



Power contactor, AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC operation  
110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar  
connections Drive: conventional screw terminal

|                                                                                                  |                            |
|--------------------------------------------------------------------------------------------------|----------------------------|
| <b>product brand name</b>                                                                        | SIRIUS                     |
| <b>product designation</b>                                                                       | Power contactor            |
| <b>product type designation</b>                                                                  | 3RT1                       |
| <b>General technical data</b>                                                                    |                            |
| <b>size of contactor</b>                                                                         | S6                         |
| <b>product extension</b>                                                                         |                            |
| • function module for communication                                                              | No                         |
| • auxiliary switch                                                                               | Yes                        |
| power loss [W] for rated value of the current at AC in hot operating state                       | 27 W                       |
| • per pole                                                                                       | 9 W                        |
| <b>power loss [W] for rated value of the current without load current share typical</b>          | 5.2 W                      |
| <b>surge voltage resistance</b>                                                                  |                            |
| • of main circuit rated value                                                                    | 8 kV                       |
| • of auxiliary circuit rated value                                                               | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 | 690 V                      |
| <b>shock resistance at rectangular impulse</b>                                                   |                            |
| • at AC                                                                                          | 8,5g / 5 ms, 4,2g / 10 ms  |
| • at DC                                                                                          | 8,5g / 5 ms, 4,2g / 10 ms  |
| <b>shock resistance with sine pulse</b>                                                          |                            |
| • at AC                                                                                          | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC                                                                                          | 13,4g / 5 ms, 6,5g / 10 ms |
| <b>mechanical service life (switching cycles)</b>                                                |                            |
| • 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                 |
| <b>reference code acc. to IEC 81346-2</b>                                                        | Q                          |
| <b>Ambient conditions</b>                                                                        |                            |
| installation altitude at height above sea level maximum                                          | 2 000 m                    |
| • ambient temperature during operation                                                           | -25 ... +60 °C             |
| • ambient temperature during storage                                                             | -55 ... +80 °C             |
| <b>Main circuit</b>                                                                              |                            |
| <b>number of poles for main current circuit</b>                                                  | 3                          |
| <b>number of NO contacts for main contacts</b>                                                   | 3                          |

|                                                                                                                                                                   |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <ul style="list-style-type: none"> <li>operating voltage at AC-3 rated value maximum</li> </ul>                                                                   | 1 000 V            |
| <b>operational current</b>                                                                                                                                        |                    |
| <ul style="list-style-type: none"> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>                                                       | 185 A              |
| <ul style="list-style-type: none"> <li>at AC-1 <ul style="list-style-type: none"> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul> | 185 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>        | 160 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul>       | 90 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>       | 90 A               |
| <ul style="list-style-type: none"> <li>at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul> </li> </ul>                                 | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 500 V rated value</li> </ul> </li> </ul>                                        | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 690 V rated value</li> </ul> </li> </ul>                                        | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 1000 V rated value</li> </ul> </li> </ul>                                       | 65 A               |
| <ul style="list-style-type: none"> <li>at AC-4 at 400 V rated value</li> </ul>                                                                                    | 132 A              |
| <ul style="list-style-type: none"> <li>at AC-5a up to 690 V rated value</li> </ul>                                                                                | 162 A              |
| <ul style="list-style-type: none"> <li>at AC-5b up to 400 V rated value</li> </ul>                                                                                | 124 A              |
| <ul style="list-style-type: none"> <li>at AC-6a <ul style="list-style-type: none"> <li>up to 230 V for current peak value n=20 rated value</li> </ul> </li> </ul> | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 400 V for current peak value n=20 rated value</li> </ul> </li> </ul>         | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 500 V for current peak value n=20 rated value</li> </ul> </li> </ul>         | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 690 V for current peak value n=20 rated value</li> </ul> </li> </ul>         | 150 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 1000 V for current peak value n=20 rated value</li> </ul> </li> </ul>        | 65 A               |
| <ul style="list-style-type: none"> <li>at AC-6a <ul style="list-style-type: none"> <li>up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul> | 105 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 400 V for current peak value n=30 rated value</li> </ul> </li> </ul>         | 105 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 500 V for current peak value n=30 rated value</li> </ul> </li> </ul>         | 105 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 690 V for current peak value n=30 rated value</li> </ul> </li> </ul>         | 105 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 1000 V for current peak value n=30 rated value</li> </ul> </li> </ul>        | 65 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                 | 95 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b>                                                                                            |                    |
| <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul>                                                                                            | 68 A               |
| <ul style="list-style-type: none"> <li>at 690 V rated value</li> </ul>                                                                                            | 57 A               |
| <b>operational current</b>                                                                                                                                        |                    |
| <ul style="list-style-type: none"> <li>at 1 current path at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>                | 160 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                        | 18 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 220 V rated value</li> </ul> </li> </ul>                                        | 3.4 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 440 V rated value</li> </ul> </li> </ul>                                        | 0.8 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 600 V rated value</li> </ul> </li> </ul>                                        | 0.5 A              |
| <ul style="list-style-type: none"> <li>with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>   | 160 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                        | 160 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 220 V rated value</li> </ul> </li> </ul>                                        | 20 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 440 V rated value</li> </ul> </li> </ul>                                        | 3.2 A              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 600 V rated value</li> </ul> </li> </ul>                                        | 1.6 A              |

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| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 160 A<br>160 A<br>160 A<br>11.5 A<br>4 A                                                                                                                                                                                                                                                                            |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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> | 160 A<br>2.5 A<br>0.6 A<br>0.17 A<br>0.12 A<br><br>160 A<br>160 A<br>2.5 A<br>0.65 A<br>0.37 A<br><br>160 A<br>160 A<br>160 A<br>1.4 A<br>0.75 A                                                                                                                                                                    |
| <b>operating power</b> <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45 kW<br>75 kW<br>90 kW<br>132 kW<br>90 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 38 kW<br>55 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> <li>• up to 1000 V for current peak value n=20 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60 000 kV·A<br>100 000 V·A<br>130 000 V·A<br>170 000 V·A<br>110 000 V·A                                                                                                                                                                                                                                             |
| <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> <li>• up to 1000 V for current peak value n=30 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40 000 V·A<br>70 000 V·A<br>90 000 V·A<br>120 000 V·A<br>110 000 V·A                                                                                                                                                                                                                                                |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 727 A; Use minimum cross-section acc. to AC-1 rated value<br>1 831 A; Use minimum cross-section acc. to AC-1 rated value<br>1 300 A; Use minimum cross-section acc. to AC-1 rated value<br>850 A; Use minimum cross-section acc. to AC-1 rated value<br>703 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b> <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 000 1/h                                                                                                                                                                                                                                                                                                           |

|                                                                                       |                  |
|---------------------------------------------------------------------------------------|------------------|
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                             | 2 000 1/h        |
| <b>operating frequency</b>                                                            |                  |
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> </ul>                   | 800 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-2 maximum</li> </ul>                   | 300 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>                   | 750 1/h          |
| <ul style="list-style-type: none"> <li>• at AC-4 maximum</li> </ul>                   | 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> </ul>              | 110 ... 127 V    |
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>              | 110 ... 127 V    |
| <b>control supply voltage at DC</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                       | 110 ... 127 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>                  | 1.1              |
| <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> </ul>                          | 0.8 ... 1.1      |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.8 ... 1.1      |
| <b>design of the surge suppressor</b>                                                 | with varistor    |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 300 V·A          |
| <b>inductive power factor with closing power of the coil</b>                          |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.9              |
| <b>apparent holding power of magnet coil at AC</b>                                    |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 5.8 V·A          |
| <b>inductive power factor with the holding power of the coil</b>                      |                  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.8              |
| <b>closing power of magnet coil at DC</b>                                             | 360 W            |
| <b>holding power of magnet coil at DC</b>                                             | 5.2 W            |
| <b>closing delay</b>                                                                  |                  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 20 ... 95 ms     |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                             | 20 ... 95 ms     |
| <b>opening delay</b>                                                                  |                  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 40 ... 60 ms     |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                             | 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>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>              | 6 A              |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>              | 3 A              |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>              | 2 A              |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>              | 1 A              |
| <b>operational current at DC-12</b>                                                   |                  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>               | 10 A             |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>               | 6 A              |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>               | 6 A              |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>              | 3 A              |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>              | 2 A              |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>              | 1 A              |

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| <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> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                         | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A                                                                                   |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                        |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                        |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | 156 A<br>144 A                                                                                                                         |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 230 V rated value</li> </ul> </li> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                                                                                                             | 30 hp<br><br>50 hp<br>60 hp<br>125 hp<br>150 hp                                                                                        |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A600 / Q600                                                                                                                            |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| <b>design of the fuse link</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                                                         | gG: 355 A (690 V, 100 kA)<br>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>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                                                                                                                           |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                    |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 172 mm                                                                                                                                 |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 120 mm                                                                                                                                 |
| <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</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 20 mm<br>10 mm<br>10 mm<br>0 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm                        |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| <b>width of connection bar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 17 mm                                                                                                                                  |
| <b>thickness of connection bar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 mm                                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>diameter of holes</b>                                                                                                                                                                                                                                                                                                                 | 9 mm                                                                                                                                                                                                                                                                                                                                           |
| <b>number of holes</b>                                                                                                                                                                                                                                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                              |
| <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>                                                                                                  | Connection bar<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>• at AWG cables for main contacts</li> </ul>                                                                                                                                                                                                  | 4 ... 250 kcmil                                                                                                                                                                                                                                                                                                                                |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• stranded</li> </ul>                                                                                                                                                                                                                | 25 ... 120 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                     |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                              | 0.5 ... 4 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                       |
| <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</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul> | 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> )<br>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> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| <ul style="list-style-type: none"> <li>• AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul>                                                                                                                                                                                                       | 18 ... 14                                                                                                                                                                                                                                                                                                                                      |

| Safety related data                                                                                                                                                           |                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| B10 value with high demand rate acc. to SN 31920                                                                                                                              | 1 000 000                                                                |
| <b>product function</b> <ul style="list-style-type: none"> <li>• mirror contact acc. to IEC 60947-4-1</li> <li>• positively driven operation acc. to IEC 60947-5-1</li> </ul> | Yes<br>No                                                                |
| <b>protection class IP on the front acc. to IEC 60529</b>                                                                                                                     | IP00; IP20 with box terminal/cover                                       |
| <b>touch protection on the front acc. to IEC 60529</b>                                                                                                                        | finger-safe, for vertical contact from the front with box terminal/cover |
| suitability for use safety-related switching OFF                                                                                                                              | Yes                                                                      |

#### Certificates/ approvals

|                          |     |
|--------------------------|-----|
| General Product Approval | EMC |
|--------------------------|-----|



[KC](#)



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



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



[Miscellaneous](#)

[Confirmation](#)

[Confirmation](#)

[Miscellaneous](#)

#### Railway

#### Further information

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=3RT1055-6AF36>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6AF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AF36>

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

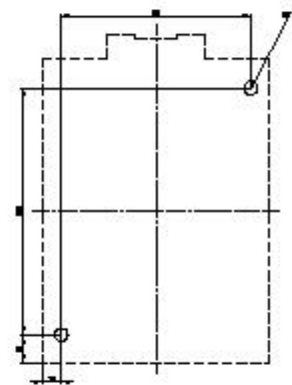
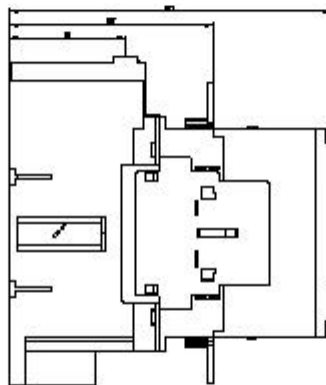
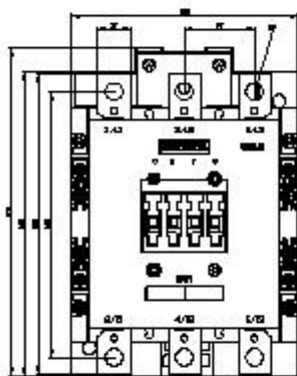
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1055-6AF36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-6AF36&lang=en)

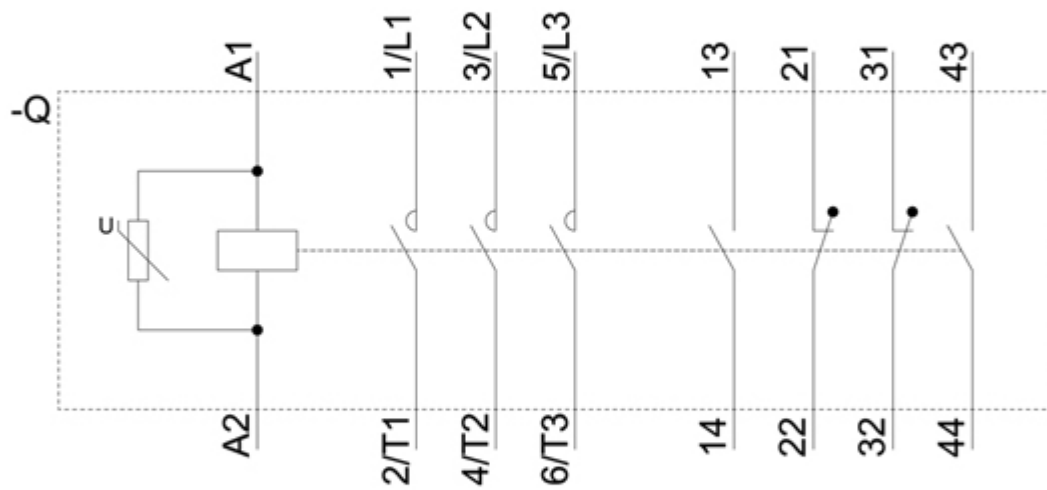
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AF36/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AF36&objecttype=14&gridview=view1>





last modified:

12/18/2020 