



contactor AC-1, 110 A, 400 V / 40 °C, 4-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

|                                                                               |                             |
|-------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                            | SIRIUS                      |
| product designation                                                           | Contactor                   |
| product type designation                                                      | 3RT23                       |
| <b>General technical data</b>                                                 |                             |
| size of contactor                                                             | S2                          |
| product extension                                                             |                             |
| • function module for communication                                           | No                          |
| • auxiliary switch                                                            | Yes                         |
| power loss [W] for rated value of the current                                 |                             |
| • at AC in hot operating state                                                | 38.8 W                      |
| • at AC in hot operating state per pole                                       | 9.7 W                       |
| type of calculation of power loss depending on pole                           | quadratic                   |
| insulation voltage                                                            |                             |
| • of main circuit with degree of pollution 3 rated value                      | 690 V                       |
| • of the auxiliary and control circuit with degree of pollution 3 rated value | 690 V                       |
| surge voltage resistance                                                      |                             |
| • of main circuit rated value                                                 | 6 kV                        |
| • of auxiliary circuit rated value                                            | 6 kV                        |
| shock resistance at rectangular impulse                                       |                             |
| • at AC                                                                       | 11.8g / 5 ms, 7.4g / 10 ms  |
| shock resistance with sine pulse                                              |                             |
| • at AC                                                                       | 18.5g / 5 ms, 11.6g / 10 ms |
| mechanical service life (operating cycles)                                    |                             |
| • of contactor typical                                                        | 10 000 000                  |
| • of the contactor with added auxiliary switch block typical                  | 10 000 000                  |
| reference code according to IEC 81346-2                                       | Q                           |
| Substance Prohibition (Date)                                                  | 10/01/2014                  |
| Weight                                                                        | 1.145 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              |
| relative humidity minimum                                                     | 10 %                        |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                | 95 %                        |
| <b>Environmental footprint</b>                                                |                             |
| Environmental Product Declaration(EPD)                                        | Yes                         |
| global warming potential [CO2 eq] total                                       | 302 kg                      |
| global warming potential [CO2 eq] during manufacturing                        | 4.83 kg                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |
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| global warming potential [CO2 eq] during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 297 kg                                                                                                                                                                                                                                                             |
| global warming potential [CO2 eq] after end of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.64 kg                                                                                                                                                                                                                                                           |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |
| <b>number of poles for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4                                                                                                                                                                                                                                                                  |
| <b>number of NO contacts for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4                                                                                                                                                                                                                                                                  |
| <b>operational current</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 110 A                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>at AC-1 <ul style="list-style-type: none"> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 110 A<br>95 A                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 38 A                                                                                                                                                                                                                                                               |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 35 mm²                                                                                                                                                                                                                                                             |
| <b>operational current</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>at 1 current path at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> <li>with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> <li>with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> <li>at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> <li>with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 60 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> </ul> </li> </ul> | 55 A<br>23 A<br>4.5 A<br>1 A<br>0.4 A<br><br>55 A<br>55 A<br>45 A<br>5 A<br>1 A<br><br>55 A<br>55 A<br>55 A<br>45 A<br>2.9 A<br><br>20 A<br>5 A<br>2.5 A<br>1 A<br>0.1 A<br><br>45 A<br>45 A<br>25 A<br>5 A<br>0.27 A<br><br>45 A<br>45 A<br>45 A<br>25 A<br>0.6 A |
| <b>no-load switching frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 000 1/h                                                                                                                                                                                                                                                          |
| operating frequency at AC-1 maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 700 1/h                                                                                                                                                                                                                                                            |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |
| <b>type of voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AC                                                                                                                                                                                                                                                                 |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 V                                                                                                                                                                                                                                                               |

|                                                                                                       |                                                 |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>                              | 24 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>                                          | 210 VA                                          |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 188 VA                                          |
| <b>inductive power factor with closing power of the coil</b>                                          |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                          | 0.69                                            |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 0.65                                            |
| <b>apparent holding power of magnet coil at AC</b>                                                    |                                                 |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                          | 17.2 VA                                         |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 16.5 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>                                          | 0.36                                            |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                          | 0.39                                            |
| <b>closing delay</b>                                                                                  |                                                 |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                             | 10 ... 80 ms                                    |
| <b>opening delay</b>                                                                                  |                                                 |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                             | 10 ... 18 ms                                    |
| <b>arcing time</b>                                                                                    | 10 ... 20 ms                                    |
| <b>control version of the switch operating mechanism</b>                                              | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>                                                                              |                                                 |
| <b>number of NC contacts for auxiliary contacts</b>                                                   | 1                                               |
| <ul style="list-style-type: none"> <li>• attachable</li> </ul>                                        | 2                                               |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                             | 1                                               |
| <b>number of NO contacts for auxiliary contacts</b>                                                   | 1                                               |
| <ul style="list-style-type: none"> <li>• attachable</li> </ul>                                        | 2                                               |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                             | 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 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>contact rating of auxiliary contacts according to UL</b>                                           | A600 / P600                                     |
| <b>Short-circuit protection</b>                                                                       |                                                 |
| <b>product function short circuit protection</b>                                                      | No                                              |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required | gG: 10 A (230 V, 400 A)                         |
| <b>design of the fuse link</b>                                                                        |                                                 |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> </ul>  |                                                 |
| — with type of coordination 1 required                                                                | gG: 160 A (690 V, 100 kA)                       |

|                                                                   |                                                                                                                                      |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| — with type of assignment 2 required                              | gR: 80 A (690 V, 100 kA)                                                                                                             |
| • for short-circuit protection of the auxiliary switch required   | gG: 10 A (690 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 |
| 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 60715                                                             |
| <b>height</b>                                                     | 114 mm                                                                                                                               |
| <b>width</b>                                                      | 75 mm                                                                                                                                |
| <b>depth</b>                                                      | 130 mm                                                                                                                               |
| <b>required spacing</b>                                           |                                                                                                                                      |
| • with side-by-side mounting                                      |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 0 mm                                                                                                                                 |
| • for grounded parts                                              |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — at the side                                                     | 6 mm                                                                                                                                 |
| — downwards                                                       | 10 mm                                                                                                                                |
| • for live parts                                                  |                                                                                                                                      |
| — forwards                                                        | 10 mm                                                                                                                                |
| — upwards                                                         | 10 mm                                                                                                                                |
| — downwards                                                       | 10 mm                                                                                                                                |
| — at the side                                                     | 6 mm                                                                                                                                 |
| <b>Connections/ Terminals</b>                                     |                                                                                                                                      |
| <b>type of electrical connection</b>                              |                                                                                                                                      |
| • for main current circuit                                        | screw-type terminals                                                                                                                 |
| • for auxiliary and control circuit                               | screw-type terminals                                                                                                                 |
| • at contactor for auxiliary contacts                             | Screw-type terminals                                                                                                                 |
| • of magnet coil                                                  | Screw-type terminals                                                                                                                 |
| type of connectable conductor cross-sections for main contacts    |                                                                                                                                      |
| • solid or stranded                                               | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²)                                                                                                 |
| • finely stranded with core end processing                        | 2x (1 ... 25 mm²), 1x (1 ... 35 mm²)                                                                                                 |
| <b>connectable conductor cross-section for main contacts</b>      |                                                                                                                                      |
| • solid or stranded                                               | 1 ... 50 mm²                                                                                                                         |
| • finely stranded with core end processing                        | 1 ... 35 mm²                                                                                                                         |
| <b>connectable conductor cross-section for auxiliary contacts</b> |                                                                                                                                      |
| • solid or stranded                                               | 0.5 ... 2.5 mm²                                                                                                                      |
| • finely stranded with core end processing                        | 0.5 ... 2.5 mm²                                                                                                                      |
| • finely stranded without core end processing                     | 0.5 ... 2.5 mm²                                                                                                                      |
| <b>type of connectable conductor cross-sections</b>               |                                                                                                                                      |
| • for auxiliary contacts                                          |                                                                                                                                      |
| — solid                                                           | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)                                                                                          |
| — solid or stranded                                               | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)                                                                                          |
| — finely stranded with core end processing                        | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)                                                                                          |
| • for AWG cables for auxiliary contacts                           | 2x (20 ... 16), 2x (18 ... 14)                                                                                                       |
| <b>AWG number as coded connectable conductor cross section</b>    |                                                                                                                                      |
| • for main contacts                                               | 18 ... 1                                                                                                                             |
| • for auxiliary contacts                                          | 20 ... 14                                                                                                                            |
| <b>Safety related data</b>                                        |                                                                                                                                      |
| <b>product function</b>                                           |                                                                                                                                      |
| • mirror contact according to IEC 60947-4-1                       | Yes                                                                                                                                  |
| • positively driven operation according to IEC 60947-5-1          | No                                                                                                                                   |
| <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>Communication/ Protocol</b>                                    |                                                                                                                                      |
| <b>product function bus communication</b>                         | No                                                                                                                                   |

## Approvals Certificates

### General Product Approval



[Confirmation](#)



[KC](#)

### General Product Approval

#### EMV

#### Test Certificates

#### Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



### Marine / Shipping

### other



[Confirmation](#)

### Railway

### Dangerous goods

### Environment

[Special Test Certificate](#)

[Transport Information](#)



[Environmental Confirmations](#)

## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2337-1AC20>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2337-1AC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AC20>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2337-1AC20&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AC20&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AC20/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2337-1AC20&objecttype=14&gridview=view1>



