



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2\* U<sub>c</sub>, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, frame size: S2, suitable for PLC outputs

|                                                                                                              |                                                                                   |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| product brand name                                                                                           | SIRIUS                                                                            |
| product designation                                                                                          | Coupling 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                                                                               | 12 W                                                                              |
| • at AC in hot operating state per pole                                                                      | 4 W                                                                               |
| • without load current share typical                                                                         | 1 W                                                                               |
| type of calculation of power loss depending on pole                                                          | quadratic                                                                         |
| insulation voltage                                                                                           |                                                                                   |
| • of main circuit with degree of pollution 3 rated value                                                     | 690 V                                                                             |
| • of auxiliary circuit with degree of pollution 3 rated value                                                | 690 V                                                                             |
| surge voltage resistance                                                                                     |                                                                                   |
| • of main circuit rated value                                                                                | 6 kV                                                                              |
| • of auxiliary circuit rated value                                                                           | 6 kV                                                                              |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                                                                             |
| shock resistance at rectangular impulse                                                                      |                                                                                   |
| • at DC                                                                                                      | 7.7g / 5 ms, 4.5g / 10 ms                                                         |
| shock resistance with sine pulse                                                                             |                                                                                   |
| • at DC                                                                                                      | 12g / 5 ms, 7g / 10 ms                                                            |
| mechanical service life (operating cycles)                                                                   |                                                                                   |
| • of contactor typical                                                                                       | 10 000 000                                                                        |
| • of the contactor with added electronically optimized auxiliary switch block typical                        | 5 000 000                                                                         |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000                                                                        |
| reference code according to IEC 81346-2                                                                      | Q                                                                                 |
| Substance Prohibittance (Date)                                                                               | 10/01/2014                                                                        |
| SVHC substance name                                                                                          | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>Melamine - 108-78-1 |
| Weight                                                                                                       | 1.121 kg                                                                          |
| <b>Ambient conditions</b>                                                                                    |                                                                                   |
| installation altitude at height above sea level maximum                                                      | 2 000 m                                                                           |
| ambient temperature                                                                                          |                                                                                   |
| • during operation                                                                                           | -25 ... +60 °C                                                                    |
| • during storage                                                                                             | -55 ... +80 °C                                                                    |

|                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| relative humidity minimum                                         | 10 %               |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum    | 95 %               |
| <b>Environmental footprint</b>                                    |                    |
| Environmental Product Declaration(EPD)                            | Yes                |
| global warming potential [CO2 eq] total                           | 107 kg             |
| global warming potential [CO2 eq] during manufacturing            | 5.88 kg            |
| global warming potential [CO2 eq] during operation                | 102 kg             |
| global warming potential [CO2 eq] after end of life               | -0.988 kg          |
| <b>Main circuit</b>                                               |                    |
| number of poles for main current circuit                          | 3                  |
| number of NO contacts for main contacts                           | 3                  |
| operating voltage                                                 |                    |
| • at AC-3 rated value maximum                                     | 690 V              |
| • at AC-3e rated value maximum                                    | 690 V              |
| operational current                                               |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value       | 70 A               |
| • at AC-1                                                         |                    |
| — up to 690 V at ambient temperature 40 °C rated value            | 70 A               |
| — up to 690 V at ambient temperature 60 °C rated value            | 60 A               |
| • at AC-3                                                         |                    |
| — at 400 V rated value                                            | 51 A               |
| — at 500 V rated value                                            | 51 A               |
| — at 690 V rated value                                            | 24 A               |
| • at AC-3e                                                        |                    |
| — at 400 V rated value                                            | 51 A               |
| — at 500 V rated value                                            | 51 A               |
| — at 690 V rated value                                            | 24 A               |
| • at AC-4 at 400 V rated value                                    | 41 A               |
| • at AC-5a up to 690 V rated value                                | 61.6 A             |
| • at AC-5b up to 400 V rated value                                | 41.5 A             |
| • at AC-6a                                                        |                    |
| — up to 230 V for current peak value n=20 rated value             | 43.2 A             |
| — up to 400 V for current peak value n=20 rated value             | 43.2 A             |
| — up to 500 V for current peak value n=20 rated value             | 43.2 A             |
| — up to 690 V for current peak value n=20 rated value             | 24 A               |
| • at AC-6a                                                        |                    |
| — up to 230 V for current peak value n=30 rated value             | 28.8 A             |
| — up to 400 V for current peak value n=30 rated value             | 28.8 A             |
| — up to 500 V for current peak value n=30 rated value             | 28.8 A             |
| — up to 690 V for current peak value n=30 rated value             | 24 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                                            | 24 A               |
| • at 690 V rated value                                            | 20 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               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                           | 5 A<br>1 A<br>0.8 A                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>● <b>with 3 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul>                                                                                                                                                          | 55 A<br>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> | 22 kW<br><br>15 kW<br>22 kW<br>30 kW<br>22 kW<br><br>15 kW<br>22 kW<br>30 kW<br>22 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>                                                                                                                                                                                                                                                                                                                        | 12.6 kW<br>18.2 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>                                                                                                                                                      | 17.2 kVA<br>29.9 kVA<br>37.4 kVA<br>28.6 kVA                                                                                                                                        |
| <b>operating apparent power at AC-6a</b> <ul style="list-style-type: none"> <li>● up to 230 V for current peak value n=30 rated value</li> <li>● up to 400 V for current peak value n=30 rated value</li> <li>● up to 500 V for current peak value n=30 rated value</li> <li>● up to 690 V for current peak value n=30 rated value</li> </ul>                                                                                                                                                      | 11.4 kVA<br>19.9 kVA<br>24.9 kVA<br>28.6 kVA                                                                                                                                        |
| <b>short-time withstand current in cold operating state up to 40 °C</b> <ul style="list-style-type: none"> <li>● limited to 1 s switching at zero current maximum</li> <li>● limited to 5 s switching at zero current maximum</li> <li>● limited to 10 s switching at zero current maximum</li> </ul>                                                                                                                                                                                              | 937 A; Use minimum cross-section acc. to AC-1 rated value<br>697 A; Use minimum cross-section acc. to AC-1 rated value<br>468 A; Use minimum cross-section acc. to AC-1 rated value |

|                                                                                                                                                                    |                                                                                                                        |
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| <ul style="list-style-type: none"> <li>• limited to 30 s switching at zero current maximum</li> <li>• limited to 60 s switching at zero current maximum</li> </ul> | 282 A; Use minimum cross-section acc. to AC-1 rated value<br>229 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                                                                                                 |                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                          | 1 500 1/h                                                                                                              |
| <b>operating frequency</b>                                                                                                                                         |                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> </ul>                                                                                                | 1 000 1/h                                                                                                              |
| <ul style="list-style-type: none"> <li>• at AC-2 maximum</li> </ul>                                                                                                | 600 1/h                                                                                                                |
| <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>                                                                                                | 800 1/h                                                                                                                |
| <ul style="list-style-type: none"> <li>• at AC-3e</li> <li>— maximum</li> </ul>                                                                                    | 800 1/h                                                                                                                |
| <ul style="list-style-type: none"> <li>• at AC-4 maximum</li> </ul>                                                                                                | 250 1/h                                                                                                                |
| <b>Control circuit/ Control</b>                                                                                                                                    |                                                                                                                        |
| <b>type of voltage of the control supply voltage</b>                                                                                                               | DC                                                                                                                     |
| <b>control supply voltage at DC rated value</b>                                                                                                                    | 24 V                                                                                                                   |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b>                                                                              |                                                                                                                        |
| <ul style="list-style-type: none"> <li>• initial value</li> </ul>                                                                                                  | 0.8                                                                                                                    |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                                                                               | 1.2                                                                                                                    |
| <b>design of the surge suppressor</b>                                                                                                                              | with varistor                                                                                                          |
| <b>inrush current peak</b>                                                                                                                                         | 2.6 A                                                                                                                  |
| <b>duration of inrush current peak</b>                                                                                                                             | 50 µs                                                                                                                  |
| <b>locked-rotor current mean value</b>                                                                                                                             | 0.9 A                                                                                                                  |
| <b>locked-rotor current peak</b>                                                                                                                                   | 2.1 A                                                                                                                  |
| <b>duration of locked-rotor current</b>                                                                                                                            | 230 ms                                                                                                                 |
| <b>holding current mean value</b>                                                                                                                                  | 40 mA                                                                                                                  |
| <b>closing power of magnet coil at DC</b>                                                                                                                          | 21.5 W                                                                                                                 |
| <b>holding power of magnet coil at DC</b>                                                                                                                          | 1 W                                                                                                                    |
| <b>closing delay</b>                                                                                                                                               |                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                          | 35 ... 80 ms                                                                                                           |
| <b>opening delay</b>                                                                                                                                               |                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                          | 30 ... 55 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                                                                                                                  |
| <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                                                                                    | 52 A                                                                                                                                 |
| • at 600 V rated value                                                                                    | 52 A                                                                                                                                 |
| <b>yielded mechanical performance [hp]</b>                                                                |                                                                                                                                      |
| • for single-phase AC motor                                                                               |                                                                                                                                      |
| — at 110/120 V rated value                                                                                | 3 hp                                                                                                                                 |
| — at 230 V rated value                                                                                    | 10 hp                                                                                                                                |
| • for 3-phase AC motor                                                                                    |                                                                                                                                      |
| — at 200/208 V rated value                                                                                | 15 hp                                                                                                                                |
| — at 220/230 V rated value                                                                                | 15 hp                                                                                                                                |
| — at 460/480 V rated value                                                                                | 40 hp                                                                                                                                |
| — at 575/600 V rated value                                                                                | 50 hp                                                                                                                                |
| <b>contact rating of auxiliary contacts according to UL</b>                                               | A600 / P600                                                                                                                          |
| Short-circuit protection                                                                                  |                                                                                                                                      |
| 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>                                                                            |                                                                                                                                      |
| • for short-circuit protection of the main circuit                                                        |                                                                                                                                      |
| — with type of coordination 1 required                                                                    | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)                                                      |
| — with type of coordination 2 required                                                                    | gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kA)                                                        |
| • 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 |
| fastening method side-by-side mounting                                                                    | Yes                                                                                                                                  |
| <b>fastening method</b>                                                                                   | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                             |
| <b>height</b>                                                                                             | 114 mm                                                                                                                               |
| <b>width</b>                                                                                              | 55 mm                                                                                                                                |
| <b>depth</b>                                                                                              | 130 mm                                                                                                                               |
| <b>required spacing</b>                                                                                   |                                                                                                                                      |
| • with side-by-side mounting                                                                              |                                                                                                                                      |
| — forwards                                                                                                | 10 mm                                                                                                                                |
| — upwards                                                                                                 | 10 mm                                                                                                                                |
| — downwards                                                                                               | 10 mm                                                                                                                                |
| — at the side                                                                                             | 0 mm                                                                                                                                 |
| • for grounded parts                                                                                      |                                                                                                                                      |
| — forwards                                                                                                | 10 mm                                                                                                                                |
| — upwards                                                                                                 | 10 mm                                                                                                                                |
| — at the side                                                                                             | 6 mm                                                                                                                                 |
| — downwards                                                                                               | 10 mm                                                                                                                                |
| • for live parts                                                                                          |                                                                                                                                      |
| — forwards                                                                                                | 10 mm                                                                                                                                |
| — upwards                                                                                                 | 10 mm                                                                                                                                |
| — downwards                                                                                               | 10 mm                                                                                                                                |
| — at the side                                                                                             | 6 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                                                                                       |                                                                                                                                      |
| — solid or stranded                                                                                       | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²)                                                                                                 |
| — finely stranded with core end processing                                                                | 2x (1 ... 25 mm²), 1x (1 ... 35 mm²)                                                                                                 |
| • 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 mm²                                                                                                                         |
| <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

##### General Product Approval



KC



| EMV | Test Certificates | Maritime application |
|-----|-------------------|----------------------|
|-----|-------------------|----------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| Maritime application | other | Railway | Environment |
|----------------------|-------|---------|-------------|
|----------------------|-------|---------|-------------|



[Confirmation](#)

[Special Test Certificate](#)



#### Environment

[Environmental Conformations](#)

## 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=3RT2036-1KB40>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1KB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1KB40>

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

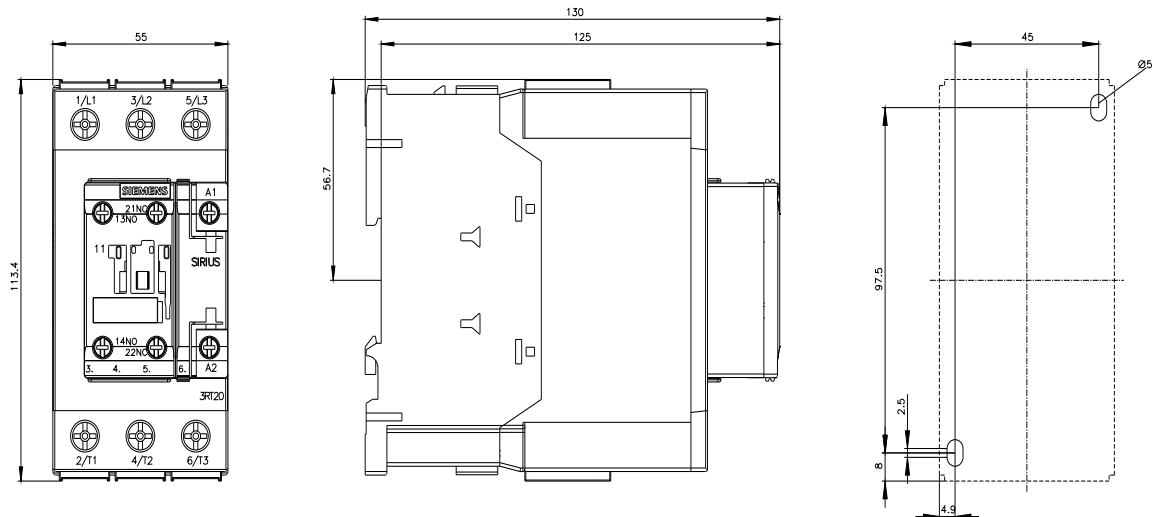
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2036-1KB40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1KB40&lang=en)

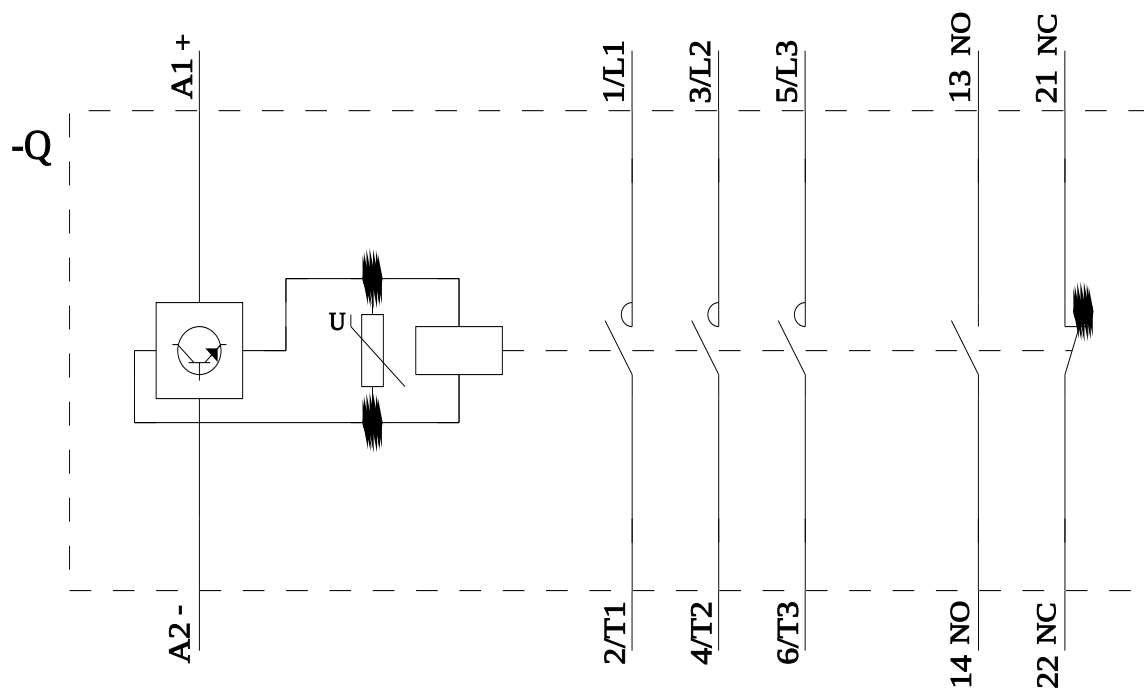
### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1KB40/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1KB40&objecttype=14&gridview=view1>





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9/5/2025 