



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V U<sub>c</sub>: 24 V DC x (0.7-1.25) PLC input 24-110 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal extended rated condition railroad IEC 60077

|                                                                                                              |                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                           | SIRIUS                                                                                                                                                                                                                                              |
| product designation                                                                                          | Power contactor                                                                                                                                                                                                                                     |
| design of the product                                                                                        | With extended operating range                                                                                                                                                                                                                       |
| product type designation                                                                                     | 3RT1                                                                                                                                                                                                                                                |
| <b>General technical data</b>                                                                                |                                                                                                                                                                                                                                                     |
| size of contactor                                                                                            | S10                                                                                                                                                                                                                                                 |
| 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                                                                               | 54 W                                                                                                                                                                                                                                                |
| • at AC in hot operating state per pole                                                                      | 18 W                                                                                                                                                                                                                                                |
| • without load current share typical                                                                         | 3.4 W                                                                                                                                                                                                                                               |
| type of calculation of power loss current-dependent                                                          | quadratic                                                                                                                                                                                                                                           |
| insulation voltage                                                                                           |                                                                                                                                                                                                                                                     |
| • of main circuit with degree of pollution 3 rated value                                                     | 1 000 V                                                                                                                                                                                                                                             |
| • of auxiliary circuit with degree of pollution 3 rated value                                                | 500 V                                                                                                                                                                                                                                               |
| surge voltage resistance                                                                                     |                                                                                                                                                                                                                                                     |
| • of main circuit rated value                                                                                | 8 kV                                                                                                                                                                                                                                                |
| • of auxiliary circuit rated value                                                                           | 6 kV                                                                                                                                                                                                                                                |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 690 V                                                                                                                                                                                                                                               |
| shock resistance for railway applications according to EN 61373                                              | Category 1, Class B                                                                                                                                                                                                                                 |
| shock resistance at rectangular impulse                                                                      |                                                                                                                                                                                                                                                     |
| • at DC                                                                                                      | 8,5 g / 5 ms, 4,2 g / 10 ms                                                                                                                                                                                                                         |
| shock resistance with sine pulse                                                                             |                                                                                                                                                                                                                                                     |
| • at DC                                                                                                      | 13,4 g / 5 ms, 6,5 g / 10 ms                                                                                                                                                                                                                        |
| mechanical service life (operating cycles)                                                                   |                                                                                                                                                                                                                                                     |
| • of contactor typical                                                                                       | 10 000 000                                                                                                                                                                                                                                          |
| • of the contactor with added electronically optimized auxiliary switch block typical                        | 5 000 000                                                                                                                                                                                                                                           |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000                                                                                                                                                                                                                                          |
| reference code according to IEC 81346-2                                                                      | Q                                                                                                                                                                                                                                                   |
| Substance Prohibitance (day/month/year)                                                                      | 09/06/2016                                                                                                                                                                                                                                          |
| SVHC substance name                                                                                          | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| Net Weight                                                                                                   | 6.544 kg                                                                                                                                                                                                                                            |

| Ambient conditions                                                     |                     |
|------------------------------------------------------------------------|---------------------|
| installation altitude at height above sea level maximum                | 2 000 m             |
| <b>ambient temperature</b>                                             |                     |
| • during operation                                                     | -40 ... +70 °C      |
| • during storage                                                       | -55 ... +80 °C      |
| <b>relative humidity minimum</b>                                       | 10 %                |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>  | 95 %                |
| Main circuit                                                           |                     |
| <b>number of poles for main current circuit</b>                        | 3                   |
| <b>number of NO contacts for main contacts</b>                         | 3                   |
| <b>number of NC contacts for main contacts</b>                         | 0                   |
| <b>operating voltage</b>                                               |                     |
| • at AC-3 rated value maximum                                          | 1 000 V             |
| • at AC-3e rated value maximum                                         | 1 000 V             |
| <b>operational current</b>                                             |                     |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 330 A               |
| • at AC-1                                                              |                     |
| — up to 690 V at ambient temperature 40 °C rated value                 | 330 A               |
| — up to 690 V at ambient temperature 60 °C rated value                 | 300 A               |
| — up to 1000 V at ambient temperature 60 °C rated value                | 150 A               |
| • at AC-2 at 400 V rated value                                         | 265 A               |
| • at AC-3                                                              |                     |
| — at 400 V rated value                                                 | 265 A               |
| — at 500 V rated value                                                 | 265 A               |
| — at 690 V rated value                                                 | 265 A               |
| — at 1000 V rated value                                                | 95 A                |
| • at AC-3e                                                             |                     |
| — at 400 V rated value                                                 | 265 A               |
| — at 500 V rated value                                                 | 265 A               |
| — at 1000 V rated value                                                | 95 A                |
| • at AC-4 at 400 V rated value                                         | 230 A               |
| <b>minimum cross-section in main circuit</b>                           |                     |
| • at maximum AC-1 rated value                                          | 185 mm <sup>2</sup> |
| • at maximum I <sub>th</sub> rated value                               | 185 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                     |
| • at 400 V rated value                                                 | 117 A               |
| • at 690 V rated value                                                 | 105 A               |
| <b>operational current</b>                                             |                     |
| • at 1 current path at DC-1                                            |                     |
| — at 24 V rated value                                                  | 300 A               |
| — at 110 V rated value                                                 | 33 A                |
| — at 220 V rated value                                                 | 3.8 A               |
| — at 440 V rated value                                                 | 0.9 A               |
| — at 600 V rated value                                                 | 0.6 A               |
| • with 2 current paths in series at DC-1                               |                     |
| — at 24 V rated value                                                  | 300 A               |
| — at 110 V rated value                                                 | 300 A               |
| — at 220 V rated value                                                 | 300 A               |
| — at 440 V rated value                                                 | 4 A                 |
| — at 600 V rated value                                                 | 2 A                 |
| • with 3 current paths in series at DC-1                               |                     |
| — at 24 V rated value                                                  | 300 A               |
| — at 110 V rated value                                                 | 300 A               |
| — at 220 V rated value                                                 | 300 A               |
| — at 440 V rated value                                                 | 11 A                |

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| <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5.2 A                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>● <b>with 2 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>● <b>with 3 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 300 A<br>3 A<br>0.6 A<br>0.18 A<br>0.125 A<br><br>300 A<br>300 A<br>2.5 A<br>0.65 A<br>0.37 A<br><br>300 A<br>300 A<br>300 A<br>1.4 A<br>0.75 A                                                                                                                                                                         |
| <b>operating power</b> <ul style="list-style-type: none"> <li>● at AC-2 at 400 V rated value</li> <li>● at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> </ul> </li> <li>● at AC-3e <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                      | 132 kW<br><br>85 kW<br>132 kW<br>160 kW<br>250 kW<br>132 kW<br><br>85 kW<br>132 kW<br>160 kW<br>132 kW                                                                                                                                                                                                                  |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> <ul style="list-style-type: none"> <li>● at 400 V rated value</li> <li>● at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 66 kW<br>102 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>                                                                                                                                                                                                                                                                                                                                                                                                                           | 4 880 A; Use minimum cross-section acc. to AC-1 rated value<br>4 045 A; Use minimum cross-section acc. to AC-1 rated value<br>2 785 A; Use minimum cross-section acc. to AC-1 rated value<br>1 664 A; Use minimum cross-section acc. to AC-1 rated value<br>1 276 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 DC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 700 1/h                                                                                                                                                                                                                                                                                                                 |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>● at AC-1 maximum</li> <li>● at AC-2 maximum</li> <li>● at AC-3 maximum</li> <li>● at AC-3e <ul style="list-style-type: none"> <li>— maximum</li> </ul> </li> <li>● at AC-2 at AC-3e maximum</li> <li>● at AC-4 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 700 1/h<br>250 1/h<br>500 1/h<br><br>500 1/h<br>250 1/h<br>130 1/h                                                                                                                                                                                                                                                      |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>● at DC-1 maximum</li> <li>● at DC-3 maximum</li> <li>● at DC-5 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 350 1/h<br>350 1/h<br>350 1/h                                                                                                                                                                                                                                                                                           |
| <b>Ratings for railway applications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                         |
| <b>thermal current (I<sub>th</sub>) up to 690 V</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                         |

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| <ul style="list-style-type: none"> <li>• up to 40 °C according to IEC 60077 rated value</li> <li>• up to 70 °C according to IEC 60077 rated value</li> </ul>                                                                                                          | 330 A<br>265 A                                      |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                       |                                                     |
| <b>type of voltage</b>                                                                                                                                                                                                                                                | DC                                                  |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                  | DC                                                  |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                       | 24 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>                                                                                                                                                                         | 0.7<br>1.25                                         |
| <b>consumed current at PLC-control input according to IEC 60947-1 maximum</b>                                                                                                                                                                                         | 2 mA                                                |
| <b>voltage at PLC-control input</b>                                                                                                                                                                                                                                   | 24 ... 110 V                                        |
| <b>design of the surge suppressor</b>                                                                                                                                                                                                                                 | with varistor                                       |
| <b>closing power of magnet coil at DC</b>                                                                                                                                                                                                                             | 580 W                                               |
| <b>holding power of magnet coil at DC</b>                                                                                                                                                                                                                             | 3.4 W                                               |
| <b>closing delay</b>                                                                                                                                                                                                                                                  |                                                     |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                                                                                             | 45 ... 80 ms                                        |
| <b>opening delay</b>                                                                                                                                                                                                                                                  |                                                     |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                                                                                             | 80 ... 100 ms                                       |
| <b>arcing time</b>                                                                                                                                                                                                                                                    | 10 ... 15 ms                                        |
| <b>control version of the switch operating mechanism</b>                                                                                                                                                                                                              | PLC-IN or Standard A1 - A2 (adjustable)             |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                              |                                                     |
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                                                                                   | 2                                                   |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                                                                                                                                                             | 2                                                   |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                   | 2                                                   |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                                                                                                                                                             | 2                                                   |
| <b>operational current at AC-12 maximum</b>                                                                                                                                                                                                                           | 10 A                                                |
| <b>operational current at AC-15</b>                                                                                                                                                                                                                                   |                                                     |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> </ul>                                                                                                                              | 6 A<br>3 A<br>2 A                                   |
| <b>operational current at DC-12</b>                                                                                                                                                                                                                                   |                                                     |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A   |
| <b>operational current at DC-13</b>                                                                                                                                                                                                                                   |                                                     |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 6 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                 |                                                     |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                                                                                                   |                                                     |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                              | 240 A<br>242 A                                      |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                            |                                                     |
| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>    | 75 hp<br>100 hp<br>200 hp<br>250 hp                 |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                           | A600 / Q600                                         |

| Short-circuit protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V                                                                                                                                                                                                                                                                                                                                                                                                               | C characteristic: 10 A; 0.4 kA                                                                                                         |
| <b>design of the fuse link</b> <ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                          | gG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back               |
| fastening method side-by-side mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                    |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | screw fixing                                                                                                                           |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 210 mm                                                                                                                                 |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 145 mm                                                                                                                                 |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 202 mm                                                                                                                                 |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>with side-by-side mounting <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul> | 20 mm<br>10 mm<br>10 mm<br>10 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm<br><br>20 mm<br>10 mm<br>10 mm<br>10 mm                       |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                              | screw-type terminals<br>spring-loaded terminals                                                                                        |
| <b>width of connection bar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25 mm                                                                                                                                  |
| <b>thickness of connection bar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 mm                                                                                                                                   |
| <b>diameter of holes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11 mm                                                                                                                                  |
| <b>number of holes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                                                                                                      |
| <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> </ul> </li> <li>for AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                                                                                  | 2x (70 ... 240 mm²)<br>2/0 ... 500 kcmil                                                                                               |
| <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> <li>finely stranded without core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>                                                                                                                                                  | 2x (0.25 ... 2.5 mm²)<br>2x (0.25 ... 2.5 mm²)<br>2x (0.25 ... 1.5 mm²)<br>2x (0.25 ... 2.5 mm²)<br>2x (24 ... 14)                     |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24 ... 14                                                                                                                              |
| Safety related data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                        |
| <b>product function</b> <ul style="list-style-type: none"> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul>                                                                                                                                                                                                                                                                                               | Yes<br>No<br>Yes                                                                                                                       |
| suitability for use safety-related switching OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes; safety-related disconnection via A1 A2                                                                                            |

|                                                                                                                                                                                        |                                                                          |
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| service life maximum                                                                                                                                                                   | 20 a                                                                     |
| test wear-related service life necessary                                                                                                                                               | Yes                                                                      |
| proportion of dangerous failures <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul> | 40 %<br>73 %                                                             |
| B10 value with high demand rate according to SN 31920                                                                                                                                  | 1 000 000                                                                |
| failure rate [FIT] with low demand rate according to SN 31920                                                                                                                          | 100 FIT                                                                  |
| ISO 13849                                                                                                                                                                              |                                                                          |
| device type according to ISO 13849-1                                                                                                                                                   | 3                                                                        |
| overdimensioning according to ISO 13849-2 necessary                                                                                                                                    | Yes                                                                      |
| IEC 61508                                                                                                                                                                              |                                                                          |
| safety device type according to IEC 61508-2                                                                                                                                            | Type A                                                                   |
| Electrical Safety                                                                                                                                                                      |                                                                          |
| protection class IP on the front according to IEC 60529                                                                                                                                | IP00; IP20 with box terminal/cover                                       |
| touch protection on the front according to IEC 60529                                                                                                                                   | finger-safe, for vertical contact from the front with box terminal/cover |
| Communication/ Protocol                                                                                                                                                                |                                                                          |
| product function bus communication                                                                                                                                                     | No                                                                       |
| Approvals Certificates                                                                                                                                                                 |                                                                          |
| Environment                                                                                                                                                                            | General Product Approval                                                 |

[Environmental Con-  
firmations](#)



| General Product Approval                                                            | EMV                                                                                 | Functional Safety                                                                   | Test Certificates                            |                                          |                                                    |
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|  |  |  | <a href="#">Type Examination Certificate</a> | <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> |

| other                         | Railway                       |                              |                                                                                     |                               |                                          |
|-------------------------------|-------------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|
| <a href="#">Miscellaneous</a> | <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> |  | <a href="#">Miscellaneous</a> | <a href="#">Special Test Certificate</a> |

| Railway                                            |
|----------------------------------------------------|
| <a href="#">Type Test Certificates/Test Report</a> |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>Information on the packaging<br/> <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information for data generation and storage<br/> <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/> <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a></p> <p>Industry Mall (Online ordering system)<br/> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1065-2XB46-0LA2">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1065-2XB46-0LA2</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)<br/> <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2XB46-0LA2">https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2XB46-0LA2</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)<br/> <a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2XB46-0LA2&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2XB46-0LA2&amp;lang=en</a></p> <p>Cax online generator<br/> <a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RT1065-2XB46-0LA2">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RT1065-2XB46-0LA2</a></p> <p>Characteristic curves</p> |



