| 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>                                                                                                                                                                                                                    | 6 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>                                                                                                                                                                                                                     | 6 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                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>                                                                                                                                                                                                                    | 0.3 A                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                    | 0.1 A                                                                                                                                                                                                                                                |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                            | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                                                                                                                                      |

| UL/CSA ratings                                                    |                                                                                                                                      |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>full-load current (FLA) for 3-phase AC motor</b>               |                                                                                                                                      |
| • at 480 V rated value                                            | 96 A                                                                                                                                 |
| • at 600 V rated value                                            | 99 A                                                                                                                                 |
| <b>yielded mechanical performance [hp]</b>                        |                                                                                                                                      |
| • for single-phase AC motor                                       |                                                                                                                                      |
| — at 110/120 V rated value                                        | 10 hp                                                                                                                                |
| — at 230 V rated value                                            | 20 hp                                                                                                                                |
| • for 3-phase AC motor                                            |                                                                                                                                      |
| — at 200/208 V rated value                                        | 30 hp                                                                                                                                |
| — at 220/230 V rated value                                        | 40 hp                                                                                                                                |
| — at 460/480 V rated value                                        | 75 hp                                                                                                                                |
| — at 575/600 V rated value                                        | 100 hp                                                                                                                               |
| <b>contact rating of auxiliary contacts according to UL</b>       | A600 / P600                                                                                                                          |
| Short-circuit protection                                          |                                                                                                                                      |
| <b>design of the fuse link</b>                                    |                                                                                                                                      |
| • for short-circuit protection of the main circuit                |                                                                                                                                      |
| — with type of coordination 1 required                            | gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)                                                     |
| — with type of assignment 2 required                              | gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)                                                                 |
| • for short-circuit protection of the auxiliary switch required   | gG: 10 A (500 V, 1 kA)                                                                                                               |
| Installation/ mounting/ dimensions                                |                                                                                                                                      |
| <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</b>                                           | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                             |
| <b>height</b>                                                     | 140 mm                                                                                                                               |
| <b>width</b>                                                      | 70 mm                                                                                                                                |
| <b>depth</b>                                                      | 195 mm                                                                                                                               |
| <b>required spacing</b>                                           |                                                                                                                                      |
| • with side-by-side mounting                                      |                                                                                                                                      |
| — forwards                                                        | 20 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 0 mm                                                                                                                                 |
| • for grounded parts                                              |                                                                                                                                      |
| — forwards                                                        | 20 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — at the side                                                     | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| • for live parts                                                  |                                                                                                                                      |
| — forwards                                                        | 20 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 10 mm                                                                                                                                |
| Connections/ Terminals                                            |                                                                                                                                      |
| <b>type of electrical connection</b>                              |                                                                                                                                      |
| • for main current circuit                                        | screw-type terminals                                                                                                                 |
| • for auxiliary and control circuit                               | screw-type terminals                                                                                                                 |
| • at contactor for auxiliary contacts                             | Screw-type terminals                                                                                                                 |
| • of magnet coil                                                  | Screw-type terminals                                                                                                                 |
| <b>type of connectable conductor cross-sections</b>               |                                                                                                                                      |
| • for main contacts                                               |                                                                                                                                      |
| — finely stranded with core end processing                        | 2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²)                                                                                             |
| • for AWG cables for main contacts                                | 2x (10 ... 1/0), 1x (10 ... 2)                                                                                                       |
| <b>connectable conductor cross-section for main contacts</b>      |                                                                                                                                      |
| • solid                                                           | 2.5 ... 16 mm²                                                                                                                       |
| • stranded                                                        | 6 ... 70 mm²                                                                                                                         |
| • finely stranded with core end processing                        | 2.5 ... 50 mm²                                                                                                                       |
| <b>connectable conductor cross-section for auxiliary contacts</b> |                                                                                                                                      |
| • solid or stranded                                               | 0.5 ... 2.5 mm²                                                                                                                      |
| • finely stranded with core end processing                        | 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 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul>                                                      | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| <ul style="list-style-type: none"> <li>• for AWG cables for auxiliary contacts</li> </ul>                                                         | 2x (20 ... 16), 2x (18 ... 14)                                        |
| <b>AWG number as coded connectable conductor cross section</b>                                                                                    |                                                                       |
| <ul style="list-style-type: none"> <li>• for main contacts</li> </ul>                                                                             | 10 ... 2                                                              |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                                                        | 20 ... 14                                                             |

#### Safety related data

|                                                                                                            |           |
|------------------------------------------------------------------------------------------------------------|-----------|
| <b>product function</b>                                                                                    |           |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> </ul>              | Yes       |
| <ul style="list-style-type: none"> <li>• positively driven operation according to IEC 60947-5-1</li> </ul> | No        |
| <ul style="list-style-type: none"> <li>• suitable for safety function</li> </ul>                           | Yes       |
| suitability for use safety-related switching OFF                                                           | Yes       |
| <b>service life maximum</b>                                                                                | 20 a      |
| <b>test wear-related service life necessary</b>                                                            | Yes       |
| <b>proportion of dangerous failures</b>                                                                    |           |
| <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> </ul>             | 40 %      |
| <ul style="list-style-type: none"> <li>• with high demand rate according to SN 31920</li> </ul>            | 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

##### General Product Approval



[Confirmation](#)



EG-Konf.



UL

[KC](#)

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



[Type Examination Certificate](#)

[Special Test Certificate](#)



ABS



DNV

| Marine / Shipping | other | Railway | Dangerous goods |
|-------------------|-------|---------|-----------------|
|-------------------|-------|---------|-----------------|



PRS



RINA



RMRS

[Confirmation](#)

[Special Test Certificate](#)

[Transport Information](#)

#### Environment



[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=3RT2047-1AB04>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AB04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AB04>

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

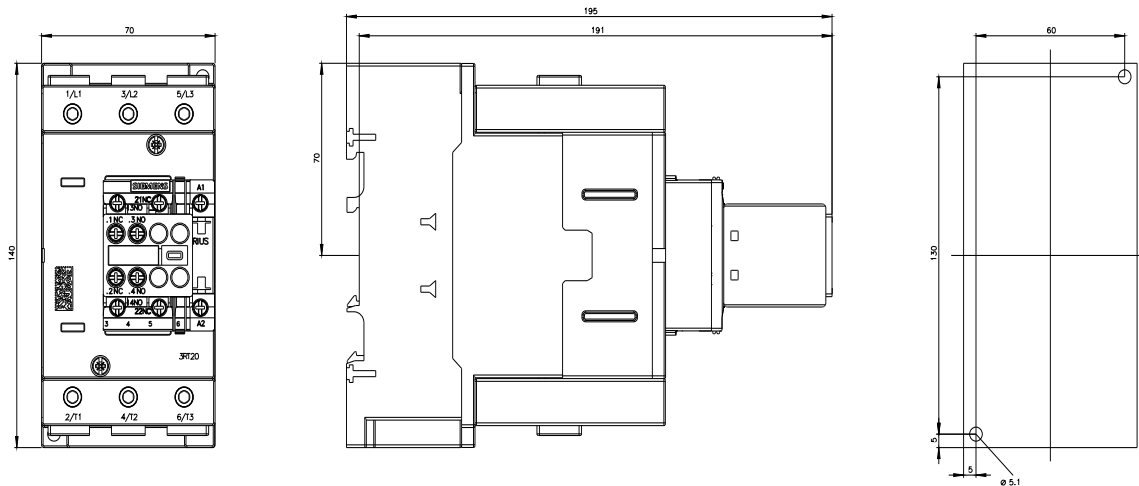
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2047-1AB04&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AB04&lang=en)

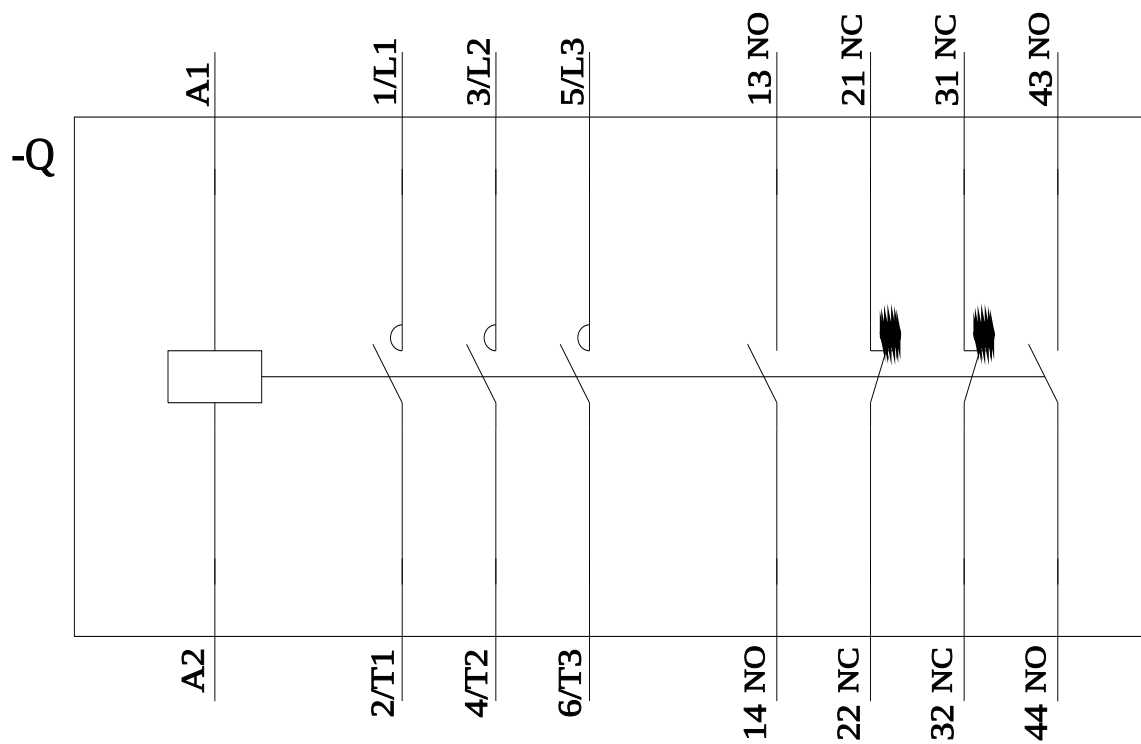
### Characteristic: Tripping characteristics, $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AB04/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AB04&objecttype=14&gridview=view1>





last modified:

