



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 230 V AC 50/60 Hz, 3-pole size S0 screw terminals

|                                                                                                       |                            |
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| <b>product brand name</b>                                                                             | SIRIUS                     |
| <b>product designation</b>                                                                            | Power contactor            |
| <b>product type designation</b>                                                                       | 3RT2                       |
| <b>General technical data</b>                                                                         |                            |
| <b>size of contactor</b>                                                                              | S0                         |
| <b>product extension</b>                                                                              |                            |
| • function module for communication                                                                   | No                         |
| • auxiliary switch                                                                                    | Yes                        |
| <b>power loss [W] for rated value of the current</b>                                                  |                            |
| • at AC in hot operating state                                                                        | 6.3 W                      |
| • at AC in hot operating state per pole                                                               | 2.3 W                      |
| • without load current share typical                                                                  | 10.5 W                     |
| <b>insulation voltage</b>                                                                             |                            |
| • of main circuit with degree of pollution 3 rated value                                              | 690 V                      |
| • of auxiliary circuit with degree of pollution 3 rated value                                         | 690 V                      |
| <b>surge voltage resistance</b>                                                                       |                            |
| • of main circuit rated value                                                                         | 6 kV                       |
| • of auxiliary circuit rated value                                                                    | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V                      |
| <b>shock resistance at rectangular impulse</b>                                                        |                            |
| • at AC                                                                                               | 8,3g / 5 ms, 5,3g / 10 ms  |
| <b>shock resistance with sine pulse</b>                                                               |                            |
| • at AC                                                                                               | 13,5g / 5 ms, 8,3g / 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 according to IEC 81346-2</b>                                                        | Q                          |
| <b>Substance Prohibitance (Date)</b>                                                                  | 10/01/2009                 |
| <b>Ambient conditions</b>                                                                             |                            |
| installation altitude at height above sea level maximum                                               | 2 000 m                    |
| <b>ambient temperature</b>                                                                            |                            |
| • during operation                                                                                    | -25 ... +60 °C             |
| • during storage                                                                                      | -55 ... +80 °C             |
| <b>relative humidity minimum</b>                                                                      | 10 %                       |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>                                 | 95 %                       |

| 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                                          | 690 V              |
| • at AC-3e rated value maximum                                         | 690 V              |
| <b>operational current</b>                                             |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 50 A               |
| • at AC-1                                                              |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 50 A               |
| — up to 690 V at ambient temperature 60 °C rated value                 | 42 A               |
| • at AC-3                                                              |                    |
| — at 400 V rated value                                                 | 32 A               |
| — at 500 V rated value                                                 | 32 A               |
| — at 690 V rated value                                                 | 21 A               |
| • at AC-3e                                                             |                    |
| — at 400 V rated value                                                 | 32 A               |
| — at 500 V rated value                                                 | 32 A               |
| — at 690 V rated value                                                 | 21 A               |
| • at AC-4 at 400 V rated value                                         | 22 A               |
| • at AC-5a up to 690 V rated value                                     | 44 A               |
| • at AC-5b up to 400 V rated value                                     | 26.5 A             |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 30.8 A             |
| — up to 400 V for current peak value n=20 rated value                  | 30.8 A             |
| — up to 500 V for current peak value n=20 rated value                  | 27 A               |
| — up to 690 V for current peak value n=20 rated value                  | 21 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 20.5 A             |
| — up to 400 V for current peak value n=30 rated value                  | 20.5 A             |
| — up to 500 V for current peak value n=30 rated value                  | 18 A               |
| — up to 690 V for current peak value n=30 rated value                  | 18 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 10 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 12 A               |
| • at 690 V rated value                                                 | 12 A               |
| <b>operational current</b>                                             |                    |
| • <b>at 1 current path at DC-1</b>                                     |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 4.5 A              |
| — at 220 V rated value                                                 | 1 A                |
| — at 440 V rated value                                                 | 0.4 A              |
| — at 600 V rated value                                                 | 0.25 A             |
| • <b>with 2 current paths in series at DC-1</b>                        |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 35 A               |
| — at 220 V rated value                                                 | 5 A                |
| — at 440 V rated value                                                 | 1 A                |
| — at 600 V rated value                                                 | 0.8 A              |
| • <b>with 3 current paths in series at DC-1</b>                        |                    |

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| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35 A<br>35 A<br>35 A<br>2.9 A<br>1.4 A                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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>● <b>with 2 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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>● <b>with 3 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 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> | 20 A<br>2.5 A<br>1 A<br>0.09 A<br>0.06 A<br><br>35 A<br>15 A<br>3 A<br>0.27 A<br>0.16 A<br><br>35 A<br>35 A<br>10 A<br>0.6 A<br>0.6 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> </ul> </li> <li>● at AC-3e <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                | 7.5 kW<br>15 kW<br>15 kW<br>18.5 kW<br><br>7.5 kW<br>15 kW<br>15 kW<br>18.5 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 kW<br>10.3 kW                                                                                                                                                                                                                                                                                               |
| <b>operating apparent power at AC-6a</b> <ul style="list-style-type: none"> <li>● up to 230 V for current peak value n=20 rated value</li> <li>● up to 400 V for current peak value n=20 rated value</li> <li>● up to 500 V for current peak value n=20 rated value</li> <li>● up to 690 V for current peak value n=20 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12.2 kVA<br>21.3 kVA<br>23.3 kVA<br>25 kVA                                                                                                                                                                                                                                                                    |
| <b>operating apparent power at AC-6a</b> <ul style="list-style-type: none"> <li>● up to 230 V for current peak value n=30 rated value</li> <li>● up to 400 V for current peak value n=30 rated value</li> <li>● up to 500 V for current peak value n=30 rated value</li> <li>● up to 690 V for current peak value n=30 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8.1 kVA<br>14.2 kVA<br>15.5 kVA<br>21.5 kVA                                                                                                                                                                                                                                                                   |
| <b>short-time withstand current in cold operating state up to 40 °C</b> <ul style="list-style-type: none"> <li>● limited to 1 s switching at zero current maximum</li> <li>● limited to 5 s switching at zero current maximum</li> <li>● limited to 10 s switching at zero current maximum</li> <li>● limited to 30 s switching at zero current maximum</li> <li>● limited to 60 s switching at zero current maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                           | 499 A; Use minimum cross-section acc. to AC-1 rated value<br>395 A; Use minimum cross-section acc. to AC-1 rated value<br>260 A; Use minimum cross-section acc. to AC-1 rated value<br>186 A; Use minimum cross-section acc. to AC-1 rated value<br>152 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b> <ul style="list-style-type: none"> <li>● at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 000 1/h                                                                                                                                                                                                                                                                                                     |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>● at AC-1 maximum</li> <li>● at AC-2 maximum</li> <li>● at AC-3 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 000 1/h<br>750 1/h<br>750 1/h                                                                                                                                                                                                                                                                               |

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|---------------------------------------------------------------------------------------|-------------------------------------------------|
| <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>                   | 250 1/h                                         |
| <b>Control circuit/ Control</b>                                                       |                                                 |
| <b>type of voltage of the control supply voltage</b>                                  | AC                                              |
| <b>control supply voltage at AC</b>                                                   |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>              | 230 V                                           |
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>              | 230 V                                           |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.8 ... 1.1                                     |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.85 ... 1.1                                    |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 81 VA                                           |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 79 VA                                           |
| <b>inductive power factor with closing power of the coil</b>                          |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.72                                            |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.74                                            |
| <b>apparent holding power of magnet coil at AC</b>                                    |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 10.5 VA                                         |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 8.5 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>                          | 0.25                                            |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.28                                            |
| <b>closing delay</b>                                                                  |                                                 |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 8 ... 40 ms                                     |
| <b>opening delay</b>                                                                  |                                                 |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                             | 4 ... 16 ms                                     |
| <b>arcing time</b>                                                                    | 10 ... 10 ms                                    |
| <b>control version of the switch operating mechanism</b>                              | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>                                                              |                                                 |
| number of NC contacts for auxiliary contacts instantaneous contact                    | 1                                               |
| number of NO contacts for auxiliary contacts instantaneous contact                    | 1                                               |
| operational current at AC-12 maximum                                                  | 10 A                                            |
| <b>operational current at AC-15</b>                                                   |                                                 |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>              | 10 A                                            |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>              | 3 A                                             |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>              | 2 A                                             |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>              | 1 A                                             |
| <b>operational current at DC-12</b>                                                   |                                                 |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>               | 10 A                                            |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>               | 6 A                                             |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>               | 6 A                                             |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>              | 3 A                                             |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>              | 2 A                                             |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>              | 1 A                                             |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>              | 0.15 A                                          |
| <b>operational current at DC-13</b>                                                   |                                                 |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>               | 10 A                                            |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>               | 2 A                                             |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>               | 2 A                                             |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>              | 1 A                                             |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>              | 0.9 A                                           |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>              | 0.3 A                                           |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>              | 0.1 A                                           |
| <b>contact reliability of auxiliary contacts</b>                                      | 1 faulty switching per 100 million (17 V, 1 mA) |
| <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> </ul>              | 27 A                                            |

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| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27 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 110/120 V rated value</li> <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>                                                                                      | 2 hp<br>5 hp<br><br>10 hp<br>10 hp<br>20 hp<br>25 hp                                                                                                                                                                                                               |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A600 / P600                                                                                                                                                                                                                                                        |
| <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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)<br>gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)<br>gG: 10 A (500 V, 1 kA)                                                                                               |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                    |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface                                                                                                                               |
| <b>fastening method</b> <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715<br>Yes                                                                                                                                                                      |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 85 mm                                                                                                                                                                                                                                                              |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 45 mm                                                                                                                                                                                                                                                              |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97 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> | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 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> <li>• of magnet coil</li> </ul>                                                                                                                                                                                                                                                                                                               | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals                                                                                                                                                                       |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                                      | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br>2x (16 ... 12), 2x (14 ... 8) |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                            | 1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup>                                                                                                                                                                                                               |

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| <ul style="list-style-type: none"> <li>finely stranded with core end processing</li> </ul>                                                                                                                                                        | 1 ... 10 mm <sup>2</sup>                                                                                                                                                         |
| <b>connectable conductor cross-section for auxiliary contacts</b>                                                                                                                                                                                 |                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>solid or stranded</li> </ul>                                                                                                                                                                               | 0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>finely stranded with core end processing</li> </ul>                                                                                                                                                        | 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 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> )<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) |
| <b>AWG number as coded connectable conductor cross section</b>                                                                                                                                                                                    |                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul>                                                                                                                                               | 16 ... 8<br>20 ... 14                                                                                                                                                            |

| Safety related data                                                                                                                               |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>product function</b>                                                                                                                           |                                                  |
| <ul style="list-style-type: none"> <li>mirror contact according to IEC 60947-4-1</li> </ul>                                                       | Yes                                              |
| B10 value with high demand rate according to SN 31920                                                                                             | 450 000                                          |
| <b>proportion of dangerous failures</b>                                                                                                           |                                                  |
| <ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> | 40 %<br>73 %                                     |
| failure rate [FIT] with low demand rate according to SN 31920                                                                                     | 100 FIT                                          |
| T1 value for proof test interval or service life according to IEC 61508                                                                           | 20 y                                             |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                    | IP20                                             |
| <b>touch protection on the front according to IEC 60529</b>                                                                                       | finger-safe, for vertical contact from the front |
| <b>suitability for use</b>                                                                                                                        |                                                  |
| <ul style="list-style-type: none"> <li>safety-related switching OFF</li> </ul>                                                                    | Yes                                              |

| Certificates/ approvals         |
|---------------------------------|
| <b>General Product Approval</b> |



[Confirmation](#)



[KC](#)



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



[Type Examination Certificate](#)



EG-Konf.

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

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



| other |
|-------|
|-------|

**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=3RT2027-1AL20>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AL20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AL20>

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

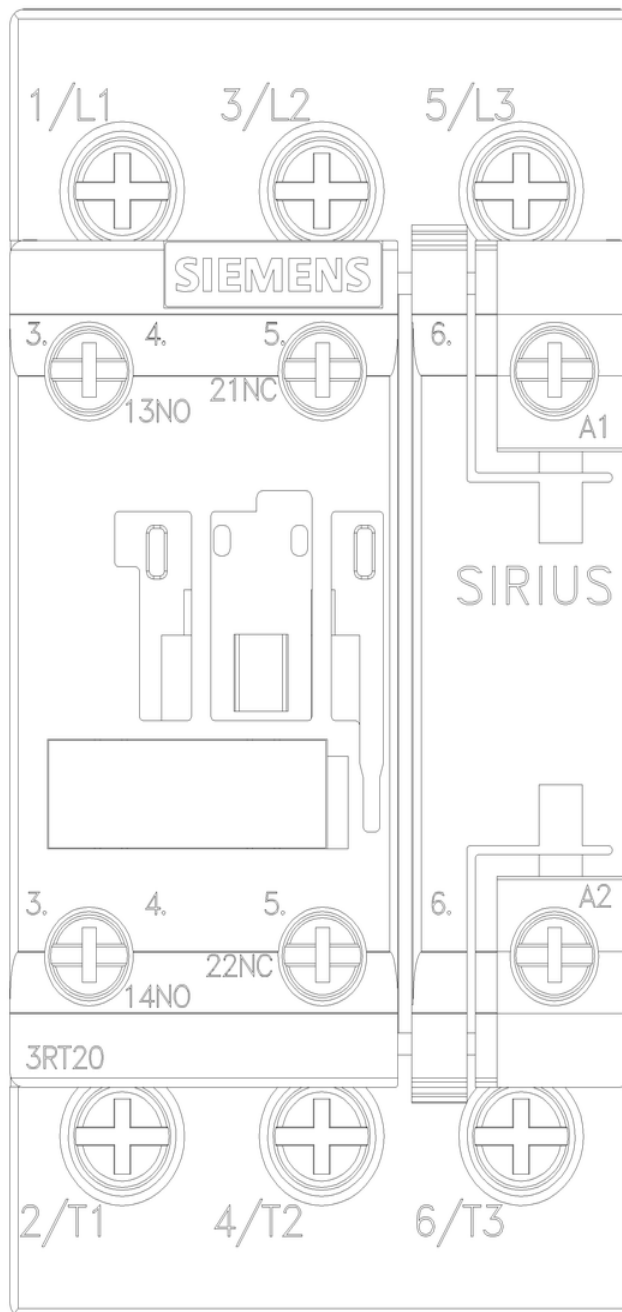
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2027-1AL20&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AL20&lang=en)

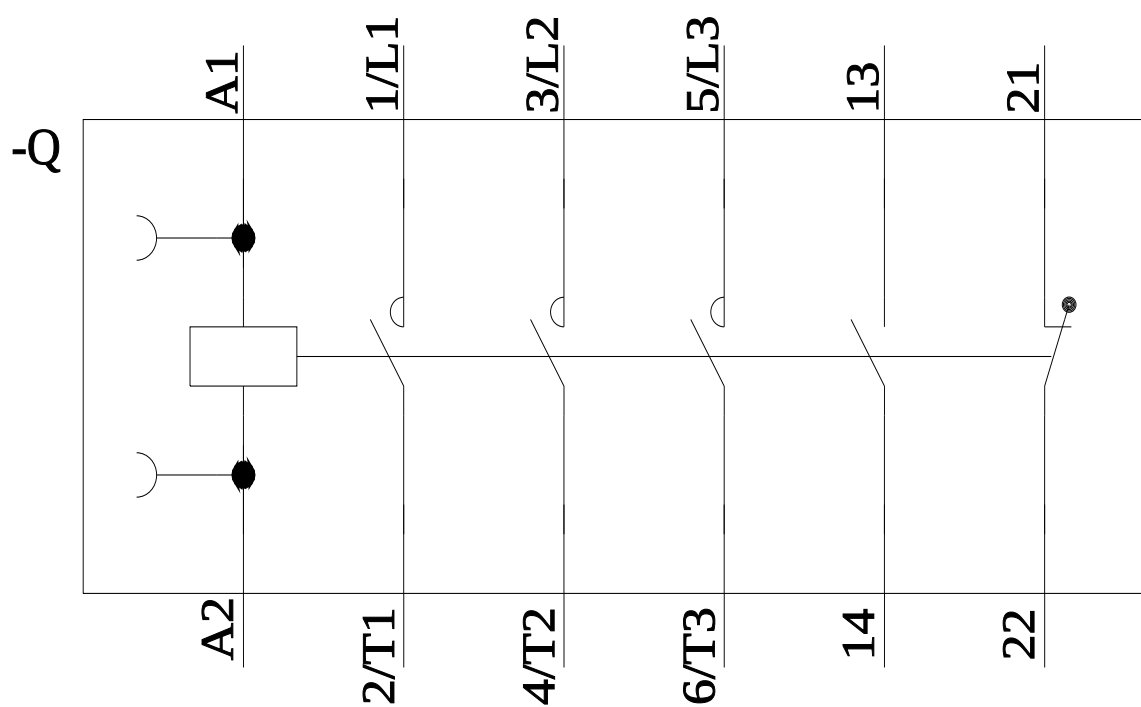
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AL20/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AL20&objecttype=14&gridview=view1>





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