



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC  
Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional  
main circuit: busbar control and auxiliary circuit: screw terminal

|                          |                 |
|--------------------------|-----------------|
| product brand name       | SIRIUS          |
| product designation      | Power contactor |
| product type designation | 3RT1            |

### General technical data

|                                                                                                                                                                                                                                         |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| size of contactor                                                                                                                                                                                                                       | S6                                                       |
| product extension                                                                                                                                                                                                                       |                                                          |
| <ul style="list-style-type: none"> <li>function module for communication</li> <li>auxiliary switch</li> </ul>                                                                                                                           | No<br>Yes                                                |
| power loss [W] for rated value of the current                                                                                                                                                                                           |                                                          |
| <ul style="list-style-type: none"> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> </ul>                                                               | 39 W<br>13 W<br>5.2 W                                    |
| insulation voltage                                                                                                                                                                                                                      |                                                          |
| <ul style="list-style-type: none"> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                                                           | 1 000 V<br>500 V                                         |
| surge voltage resistance                                                                                                                                                                                                                |                                                          |
| <ul style="list-style-type: none"> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> </ul>                                                                                                                 | 8 kV<br>6 kV                                             |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1                                                                                                                                   | 690 V                                                    |
| shock resistance at rectangular impulse                                                                                                                                                                                                 |                                                          |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC</li> </ul>                                                                                                                                                                  | 8,5g / 5 ms, 4,2g / 10 ms<br>8,5g / 5 ms, 4,2g / 10 ms   |
| shock resistance with sine pulse                                                                                                                                                                                                        |                                                          |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC</li> </ul>                                                                                                                                                                  | 13,4g / 5 ms, 6,5g / 10 ms<br>13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (switching cycles)                                                                                                                                                                                              |                                                          |
| <ul style="list-style-type: none"> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> </ul> | 10 000 000<br>5 000 000<br>10 000 000                    |
| reference code according to IEC 81346-2                                                                                                                                                                                                 | Q                                                        |
| Substance Prohibition (Date)                                                                                                                                                                                                            | 05/01/2012                                               |

### Ambient conditions

|                                                                                            |                                  |
|--------------------------------------------------------------------------------------------|----------------------------------|
| installation altitude at height above sea level maximum                                    | 2 000 m                          |
| ambient temperature                                                                        |                                  |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul> | -25 ... +60 °C<br>-55 ... +80 °C |
| relative humidity minimum                                                                  | 10 %                             |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                             | 95 %                             |

## Main circuit

|                                                                        |                    |
|------------------------------------------------------------------------|--------------------|
| <b>number of poles for main current circuit</b>                        | 3                  |
| <b>number of NO contacts for main contacts</b>                         | 3                  |
| <b>operating voltage</b>                                               |                    |
| • at AC-3 rated value maximum                                          | 1 000 V            |
| • at AC-3e rated value maximum                                         | 1 000 V            |
| <b>operational current</b>                                             |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 215 A              |
| • at AC-1                                                              |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 215 A              |
| — up to 690 V at ambient temperature 60 °C rated value                 | 185 A              |
| — up to 1000 V at ambient temperature 40 °C rated value                | 100 A              |
| — up to 1000 V at ambient temperature 60 °C rated value                | 100 A              |
| • at AC-3                                                              |                    |
| — at 400 V rated value                                                 | 185 A              |
| — at 500 V rated value                                                 | 185 A              |
| — at 690 V rated value                                                 | 170 A              |
| — at 1000 V rated value                                                | 65 A               |
| • at AC-3e                                                             |                    |
| — at 400 V rated value                                                 | 185 A              |
| — at 500 V rated value                                                 | 185 A              |
| — at 690 V rated value                                                 | 170 A              |
| — at 1000 V rated value                                                | 65 A               |
| • at AC-4 at 400 V rated value                                         | 160 A              |
| • at AC-5a up to 690 V rated value                                     | 189 A              |
| • at AC-5b up to 400 V rated value                                     | 153 A              |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 157 A              |
| — up to 400 V for current peak value n=20 rated value                  | 157 A              |
| — up to 500 V for current peak value n=20 rated value                  | 157 A              |
| — up to 690 V for current peak value n=20 rated value                  | 157 A              |
| — up to 1000 V for current peak value n=20 rated value                 | 65 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 105 A              |
| — up to 400 V for current peak value n=30 rated value                  | 105 A              |
| — up to 500 V for current peak value n=30 rated value                  | 105 A              |
| — up to 690 V for current peak value n=30 rated value                  | 105 A              |
| — up to 1000 V for current peak value n=30 rated value                 | 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> |                    |
| • at 400 V rated value                                                 | 81 A               |
| • at 690 V rated value                                                 | 65 A               |
| <b>operational current</b>                                             |                    |
| • <b>at 1 current path at DC-1</b>                                     |                    |
| — at 24 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 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 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 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 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 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                                                  | 55 kW                                                       |
| — at 400 V rated value                                                  | 90 kW                                                       |
| — at 500 V rated value                                                  | 132 kW                                                      |
| — at 690 V rated value                                                  | 160 kW                                                      |
| — at 1000 V rated value                                                 | 90 kW                                                       |
| ● <b>at AC-3e</b>                                                       |                                                             |
| — at 230 V rated value                                                  | 55 kW                                                       |
| — at 400 V rated value                                                  | 90 kW                                                       |
| — at 500 V rated value                                                  | 132 kW                                                      |
| — at 690 V rated value                                                  | 160 kW                                                      |
| — at 1000 V rated value                                                 | 90 kW                                                       |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>      |                                                             |
| ● at 400 V rated value                                                  | 45 kW                                                       |
| ● at 690 V rated value                                                  | 65 kW                                                       |
| <b>operating apparent power at AC-6a</b>                                |                                                             |
| ● up to 230 V for current peak value n=20 rated value                   | 60 000 kVA                                                  |
| ● up to 400 V for current peak value n=20 rated value                   | 100 000 VA                                                  |
| ● up to 500 V for current peak value n=20 rated value                   | 130 000 VA                                                  |
| ● up to 690 V for current peak value n=20 rated value                   | 180 000 VA                                                  |
| ● up to 1000 V for current peak value n=20 rated value                  | 110 000 VA                                                  |
| <b>operating apparent power at AC-6a</b>                                |                                                             |
| ● up to 230 V for current peak value n=30 rated value                   | 40 000 VA                                                   |
| ● up to 400 V for current peak value n=30 rated value                   | 70 000 VA                                                   |
| ● up to 500 V for current peak value n=30 rated value                   | 90 000 VA                                                   |
| ● up to 690 V for current peak value n=30 rated value                   | 120 000 VA                                                  |
| ● up to 1000 V for current peak value n=30 rated value                  | 110 000 VA                                                  |
| <b>short-time withstand current in cold operating state up to 40 °C</b> |                                                             |
| ● limited to 1 s switching at zero current maximum                      | 2 900 A; Use minimum cross-section acc. to AC-1 rated value |
| ● limited to 5 s switching at zero current maximum                      | 2 084 A; Use minimum cross-section acc. to AC-1 rated value |
| ● limited to 10 s switching at zero current maximum                     | 1 480 A; Use minimum cross-section acc. to AC-1 rated value |
| ● limited to 30 s switching at zero current maximum                     | 968 A; Use minimum cross-section acc. to AC-1 rated value   |

|                                                                                                       |                                                           |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• limited to 60 s switching at zero current maximum</li> </ul> | 801 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-3e 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 VA                                                    |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 300 VA                                                    |
| <b>inductive power factor with closing power of the coil</b>                                          |                                                           |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                          | 0.9                                                       |
| <ul style="list-style-type: none"> <li>• at 60 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 VA                                                    |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 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> </ul>                                          | 0.8                                                       |
| <ul style="list-style-type: none"> <li>• at 60 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> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                      | 3 A<br>2 A<br>1 A<br>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>                                                                                                                                                                                                                                                                                                                                                                                                                      | 180 A<br>192 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>60 hp<br>75 hp<br>150 hp<br>200 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>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> </ul>                                                                                                                                                                                                                                                                                                                                                      | Connection bar<br>screw-type terminals<br>Screw-type terminals                                                                         |

- of magnet coil
- width of connection bar**
- thickness of connection bar**
- diameter of holes**
- number of holes**
- type of connectable conductor cross-sections**
  - at AWG cables for main contacts
- connectable conductor cross-section for main contacts**
  - stranded
- connectable conductor cross-section for auxiliary contacts**
  - solid or stranded
  - finely stranded with core end processing
- type of connectable conductor cross-sections**
  - for auxiliary contacts
    - solid
    - solid or stranded
    - finely stranded with core end processing
  - at AWG cables for auxiliary contacts
- AWG number as coded connectable conductor cross section**
  - for auxiliary contacts

Screw-type terminals

17 mm

3 mm

9 mm

1

4 ... 250 kcmil

25 ... 120 mm<sup>2</sup>

0.5 ... 4 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

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>)

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>)

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

#### Safety related data

##### product function

- mirror contact according to IEC 60947-4-1
- positively driven operation according to IEC 60947-5-1

Yes

No

B10 value with high demand rate according to SN 31920

1 000 000

**protection class IP on the front according to IEC 60529**

IP00; IP20 with box terminal/cover

**touch protection on the front according to IEC 60529**

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



[Confirmation](#)



[KC](#)



| EMC | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|-----|---------------------------------------|---------------------------|-------------------|
|-----|---------------------------------------|---------------------------|-------------------|



[Type Examination Certificate](#)



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

| Test Certificates | Marine / Shipping |
|-------------------|-------------------|
|-------------------|-------------------|

[Miscellaneous](#)



| other | 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=3RT1056-6AF36>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6AF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36>

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

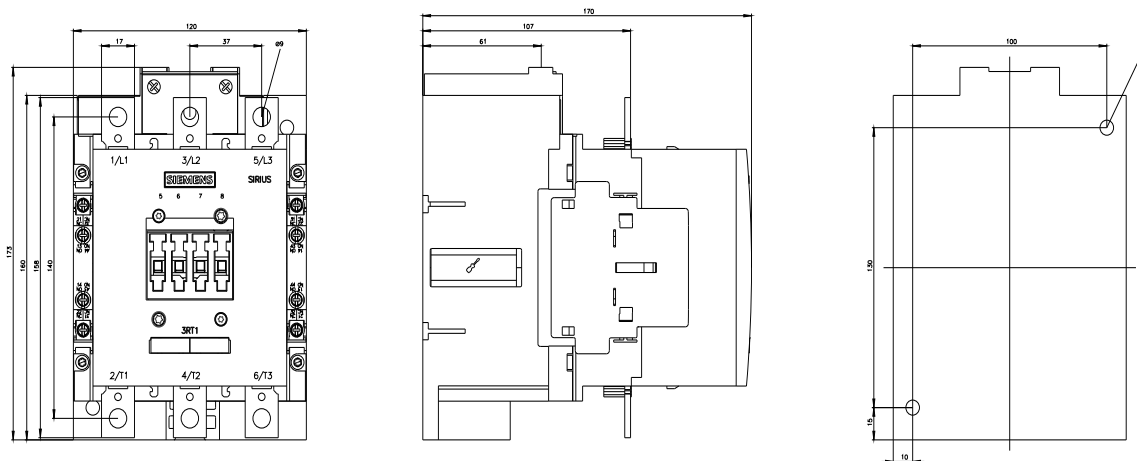
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1056-6AF36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6AF36&lang=en)

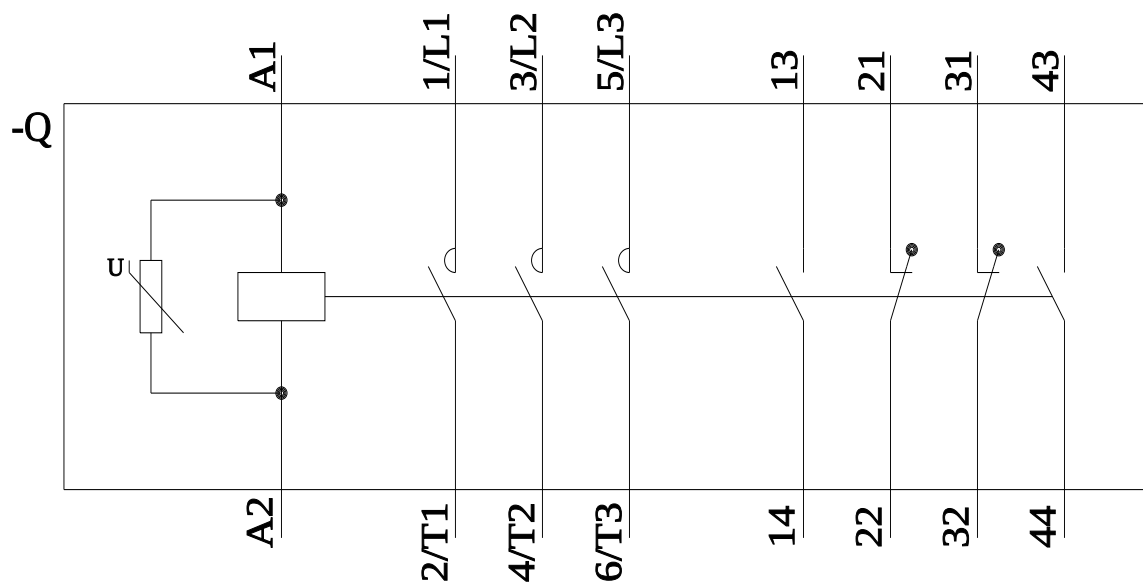
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6AF36&objecttype=14&gridview=view1>





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