



Contactor DC 220 V AC3 4 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

|                                                                                                              |                              |
|--------------------------------------------------------------------------------------------------------------|------------------------------|
| product brand name                                                                                           | SIRIUS                       |
| product designation                                                                                          | Power contactor              |
| product type designation                                                                                     | 3RT6                         |
| <b>General technical data</b>                                                                                |                              |
| size of contactor                                                                                            | S00                          |
| product extension auxiliary switch                                                                           | Yes                          |
| power loss [W] for rated value of the current                                                                |                              |
| • at AC in hot operating state per pole                                                                      | 0.7 W                        |
| • without load current share typical                                                                         | 4 W                          |
| type of calculation of power loss current-dependent                                                          | quadratic                    |
| insulation voltage rated value                                                                               | 690 V                        |
| degree of pollution                                                                                          | 3                            |
| surge voltage resistance rated value                                                                         | 6 kV                         |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                        |
| shock resistance at rectangular impulse                                                                      |                              |
| • at DC                                                                                                      | 6,7 g / 5 ms, 4,2 g / 10 ms  |
| shock resistance with sine pulse                                                                             |                              |
| • at DC                                                                                                      | 10,5 g / 5 ms, 6,6 g / 10 ms |
| mechanical service life (operating cycles)                                                                   |                              |
| • of contactor typical                                                                                       | 30 000 000                   |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000                   |
| Substance Prohibitance (day/month/year)                                                                      | 05/01/2012                   |
| Net Weight                                                                                                   | 0.28 kg                      |
| <b>Ambient conditions</b>                                                                                    |                              |
| installation altitude at height above sea level maximum                                                      | 2 000 m                      |
| ambient temperature                                                                                          |                              |
| • during operation                                                                                           | -25 ... +60 °C               |
| • during storage                                                                                             | -55 ... +80 °C               |
| <b>Main circuit</b>                                                                                          |                              |
| number of poles for main current circuit                                                                     | 3                            |
| number of NO contacts for main contacts                                                                      | 3                            |
| number of NC contacts for main contacts                                                                      | 0                            |
| operating voltage                                                                                            |                              |
| • at AC-3 rated value maximum                                                                                | 690 V                        |
| • at AC-3e rated value maximum                                                                               | 690 V                        |
| operational current                                                                                          |                              |
| • at AC-1 up to 690 V                                                                                        |                              |
| — at ambient temperature 40 °C rated value                                                                   | 22 A                         |

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| <ul style="list-style-type: none"> <li>— at ambient temperature 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20 A                                                                                               |
| <ul style="list-style-type: none"> <li>● at AC-3 <ul style="list-style-type: none"> <li>— at 400 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 400 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                         | 9 A<br>6.7 A                                                                                       |
| <b>connectable conductor cross-section in main circuit at AC-1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at 60 °C minimum permissible</li> <li>● at 40 °C minimum permissible</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5 mm <sup>2</sup><br>4 mm <sup>2</sup>                                                           |
| <b>operational current for approx. 200000 operating cycles at AC-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at 400 V rated value</li> <li>● at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4.1 A<br>3.3 A                                                                                     |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at AC-1 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 230 V at 60 °C rated value</li> <li>— at 400 V at 60 °C rated value</li> <li>— at 690 V at 60 °C rated value</li> </ul> </li> <li>● at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 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 690 V rated value</li> </ul> </li> </ul> | 7.5 kW<br>7.5 kW<br>13 kW<br>22 kW<br><br>2.2 kW<br>4 kW<br>5.5 kW<br><br>2.2 kW<br>4 kW<br>5.5 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 kW<br>2.5 kW                                                                                     |
| <b>no-load switching frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at DC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 000 1/h                                                                                         |
| <b>operating frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at AC-1 maximum</li> <li>● at AC-3 maximum</li> <li>● at AC-3e maximum</li> <li>● at AC-4 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 000 1/h<br>750 1/h<br>750 1/h<br>250 1/h                                                         |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DC                                                                                                 |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 220 V                                                                                              |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                    |
| <ul style="list-style-type: none"> <li>● initial value</li> <li>● full-scale value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.8<br>1.1                                                                                         |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4 W                                                                                                |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4 W                                                                                                |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                    |
| number of NC contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                                                                                                  |
| 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> <li>● at 400 V rated value</li> <li>● at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 A<br>3 A<br>1 A                                                                                 |
| <b>operational current at DC-12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |
| <ul style="list-style-type: none"> <li>● at 24 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 A                                                                                                |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> </ul>                                                                                                                                                                                                                | 3 A<br>1 A                                                                                                                                    |
| <b>operational current at DC-13</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> </ul>                                                                                                                                                                                 | 6 A<br>1 A<br>0.3 A                                                                                                                           |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                                                                        | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                               |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |
| yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value                                                                                                                                                                                                                                       | 5 hp                                                                                                                                          |
| <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 coordination 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A<br>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A<br>fuse gL/gG: 10 A                          |
| <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          |
| fastening method side-by-side mounting                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                           |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                 | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022                                                                      |
| <b>height</b>                                                                                                                                                                                                                                                                                                           | 57.5 mm                                                                                                                                       |
| <b>width</b>                                                                                                                                                                                                                                                                                                            | 45 mm                                                                                                                                         |
| <b>depth</b>                                                                                                                                                                                                                                                                                                            | 73 mm                                                                                                                                         |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>                                                                                                                                                                         | 0 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> </ul>                                                                                                                                                                                               | screw-type terminals<br>screw-type terminals                                                                                                  |
| type of connectable conductor cross-sections for main contacts                                                                                                                                                                                                                                                          |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                               | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)                                          |
| <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>• for AWG cables for auxiliary contacts</li> </ul>                                                                  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                              |                                                                                                                                               |
| product function mirror contact according to IEC 60947-4-1                                                                                                                                                                                                                                                              | Yes                                                                                                                                           |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                |                                                                                                                                               |
| <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>Approvals Certificates</b>                                                                                                                                                                                                                                                                                           |                                                                                                                                               |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                         |                                                                                                                                               |



[Confirmation](#)



|     |                      |       |                 |             |
|-----|----------------------|-------|-----------------|-------------|
| EMV | Maritime application | other | Dangerous goods | Environment |
|-----|----------------------|-------|-----------------|-------------|



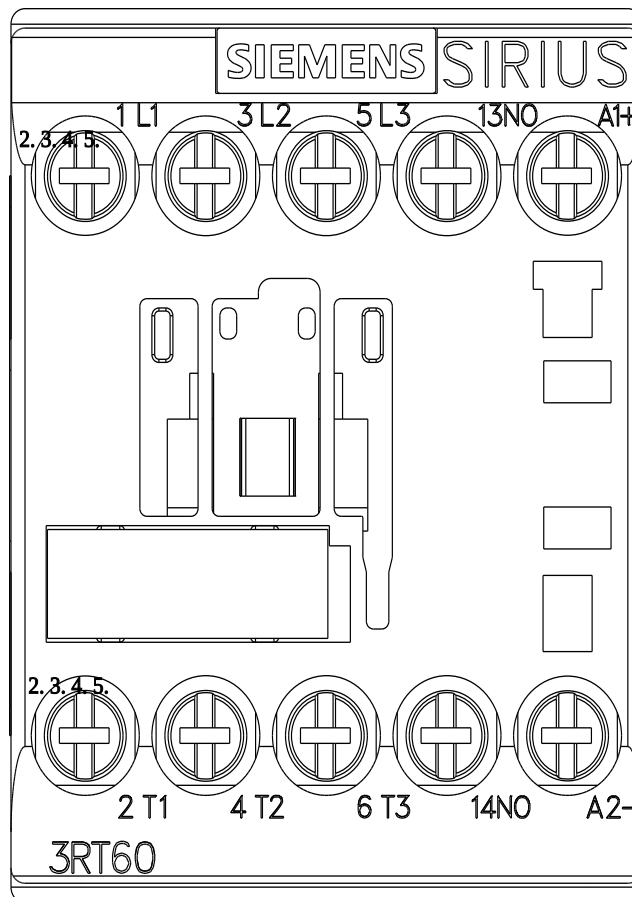
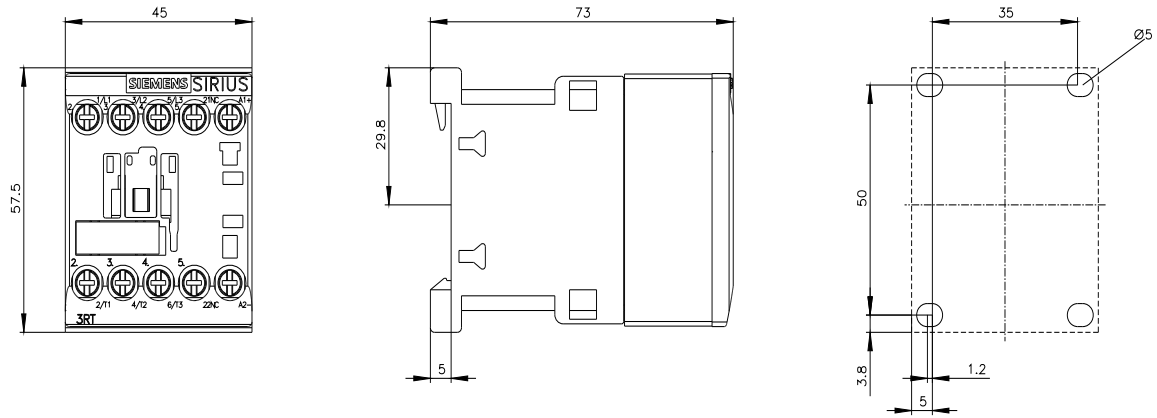
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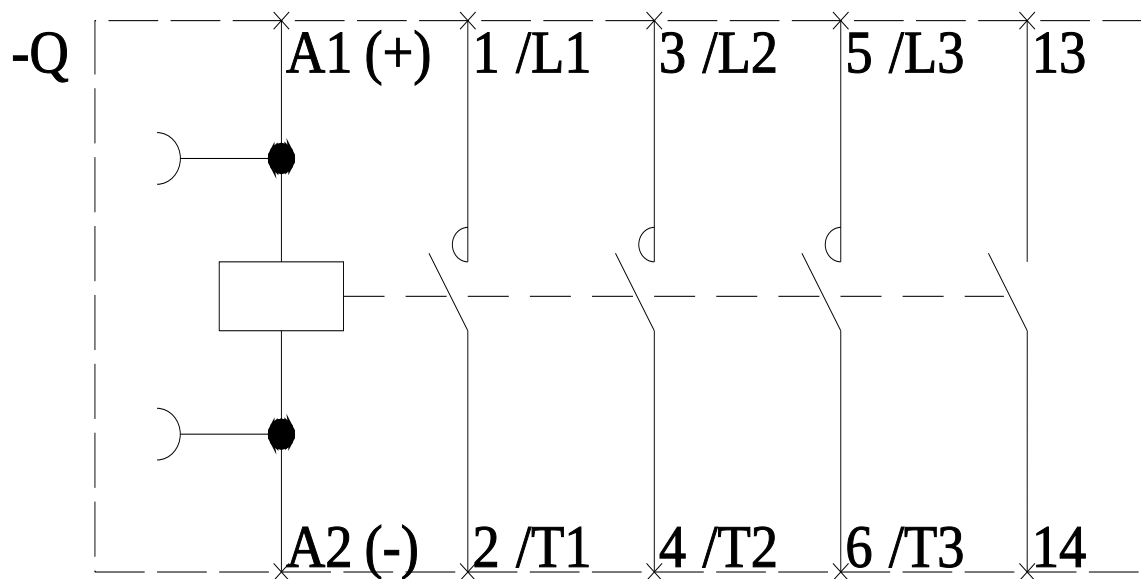
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