

Siemens  
EcoTech



power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC U<sub>c</sub>: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: box terminal control and auxiliary circuit: screw terminal



|                                                                                                              |                            |
|--------------------------------------------------------------------------------------------------------------|----------------------------|
| product brand name                                                                                           | SIRIUS                     |
| product designation                                                                                          | Power contactor            |
| product type designation                                                                                     | 3RT1                       |
| <b>General technical data</b>                                                                                |                            |
| size of contactor                                                                                            | S6                         |
| 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                                                                               | 21 W                       |
| • at AC in hot operating state per pole                                                                      | 7 W                        |
| • without load current share typical                                                                         | 5.2 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                                                | 500 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                                                                                                      | 8,5g / 5 ms, 4,2g / 10 ms  |
| • at DC                                                                                                      | 8,5g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse                                                                             |                            |
| • at AC                                                                                                      | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC                                                                                                      | 13,4g / 5 ms, 6,5g / 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)                                                                                |                            |
| SVHC substance name                                                                                          | Lead - 7439-92-1           |
| Weight                                                                                                       | 3.66 kg                    |
| <b>Ambient conditions</b>                                                                                    |                            |
| installation altitude at height above sea level maximum                                                      | 2 000 m                    |

|                                                                        |                    |
|------------------------------------------------------------------------|--------------------|
| <b>ambient temperature</b>                                             |                    |
| • during operation                                                     | -25 ... +60 °C     |
| • during storage                                                       | -55 ... +80 °C     |
| <b>relative humidity minimum</b>                                       | 10 %               |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>  | 95 %               |
| <b>Main circuit</b>                                                    |                    |
| <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            | 160 A              |
| • at AC-1                                                              |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 160 A              |
| — up to 690 V at ambient temperature 60 °C rated value                 | 140 A              |
| — up to 1000 V at ambient temperature 40 °C rated value                | 80 A               |
| — up to 1000 V at ambient temperature 60 °C rated value                | 80 A               |
| • at AC-3                                                              |                    |
| — at 400 V rated value                                                 | 115 A              |
| — at 500 V rated value                                                 | 115 A              |
| — at 690 V rated value                                                 | 115 A              |
| — at 1000 V rated value                                                | 53 A               |
| • at AC-3e                                                             |                    |
| — at 400 V rated value                                                 | 115 A              |
| — at 500 V rated value                                                 | 115 A              |
| — at 690 V rated value                                                 | 115 A              |
| — at 1000 V rated value                                                | 53 A               |
| • at AC-4 at 400 V rated value                                         | 97 A               |
| • at AC-5a up to 690 V rated value                                     | 140 A              |
| • at AC-5b up to 400 V rated value                                     | 95 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 115 A              |
| — up to 400 V for current peak value n=20 rated value                  | 115 A              |
| — up to 500 V for current peak value n=20 rated value                  | 115 A              |
| — up to 690 V for current peak value n=20 rated value                  | 115 A              |
| — up to 1000 V for current peak value n=20 rated value                 | 53 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 98 A               |
| — up to 400 V for current peak value n=30 rated value                  | 98 A               |
| — up to 500 V for current peak value n=30 rated value                  | 98 A               |
| — up to 690 V for current peak value n=30 rated value                  | 98 A               |
| — up to 1000 V for current peak value n=30 rated value                 | 53 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 70 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 54 A               |
| • at 690 V rated value                                                 | 48 A               |
| <b>operational current</b>                                             |                    |
| • at 1 current path at DC-1                                            |                    |
| — at 24 V rated value                                                  | 160 A              |
| — at 60 V rated value                                                  | 160 A              |
| — at 110 V rated value                                                 | 18 A               |
| — at 220 V rated value                                                 | 3.4 A              |
| — at 440 V rated value                                                 | 0.8 A              |

|                                                                    |            |
|--------------------------------------------------------------------|------------|
| — at 600 V rated value                                             | 0.5 A      |
| ● <b>with 2 current paths in series at DC-1</b>                    |            |
| — at 24 V rated value                                              | 160 A      |
| — at 60 V rated value                                              | 160 A      |
| — at 110 V rated value                                             | 160 A      |
| — at 220 V rated value                                             | 20 A       |
| — at 440 V rated value                                             | 3.2 A      |
| — at 600 V rated value                                             | 1.6 A      |
| ● <b>with 3 current paths in series at DC-1</b>                    |            |
| — at 24 V rated value                                              | 160 A      |
| — at 60 V rated value                                              | 160 A      |
| — at 110 V rated value                                             | 160 A      |
| — at 220 V rated value                                             | 160 A      |
| — at 440 V rated value                                             | 11.5 A     |
| — at 600 V rated value                                             | 4 A        |
| ● <b>at 1 current path at DC-3 at DC-5</b>                         |            |
| — at 24 V rated value                                              | 160 A      |
| — at 60 V rated value                                              | 7.5 A      |
| — at 220 V rated value                                             | 0.6 A      |
| — at 440 V rated value                                             | 0.17 A     |
| — at 600 V rated value                                             | 0.12 A     |
| ● <b>with 2 current paths in series at DC-3 at DC-5</b>            |            |
| — at 24 V rated value                                              | 160 A      |
| — at 60 V rated value                                              | 160 A      |
| — at 110 V rated value                                             | 160 A      |
| — at 220 V rated value                                             | 2.5 A      |
| — at 440 V rated value                                             | 0.65 A     |
| — at 600 V rated value                                             | 0.37 A     |
| ● <b>with 3 current paths in series at DC-3 at DC-5</b>            |            |
| — at 24 V rated value                                              | 160 A      |
| — at 60 V rated value                                              | 160 A      |
| — at 110 V rated value                                             | 160 A      |
| — at 220 V rated value                                             | 160 A      |
| — at 440 V rated value                                             | 1.4 A      |
| — at 600 V rated value                                             | 0.75 A     |
| <b>operating power</b>                                             |            |
| ● <b>at AC-3</b>                                                   |            |
| — at 230 V rated value                                             | 37 kW      |
| — at 400 V rated value                                             | 55 kW      |
| — at 500 V rated value                                             | 75 kW      |
| — at 690 V rated value                                             | 110 kW     |
| — at 1000 V rated value                                            | 75 kW      |
| ● <b>at AC-3e</b>                                                  |            |
| — at 230 V rated value                                             | 37 kW      |
| — at 400 V rated value                                             | 55 kW      |
| — at 500 V rated value                                             | 75 kW      |
| — at 690 V rated value                                             | 110 kW     |
| — at 1000 V rated value                                            | 75 kW      |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> |            |
| ● <b>at 400 V rated value</b>                                      | 29 kW      |
| ● <b>at 690 V rated value</b>                                      | 48 kW      |
| <b>operating apparent power at AC-6a</b>                           |            |
| ● up to 230 V for current peak value n=20 rated value              | 40 000 kVA |
| ● up to 400 V for current peak value n=20 rated value              | 80 000 VA  |
| ● up to 500 V for current peak value n=20 rated value              | 100 000 VA |
| ● up to 690 V for current peak value n=20 rated value              | 130 000 VA |
| ● up to 1000 V for current peak value n=20 rated value             | 90 000 VA  |
| <b>operating apparent power at AC-6a</b>                           |            |
| ● up to 230 V for current peak value n=30 rated value              | 30 000 VA  |
| ● up to 400 V for current peak value n=30 rated value              | 60 000 VA  |

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| <ul style="list-style-type: none"> <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> <li>• up to 1000 V for current peak value n=30 rated value</li> </ul>                                                                                                                                                                                          | 80 000 VA<br>110 000 VA<br>90 000 VA                                                                                                                                                                                                                                                                                |
| <b>short-time withstand current in cold operating state up to 40 °C</b> <ul style="list-style-type: none"> <li>• limited to 1 s switching at zero current maximum</li> <li>• limited to 5 s switching at zero current maximum</li> <li>• limited to 10 s switching at zero current maximum</li> <li>• limited to 30 s switching at zero current maximum</li> <li>• limited to 60 s switching at zero current maximum</li> </ul> | 2 565 A; Use minimum cross-section acc. to AC-1 rated value<br>1 654 A; Use minimum cross-section acc. to AC-1 rated value<br>1 170 A; Use minimum cross-section acc. to AC-1 rated value<br>729 A; Use minimum cross-section acc. to AC-1 rated value<br>572 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> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2 000 1/h<br>2 000 1/h                                                                                                                                                                                                                                                                                              |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-3e maximum</li> <li>• at AC-4 maximum</li> </ul>                                                                                                                                                                                                                     | 800 1/h<br>400 1/h<br>1 000 1/h<br>1 000 1/h<br>130 1/h                                                                                                                                                                                                                                                             |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                     |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                            | AC/DC                                                                                                                                                                                                                                                                                                               |
| <b>control supply voltage at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                    | 23 ... 26 V<br>23 ... 26 V                                                                                                                                                                                                                                                                                          |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                                                                                                                                                                                 | 23 ... 26 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> <li>• full-scale value</li> </ul>                                                                                                                                                                                                                                             | 0.8<br>1.1                                                                                                                                                                                                                                                                                                          |
| <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> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                          | 0.8 ... 1.1<br>0.8 ... 1.1                                                                                                                                                                                                                                                                                          |
| <b>design of the surge suppressor</b>                                                                                                                                                                                                                                                                                                                                                                                           | with varistor                                                                                                                                                                                                                                                                                                       |
| <b>apparent pick-up power</b> <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• at maximum rated control supply voltage at AC <ul style="list-style-type: none"> <li>— at 60 Hz</li> <li>— at 50 Hz</li> </ul> </li> </ul>                                                                    | 250 VA<br>250 VA<br>300 VA<br>300 VA                                                                                                                                                                                                                                                                                |
| <b>apparent pick-up power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                             | 300 VA<br>300 VA                                                                                                                                                                                                                                                                                                    |
| <b>inductive power factor with closing power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                   | 0.9<br>0.9                                                                                                                                                                                                                                                                                                          |
| <b>apparent holding power</b> <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at DC</li> <li>• at maximum rated control supply voltage at DC</li> </ul>                                                                                                                                                                                                                                        | 4.3 VA<br>5.2 VA                                                                                                                                                                                                                                                                                                    |
| <b>apparent holding power</b> <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• at maximum rated control supply voltage at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> </ul>                                                                    | 4.8 VA<br>4.8 VA<br>5.8 VA<br>5.8 VA                                                                                                                                                                                                                                                                                |
| <b>inductive power factor with the holding power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                               | 0.8<br>0.8                                                                                                                                                                                                                                                                                                          |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                       | 360 W                                                                                                                                                                                                                                                                                                               |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                       | 5.2 W                                                                                                                                                                                                                                                                                                               |

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| <b>closing delay</b>                                               |                                                                                                                          |
| • at AC                                                            | 20 ... 95 ms                                                                                                             |
| • at DC                                                            | 20 ... 95 ms                                                                                                             |
| <b>opening delay</b>                                               |                                                                                                                          |
| • at AC                                                            | 40 ... 60 ms                                                                                                             |
| • at DC                                                            | 40 ... 60 ms                                                                                                             |
| <b>arcing time</b>                                                 | 10 ... 15 ms                                                                                                             |
| <b>control version of the switch operating mechanism</b>           | Standard A1 - A2                                                                                                         |
| <b>Auxiliary circuit</b>                                           |                                                                                                                          |
| number of NC contacts for auxiliary contacts instantaneous contact | 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>                                |                                                                                                                          |
| • at 230 V rated value                                             | 6 A                                                                                                                      |
| • at 400 V rated value                                             | 3 A                                                                                                                      |
| • at 500 V rated value                                             | 2 A                                                                                                                      |
| • at 690 V rated value                                             | 1 A                                                                                                                      |
| <b>operational current at DC-12</b>                                |                                                                                                                          |
| • at 24 V rated value                                              | 10 A                                                                                                                     |
| • at 48 V rated value                                              | 6 A                                                                                                                      |
| • at 60 V rated value                                              | 6 A                                                                                                                      |
| • at 110 V rated value                                             | 3 A                                                                                                                      |
| • at 125 V rated value                                             | 2 A                                                                                                                      |
| • at 220 V rated value                                             | 1 A                                                                                                                      |
| • at 600 V rated value                                             | 0.15 A                                                                                                                   |
| <b>operational current at DC-13</b>                                |                                                                                                                          |
| • at 24 V rated value                                              | 10 A                                                                                                                     |
| • at 48 V rated value                                              | 2 A                                                                                                                      |
| • at 60 V rated value                                              | 2 A                                                                                                                      |
| • at 110 V rated value                                             | 1 A                                                                                                                      |
| • at 125 V rated value                                             | 0.9 A                                                                                                                    |
| • at 220 V rated value                                             | 0.3 A                                                                                                                    |
| • at 600 V rated value                                             | 0.1 A                                                                                                                    |
| <b>contact reliability of auxiliary contacts</b>                   | 1 faulty switching per 100 million (17 V, 1 mA)                                                                          |
| <b>UL/CSA ratings</b>                                              |                                                                                                                          |
| <b>full-load current (FLA) for 3-phase AC motor</b>                |                                                                                                                          |
| • at 480 V rated value                                             | 124 A                                                                                                                    |
| • at 600 V rated value                                             | 125 A                                                                                                                    |
| <b>yielded mechanical performance [hp]</b>                         |                                                                                                                          |
| • for single-phase AC motor                                        |                                                                                                                          |
| — at 230 V rated value                                             | 25 hp                                                                                                                    |
| • for 3-phase AC motor                                             |                                                                                                                          |
| — at 200/208 V rated value                                         | 40 hp                                                                                                                    |
| — at 220/230 V rated value                                         | 50 hp                                                                                                                    |
| — at 460/480 V rated value                                         | 100 hp                                                                                                                   |
| — at 575/600 V rated value                                         | 125 hp                                                                                                                   |
| <b>contact rating of auxiliary contacts according to UL</b>        | A600 / Q600                                                                                                              |
| <b>Short-circuit protection</b>                                    |                                                                                                                          |
| <b>design of the fuse link</b>                                     |                                                                                                                          |
| • for short-circuit protection of the main circuit                 |                                                                                                                          |
| — with type of coordination 1 required                             | gG: 355 A (690 V, 100 kA)                                                                                                |
| — with type of assignment 2 required                               | gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)                                          |
| • for short-circuit protection of the auxiliary switch required    | gG: 10 A (500 V, 1 kA)                                                                                                   |
| <b>Installation/ mounting/ dimensions</b>                          |                                                                                                                          |
| <b>mounting position</b>                                           | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| <b>fastening method</b>                                            | screw fixing                                                                                                             |
| <b>height</b>                                                      | 172 mm                                                                                                                   |
| <b>width</b>                                                       | 120 mm                                                                                                                   |

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| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 170 mm                                                                               |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— at the side 10 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 10 mm</li> </ul> </li> </ul> |                                                                                      |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   | box terminal<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— stranded max. 1x 50, 1x 70 mm<sup>2</sup></li> <li>— solid or stranded max. 1x 50, 1x 70 mm<sup>2</sup></li> <li>— finely stranded with core end processing max. 1x 50, 1x 70 mm<sup>2</sup></li> <li>— finely stranded without core end processing max. 1x 50, 1x 70 mm<sup>2</sup></li> </ul> </li> <li>• for AWG cables for main contacts 2x 1/0</li> </ul>                                                                                                                                   |                                                                                      |
| <b>connectable conductor cross-section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |
| <ul style="list-style-type: none"> <li>• stranded 16 ... 70 mm<sup>2</sup></li> <li>• finely stranded with core end processing 16 ... 70 mm<sup>2</sup></li> <li>• finely stranded without core end processing 16 ... 70 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |
| <b>connectable conductor cross-section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
| <ul style="list-style-type: none"> <li>• solid or stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |
| <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 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)</li> <li>— solid or stranded 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>• for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 1x 12</li> </ul>        |                                                                                      |
| <b>AWG number as coded connectable conductor cross section</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts 18 ... 14</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |
| <b>product function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1 Yes</li> <li>• positively driven operation according to IEC 60947-5-1 No</li> <li>• suitable for safety function Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |
| 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 40 %</li> <li>• with high demand rate according to SN 31920 73 %</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |

|                                                         |                                                  |
|---------------------------------------------------------|--------------------------------------------------|
| device type according to ISO 13849-1                    | 3                                                |
| overdimensioning according to ISO 13849-2 necessary     | Yes                                              |
| IEC 61508                                               |                                                  |
| safety device type according to IEC 61508-2             | Type A                                           |
| Electrical Safety                                       |                                                  |
| protection class IP on the front according to IEC 60529 | IP20                                             |
| touch protection on the front according to IEC 60529    | finger-safe, for vertical contact from the front |
| Approvals Certificates                                  |                                                  |
| General Product Approval                                |                                                  |



[Confirmation](#)



[KC](#)

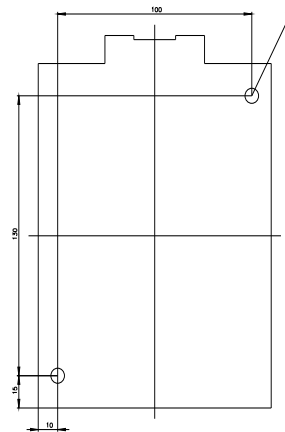
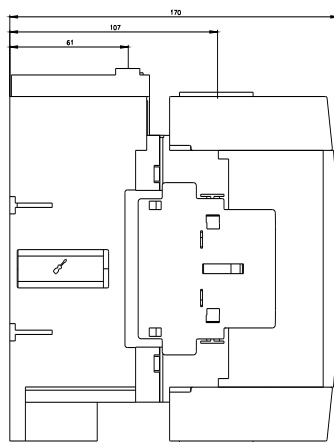
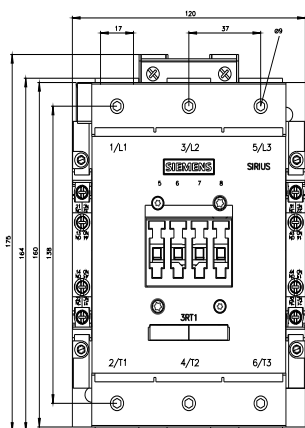
|                          |     |                                              |                                                    |                                          |
|--------------------------|-----|----------------------------------------------|----------------------------------------------------|------------------------------------------|
| General Product Approval | EMV | Functional Safety                            | Test Certificates                                  | Marine / Shipping                        |
|                          |     | <a href="#">Type Examination Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Special Test Certificate</a> |
|                          |     |                                              |                                                    |                                          |

|                   |       |  |  |                              |                               |
|-------------------|-------|--|--|------------------------------|-------------------------------|
| Marine / Shipping | other |  |  |                              |                               |
|                   |       |  |  | <a href="#">Confirmation</a> | <a href="#">Miscellaneous</a> |

|                              |                                          |                                             |
|------------------------------|------------------------------------------|---------------------------------------------|
| other                        | Railway                                  | Environment                                 |
| <a href="#">Confirmation</a> | <a href="#">Special Test Certificate</a> |                                             |
|                              |                                          |                                             |
|                              |                                          | <a href="#">Environmental Confirmations</a> |

#### 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=3RT1054-1AB36>  
Cax online generator  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-1AB36>  
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AB36>  
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1054-1AB36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-1AB36&lang=en)  
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AB36/char>  
Further characteristics (e.g. electrical endurance, switching frequency)  
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-1AB36&objecttype=14&gridview=view1>



last modified:



