



Contactor, AC-3, 50 A/22 kW/400 V, S2, 4-pole, 20-33 V AC/DC, with varistor, 1 NO+1 NC, screw terminal

|                                                                               |                           |
|-------------------------------------------------------------------------------|---------------------------|
| 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                       |
| 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                                                                       | 7.7g / 5 ms, 4.5g / 10 ms |
| • at DC                                                                       | 7.7g / 5 ms, 4.5g / 10 ms |
| shock resistance with sine pulse                                              |                           |
| • at AC                                                                       | 12g / 5 ms, 7g / 10 ms    |
| • at DC                                                                       | 12g / 5 ms, 7g / 10 ms    |
| mechanical service life (switching cycles)                                    |                           |
| • of contactor typical                                                        | 10 000 000                |
| • of the contactor with added auxiliary switch block typical                  | 10 000 000                |
| reference code acc. to IEC 81346-2                                            | Q                         |
| Substance Prohibition (Date)                                                  | 01.10.2014                |
| <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 acc. to IEC 60068-2-30 maximum                     | 95 %                      |
| <b>Main circuit</b>                                                           |                           |
| number of poles for main current circuit                                      | 4                         |
| number of NO contacts for main contacts                                       | 4                         |
| operational current                                                           |                           |
| • at AC-1 at 400 V at ambient temperature 40 °C                               | 60 A                      |

|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                               |
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| rated value                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                               |
| <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> <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-4 at 400 V rated value</li> </ul> | 60 A<br>55 A<br>50 A<br>24 A<br>41 A                                                                                                                                                                                                                                                                          |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                                                                                                                                                                                                                                                    | 25 mm <sup>2</sup>                                                                                                                                                                                                                                                                                            |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> <li>at AC-4 at 400 V rated value</li> </ul>                                                                                                                                                                                                                                                                                 | 22 kW<br>22 kW                                                                                                                                                                                                                                                                                                |
| <b>short-time withstand current in cold operating state up to 40 °C</b>                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>                                                        | 628 A; Use minimum cross-section acc. to AC-1 rated value<br>628 A; Use minimum cross-section acc. to AC-1 rated value<br>468 A; Use minimum cross-section acc. to AC-1 rated value<br>282 A; Use minimum cross-section acc. to AC-1 rated value<br>227 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC</li> </ul>                                                                                                                                                                                                                                                                                                                               | 1 500 1/h<br>1 500 1/h                                                                                                                                                                                                                                                                                        |
| operating frequency at AC-1 maximum                                                                                                                                                                                                                                                                                                                                                                  | 1 000 1/h                                                                                                                                                                                                                                                                                                     |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                               |
| <b>type of voltage</b>                                                                                                                                                                                                                                                                                                                                                                               | AC/DC                                                                                                                                                                                                                                                                                                         |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                 | AC/DC                                                                                                                                                                                                                                                                                                         |
| <b>control supply voltage at AC</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                                 | 20 ... 33 V<br>20 ... 33 V                                                                                                                                                                                                                                                                                    |
| <b>control supply voltage at DC</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                        | 20 ... 33 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>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> <li>at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                         | 0.8 ... 1.1<br>0.8 ... 1.1                                                                                                                                                                                                                                                                                    |
| <b>design of the surge suppressor</b>                                                                                                                                                                                                                                                                                                                                                                | with varistor                                                                                                                                                                                                                                                                                                 |
| <b>inrush current peak</b>                                                                                                                                                                                                                                                                                                                                                                           | 3 A                                                                                                                                                                                                                                                                                                           |
| <b>duration of inrush current peak</b>                                                                                                                                                                                                                                                                                                                                                               | 50 µs                                                                                                                                                                                                                                                                                                         |
| <b>locked-rotor current mean value</b>                                                                                                                                                                                                                                                                                                                                                               | 1 A                                                                                                                                                                                                                                                                                                           |
| <b>locked-rotor current peak</b>                                                                                                                                                                                                                                                                                                                                                                     | 2.6 A                                                                                                                                                                                                                                                                                                         |
| <b>duration of locked-rotor current</b>                                                                                                                                                                                                                                                                                                                                                              | 230 ms                                                                                                                                                                                                                                                                                                        |
| <b>holding current mean value</b>                                                                                                                                                                                                                                                                                                                                                                    | 40 mA                                                                                                                                                                                                                                                                                                         |
| <b>apparent pick-up power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                         | 40 V·A<br>40 V·A                                                                                                                                                                                                                                                                                              |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                         | 2 V·A<br>2 V·A                                                                                                                                                                                                                                                                                                |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                            | 23 W                                                                                                                                                                                                                                                                                                          |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                                                                                                                                                            | 1 W                                                                                                                                                                                                                                                                                                           |
| <b>closing delay</b>                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC</li> </ul>                                                                                                                                                                                                                                                                                                                               | 35 ... 110 ms<br>35 ... 110 ms                                                                                                                                                                                                                                                                                |
| <b>opening delay</b>                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                               |

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| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                      | 30 ... 55 ms                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                      | 30 ... 55 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                                                                                                                                |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required                                                                                          | gG: 10 A (230 V, 400 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                                                                                                                                   |
| <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> </ul> </li> </ul> | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)                                                      |
| <ul style="list-style-type: none"> <li>— with type of assignment 2 required</li> </ul>                                                                                                         | gG: 63 A (690 V, 100 kA)                                                                                                             |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                              | 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 |
| <b>fastening method</b>                                                                                                                                                                        | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715                                               |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                      | Yes                                                                                                                                  |
| <b>height</b>                                                                                                                                                                                  | 114 mm                                                                                                                               |
| <b>width</b>                                                                                                                                                                                   | 55 mm                                                                                                                                |
| <b>depth</b>                                                                                                                                                                                   | 130 mm                                                                                                                               |
| <b>required spacing</b>                                                                                                                                                                        |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> </ul> </li> </ul>                                                   | 10 mm                                                                                                                                |
| <ul style="list-style-type: none"> <li>— upwards</li> </ul>                                                                                                                                    | 10 mm                                                                                                                                |
| <ul style="list-style-type: none"> <li>— downwards</li> </ul>                                                                                                                                  | 10 mm                                                                                                                                |
| <ul style="list-style-type: none"> <li>— at the side</li> </ul>                                                                                                                                | 0 mm                                                                                                                                 |

|                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                           |
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| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                                                                                                                                                                                    |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                         | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals                                                                                                                                                              |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul>                                                                                                                | 2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )<br>2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )<br>2x (18 ... 2), 1x (18 ... 1)                                                                                          |
| <b>connectable conductor cross-section for main contacts</b>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                  | 1 ... 50 mm <sup>2</sup><br>1 ... 35 mm <sup>2</sup>                                                                                                                                                                                                      |
| <b>connectable conductor cross-section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                  | 0.5 ... 2.5 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul>                                                                                     | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14) |
| <b>AWG number as coded connectable conductor cross section</b>                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>                                                                                                                                                                                                                                                    | 18 ... 1<br>20 ... 14                                                                                                                                                                                                                                     |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                           |
| <b>proportion of dangerous failures</b>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                                                                                                                                                                                | 40 %<br>73 %                                                                                                                                                                                                                                              |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>                                                                                                                                                                                                                                                                                  | 20 y                                                                                                                                                                                                                                                      |
| <b>protection class IP on the front acc. to IEC 60529</b>                                                                                                                                                                                                                                                                                                  | IP20                                                                                                                                                                                                                                                      |
| <b>touch protection on the front acc. to IEC 60529</b>                                                                                                                                                                                                                                                                                                     | finger-safe, for vertical contact from the front                                                                                                                                                                                                          |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                           |
| <b>product function bus communication</b>                                                                                                                                                                                                                                                                                                                  | No                                                                                                                                                                                                                                                        |
| <b>Certificates/ approvals</b>                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                           |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                           |



[Confirmation](#)



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



[Type Examination Certificate](#)



[UK Declaration of Conformity](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

## Marine / Shipping



## Marine / Shipping

other

Railway

Dangerous Good



[Confirmation](#)

[Vibration and Shock](#)

[Transport Information](#)

## Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2336-1NB30-4AA0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1NB30-4AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NB30-4AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2336-1NB30-4AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1NB30-4AA0&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NB30-4AA0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1NB30-4AA0&objecttype=14&gridview=view1>



