



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC U<sub>c</sub>: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: spring-loaded terminal

|                                                                                                              |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| product brand name                                                                                           | SIRIUS                                                                                                |
| product designation                                                                                          | Power contactor                                                                                       |
| 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                                                                               | 51 W                                                                                                  |
| • at AC in hot operating state per pole                                                                      | 17 W                                                                                                  |
| • without load current share typical                                                                         | 7.4 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 at rectangular impulse                                                                      |                                                                                                       |
| • at AC                                                                                                      | 8,5 g / 5 ms, 4,2 g / 10 ms                                                                           |
| • at DC                                                                                                      | 8,5 g / 5 ms, 4,2 g / 10 ms                                                                           |
| shock resistance with sine pulse                                                                             |                                                                                                       |
| • at AC                                                                                                      | 13,4 g / 5 ms, 6,5 g / 10 ms                                                                          |
| • 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)                                                                      | 05/01/2012                                                                                            |
| SVHC substance name                                                                                          | Lead CAS-No. 7439-92-1<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 |

|                                                                        |                           |
|------------------------------------------------------------------------|---------------------------|
|                                                                        | Melamine CAS-No. 108-78-1 |
| <b>Net Weight</b>                                                      | 6.56 kg                   |
| <b>Ambient conditions</b>                                              |                           |
| installation altitude at height above sea level maximum                | 2 000 m                   |
| <b>ambient temperature</b>                                             |                           |
| • during operation                                                     | -25 ... +60 °C            |
| • during storage                                                       | -55 ... +80 °C            |
| <b>relative humidity minimum</b>                                       | 10 %                      |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>  | 95 %                      |
| <b>Main circuit</b>                                                    |                           |
| <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            | 275 A                     |
| • at AC-1                                                              |                           |
| — up to 690 V at ambient temperature 40 °C rated value                 | 275 A                     |
| — up to 690 V at ambient temperature 60 °C rated value                 | 250 A                     |
| — up to 1000 V at ambient temperature 40 °C rated value                | 100 A                     |
| — up to 1000 V at ambient temperature 60 °C rated value                | 100 A                     |
| • at AC-3                                                              |                           |
| — at 400 V rated value                                                 | 225 A                     |
| — at 500 V rated value                                                 | 225 A                     |
| — at 690 V rated value                                                 | 225 A                     |
| — at 1000 V rated value                                                | 68 A                      |
| • at AC-3e                                                             |                           |
| — at 400 V rated value                                                 | 225 A                     |
| — at 500 V rated value                                                 | 225 A                     |
| — at 690 V rated value                                                 | 225 A                     |
| — at 1000 V rated value                                                | 68 A                      |
| • at AC-4 at 400 V rated value                                         | 195 A                     |
| • at AC-5a up to 690 V rated value                                     | 242 A                     |
| • at AC-5b up to 400 V rated value                                     | 186 A                     |
| • at AC-6a                                                             |                           |
| — up to 230 V for current peak value n=20 rated value                  | 225 A                     |
| — up to 400 V for current peak value n=20 rated value                  | 225 A                     |
| — up to 500 V for current peak value n=20 rated value                  | 225 A                     |
| — up to 690 V for current peak value n=20 rated value                  | 225 A                     |
| — up to 1000 V for current peak value n=20 rated value                 | 68 A                      |
| • at AC-6a                                                             |                           |
| — up to 230 V for current peak value n=30 rated value                  | 172 A                     |
| — up to 400 V for current peak value n=30 rated value                  | 172 A                     |
| — up to 500 V for current peak value n=30 rated value                  | 172 A                     |
| — up to 690 V for current peak value n=30 rated value                  | 172 A                     |
| — up to 1000 V for current peak value n=30 rated value                 | 68 A                      |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 150 mm <sup>2</sup>       |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                           |
| • at 400 V rated value                                                 | 96 A                      |
| • at 690 V rated value                                                 | 85 A                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                             |
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| <b>operational current</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>● <b>with 2 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>● <b>with 3 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <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 60 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 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <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 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 200 A<br>200 A<br>18 A<br>3.4 A<br>0.8 A<br>0.5 A<br><br>200 A<br>200 A<br>200 A<br>20 A<br>3.2 A<br>1.6 A<br><br>200 A<br>200 A<br>200 A<br>200 A<br>11 A<br>4 A<br><br>200 A<br>7.5 A<br>0.6 A<br>0.17 A<br>0.12 A<br><br>200 A<br>200 A<br>200 A<br>2.5 A<br>0.65 A<br>0.37 A<br><br>200 A<br>200 A<br>200 A<br>200 A<br>1.4 A<br>0.75 A |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>● <b>at AC-3</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> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> </ul> </li> <li>● <b>at AC-3e</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> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 55 kW<br>110 kW<br>160 kW<br>200 kW<br>90 kW<br><br>55 kW<br>110 kW<br>160 kW<br>200 kW<br>90 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54 kW<br>82 kW                                                                                                                                                                                                                                                                                                                              |

|                                                                                       |                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>operating apparent power at AC-6a</b>                                              |                                                             |
| • up to 230 V for current peak value n=20 rated value                                 | 90 kVA                                                      |
| • up to 400 V for current peak value n=20 rated value                                 | 150 kVA                                                     |
| • up to 500 V for current peak value n=20 rated value                                 | 190 kVA                                                     |
| • up to 690 V for current peak value n=20 rated value                                 | 260 kVA                                                     |
| • up to 1000 V for current peak value n=20 rated value                                | 110 kVA                                                     |
| <b>operating apparent power at AC-6a</b>                                              |                                                             |
| • up to 230 V for current peak value n=30 rated value                                 | 60 kVA                                                      |
| • up to 400 V for current peak value n=30 rated value                                 | 110 kVA                                                     |
| • up to 500 V for current peak value n=30 rated value                                 | 140 kVA                                                     |
| • up to 690 V for current peak value n=30 rated value                                 | 200 kVA                                                     |
| • up to 1000 V for current peak value n=30 rated value                                | 110 kVA                                                     |
| <b>short-time withstand current in cold operating state up to 40 °C</b>               |                                                             |
| • limited to 1 s switching at zero current maximum                                    | 4 000 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 5 s switching at zero current maximum                                    | 2 807 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 10 s switching at zero current maximum                                   | 2 082 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 30 s switching at zero current maximum                                   | 1 397 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 60 s switching at zero current maximum                                   | 1 144 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                    |                                                             |
| • at AC                                                                               | 2 000 1/h                                                   |
| • at DC                                                                               | 2 000 1/h                                                   |
| <b>operating frequency</b>                                                            |                                                             |
| • at AC-1 maximum                                                                     | 750 1/h                                                     |
| • at AC-2 maximum                                                                     | 250 1/h                                                     |
| • at AC-3 maximum                                                                     | 500 1/h                                                     |
| • at AC-3e<br>— maximum                                                               | 500 1/h                                                     |
| • at AC-4 maximum                                                                     | 130 1/h                                                     |
| <b>Control circuit/ Control</b>                                                       |                                                             |
| <b>type of voltage of the control supply voltage</b>                                  | AC/DC                                                       |
| <b>control supply voltage at AC</b>                                                   |                                                             |
| • at 50 Hz rated value                                                                | 23 ... 26 V                                                 |
| • at 60 Hz rated value                                                                | 23 ... 26 V                                                 |
| <b>control supply voltage at DC rated value</b>                                       | 23 ... 26 V                                                 |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> |                                                             |
| • initial value                                                                       | 0.8                                                         |
| • full-scale value                                                                    | 1.1                                                         |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                                                             |
| • at 50 Hz                                                                            | 0.8 ... 1.1                                                 |
| • at 60 Hz                                                                            | 0.8 ... 1.1                                                 |
| <b>design of the surge suppressor</b>                                                 | with varistor                                               |
| <b>apparent pick-up power</b>                                                         |                                                             |
| • at minimum rated control supply voltage at AC<br>— at 50 Hz                         | 490 VA                                                      |
| — at 60 Hz                                                                            | 490 VA                                                      |
| • at maximum rated control supply voltage at AC<br>— at 60 Hz                         | 590 VA                                                      |
| — at 50 Hz                                                                            | 590 VA                                                      |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                                                             |
| • at 50 Hz                                                                            | 590 VA                                                      |
| • at 60 Hz                                                                            | 590 VA                                                      |
| <b>inductive power factor with closing power of the coil</b>                          |                                                             |
| • at 50 Hz                                                                            | 0.9                                                         |
| • at 60 Hz                                                                            | 0.9                                                         |
| <b>apparent holding power</b>                                                         |                                                             |
| • at minimum rated control supply voltage at DC                                       | 6.1 VA                                                      |
| • at maximum rated control supply voltage at DC                                       | 7.4 VA                                                      |

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| <b>apparent holding power</b>                                      |                                                 |
| • at minimum rated control supply voltage at AC                    |                                                 |
| — at 50 Hz                                                         | 5.6 VA                                          |
| — at 60 Hz                                                         | 5.6 VA                                          |
| • at maximum rated control supply voltage at AC                    |                                                 |
| — at 50 Hz                                                         | 6.7 VA                                          |
| — at 60 Hz                                                         | 6.7 VA                                          |
| <b>inductive power factor with the holding power of the coil</b>   |                                                 |
| • at 50 Hz                                                         | 0.9                                             |
| • at 60 Hz                                                         | 0.9                                             |
| <b>closing power of magnet coil at DC</b>                          | 650 W                                           |
| <b>holding power of magnet coil at DC</b>                          | 7.4 W                                           |
| <b>closing delay</b>                                               |                                                 |
| • at AC                                                            | 30 ... 95 ms                                    |
| • at DC                                                            | 30 ... 95 ms                                    |
| <b>opening delay</b>                                               |                                                 |
| • at AC                                                            | 40 ... 80 ms                                    |
| • at DC                                                            | 40 ... 80 ms                                    |
| <b>arcing time</b>                                                 | 10 ... 15 ms                                    |
| <b>control version of the switch operating mechanism</b>           | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>                                           |                                                 |
| number of NC contacts for auxiliary contacts instantaneous contact | 2                                               |
| number of NO contacts for auxiliary contacts instantaneous contact | 2                                               |
| operational current at AC-12 maximum                               | 10 A                                            |
| <b>operational current at AC-15</b>                                |                                                 |
| • at 230 V rated value                                             | 6 A                                             |
| • at 400 V rated value                                             | 3 A                                             |
| • at 500 V rated value                                             | 2 A                                             |
| • at 690 V rated value                                             | 1 A                                             |
| <b>operational current at DC-12</b>                                |                                                 |
| • at 24 V rated value                                              | 10 A                                            |
| • at 48 V rated value                                              | 6 A                                             |
| • at 60 V rated value                                              | 6 A                                             |
| • at 110 V rated value                                             | 3 A                                             |
| • at 125 V rated value                                             | 2 A                                             |
| • at 220 V rated value                                             | 1 A                                             |
| • at 600 V rated value                                             | 0.15 A                                          |
| <b>operational current at DC-13</b>                                |                                                 |
| • at 24 V rated value                                              | 10 A                                            |
| • at 48 V rated value                                              | 2 A                                             |
| • at 60 V rated value                                              | 2 A                                             |
| • at 110 V rated value                                             | 1 A                                             |
| • at 125 V rated value                                             | 0.9 A                                           |
| • at 220 V rated value                                             | 0.3 A                                           |
| • at 600 V rated value                                             | 0.1 A                                           |
| <b>contact reliability of auxiliary contacts</b>                   | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>UL/CSA ratings</b>                                              |                                                 |
| <b>full-load current (FLA) for 3-phase AC motor</b>                |                                                 |
| • at 480 V rated value                                             | 180 A                                           |
| • at 600 V rated value                                             | 192 A                                           |
| <b>yielded mechanical performance [hp]</b>                         |                                                 |
| • for 3-phase AC motor                                             |                                                 |
| — at 200/208 V rated value                                         | 60 hp                                           |
| — at 220/230 V rated value                                         | 75 hp                                           |
| — at 460/480 V rated value                                         | 150 hp                                          |
| — at 575/600 V rated value                                         | 200 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>0 mm<br>20 mm<br>10 mm<br>10 mm<br>10 mm<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> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>                                                                                                                                                                                                                                                                                         | Connection bar<br>spring-loaded terminals<br>Spring-type terminals<br>Spring-loaded terminal                                           |
| <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 AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  | 2/0 ... 500 kcmil                                                                                                                      |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>stranded</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                 | 70 ... 240 mm²                                                                                                                         |
| <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> <li>finely stranded without core end processing</li> </ul>                                                                                                                                                                                                                                                                            | 0.25 ... 2.5 mm²<br>0.25 ... 1.5 mm²<br>0.25 ... 2.5 mm²                                                                               |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>solid</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>                                              |                                                                          |
| • mirror contact according to IEC 60947-4-1                          | Yes                                                                      |
| • positively driven operation according to IEC 60947-5-1             | No                                                                       |
| • suitable for safety function                                       | Yes                                                                      |
| suitability for use safety-related switching OFF                     | Yes                                                                      |
| <b>service life maximum</b>                                          | 20 a                                                                     |
| <b>test wear-related service life necessary</b>                      | Yes                                                                      |
| <b>proportion of dangerous failures</b>                              |                                                                          |
| • with low demand rate according to SN 31920                         | 40 %                                                                     |
| • with high demand rate according to SN 31920                        | 73 %                                                                     |
| <b>B10 value with high demand rate according to SN 31920</b>         | 1 000 000                                                                |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 100 FIT                                                                  |
| <b>ISO 13849</b>                                                     |                                                                          |
| <b>device type according to ISO 13849-1</b>                          | 3                                                                        |
| <b>overdimensioning according to ISO 13849-2 necessary</b>           | Yes                                                                      |
| <b>IEC 61508</b>                                                     |                                                                          |
| <b>safety device type according to IEC 61508-2</b>                   | Type A                                                                   |
| <b>Electrical Safety</b>                                             |                                                                          |
| <b>protection class IP on the front according to IEC 60529</b>       | IP00; IP20 with box terminal/cover                                       |
| <b>touch protection on the front according to IEC 60529</b>          | finger-safe, for vertical contact from the front with box terminal/cover |

## Approvals Certificates

|                                                            |                                 |
|------------------------------------------------------------|---------------------------------|
| <b>Environmental Product Declaration</b>                   |                                 |
| • global warming potential [CO2 eq] / during manufacturing | 31.5 kg                         |
| • global warming potential [CO2 eq] / during sales         | 2.6 kg                          |
| • global warming potential [CO2 eq] / during operation     | 521 kg                          |
| • global warming potential [CO2 eq] / after end of life    | -7.22 kg                        |
| • global warming potential [CO2 eq] / total                | 548 kg                          |
| <b>Environment</b>                                         | <b>General Product Approval</b> |

[Environmental Confirmations](#)



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## General Product Approval

## EMV

## Functional Safety



EG-Konf.



[Type Examination Certificate](#)

## Test Certificates

## Maritime application

## other

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

[Miscellaneous](#)

## other

## Railway

[Confirmation](#)

[Confirmation](#)

[Miscellaneous](#)



[Special Test Certificate](#)

## Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RT1064-2AB36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2AB36>

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

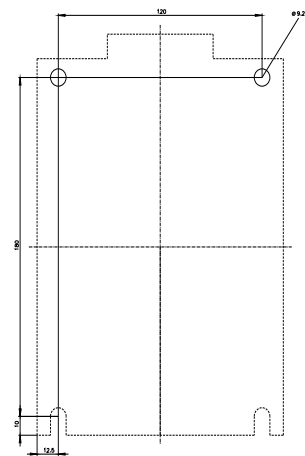
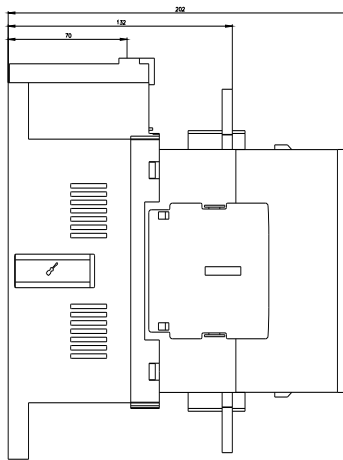
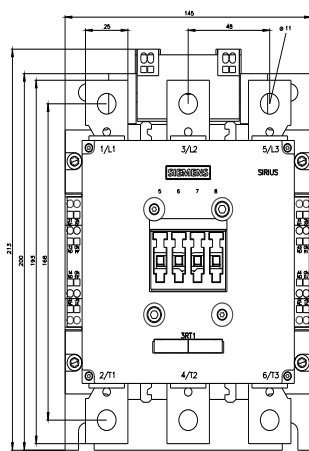
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1064-2AB36&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-2AB36&lang=en)

Cax online generator

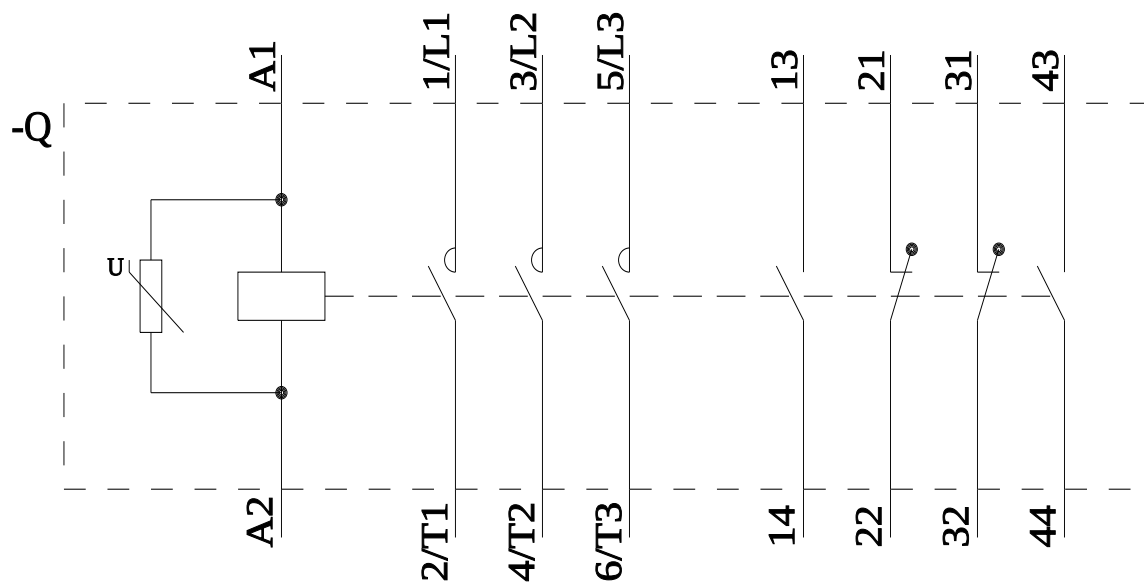
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2AB36>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)







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