

power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: conventional main circuit: busbar control and auxiliary circuit: screw 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       |
| Net Weight                                                                                                   | 6.467 kg                     |
| <b>Ambient conditions</b>                                                                                    |                              |
| installation altitude at height above sea level maximum                                                      | 2 000 m                      |
| ambient temperature                                                                                          |                              |
| • during operation                                                                                           | -25 ... +60 °C               |
| • during storage                                                                                             | -55 ... +80 °C               |
| relative humidity minimum                                                                                    | 10 %                         |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                                               | 95 %                         |
| <b>Main circuit</b>                                                                                          |                              |
| number of poles for main current circuit                                                                     | 3                            |
| number of NO contacts for main contacts                                                                      | 3                            |
| number of NC contacts for main contacts                                                                      | 0                            |
| operating voltage                                                                                            |                              |

|                                                                                                                                                                       |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>                                                                                       | 1 000 V             |
| <ul style="list-style-type: none"> <li>• at AC-3e rated value maximum</li> </ul>                                                                                      | 1 000 V             |
| <b>operational current</b>                                                                                                                                            |                     |
| <ul style="list-style-type: none"> <li>• at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>                                                         | 275 A               |
| <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul> | 275 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>          | 250 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 1000 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul>         | 100 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>         | 100 A               |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                                 | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul> </li> </ul>                                          | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul> </li> </ul>                                          | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                         | 68 A                |
| <ul style="list-style-type: none"> <li>• at AC-3e <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                                | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 500 V rated value</li> </ul> </li> </ul>                                          | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul> </li> </ul>                                          | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 1000 V rated value</li> </ul> </li> </ul>                                         | 68 A                |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                      | 195 A               |
| <ul style="list-style-type: none"> <li>• at AC-5a up to 690 V rated value</li> </ul>                                                                                  | 242 A               |
| <ul style="list-style-type: none"> <li>• at AC-5b up to 400 V rated value</li> </ul>                                                                                  | 186 A               |
| <ul style="list-style-type: none"> <li>• at AC-6a <ul style="list-style-type: none"> <li>— up to 230 V for current peak value n=20 rated value</li> </ul> </li> </ul> | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=20 rated value</li> </ul> </li> </ul>           | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=20 rated value</li> </ul> </li> </ul>           | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=20 rated value</li> </ul> </li> </ul>           | 225 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 1000 V for current peak value n=20 rated value</li> </ul> </li> </ul>          | 68 A                |
| <ul style="list-style-type: none"> <li>• at AC-6a <ul style="list-style-type: none"> <li>— up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul> | 172 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 400 V for current peak value n=30 rated value</li> </ul> </li> </ul>           | 172 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 500 V for current peak value n=30 rated value</li> </ul> </li> </ul>           | 172 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 690 V for current peak value n=30 rated value</li> </ul> </li> </ul>           | 172 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— up to 1000 V for current peak value n=30 rated value</li> </ul> </li> </ul>          | 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>                                                                                                |                     |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                              | 96 A                |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                              | 85 A                |
| <b>operational current</b>                                                                                                                                            |                     |
| <ul style="list-style-type: none"> <li>• at 1 current path at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>                | 200 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul> </li> </ul>                                           | 200 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul> </li> </ul>                                          | 18 A                |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul> </li> </ul>                                          | 3.4 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul> </li> </ul>                                          | 0.8 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul> </li> </ul>                                          | 0.5 A               |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>   | 200 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 60 V rated value</li> </ul> </li> </ul>                                           | 200 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul> </li> </ul>                                          | 200 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 220 V rated value</li> </ul> </li> </ul>                                          | 20 A                |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 440 V rated value</li> </ul> </li> </ul>                                          | 3.2 A               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 600 V rated value</li> </ul> </li> </ul>                                          | 1.6 A               |

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| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11 A    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 A     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.5 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.6 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.17 A  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.12 A  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.5 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.65 A  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.37 A  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.4 A   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.75 A  |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| • at AC-2 at 400 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110 kW  |
| • at AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| — at 230 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55 kW   |
| — at 400 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 110 kW  |
| — at 500 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160 kW  |
| — at 690 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200 kW  |
| — at 1000 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90 kW   |
| • at AC-3e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| — at 230 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55 kW   |
| — at 400 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 110 kW  |
| — at 500 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160 kW  |
| — at 690 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200 kW  |
| — at 1000 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90 kW   |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| • at 400 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 54 kW   |
| • at 690 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> | 4 000 A; Use minimum cross-section acc. to AC-1 rated value<br>2 807 A; Use minimum cross-section acc. to AC-1 rated value<br>2 082 A; Use minimum cross-section acc. to AC-1 rated value<br>1 397 A; Use minimum cross-section acc. to AC-1 rated value<br>1 144 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                              | 2 000 1/h<br>2 000 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</li> <li>— maximum</li> <li>• at AC-4 maximum</li> </ul>                                                                                                                                                             | 750 1/h<br>250 1/h<br>500 1/h<br><br>500 1/h<br>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>                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                | 23 ... 26 V<br>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>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>                                                                                                                                                                                                                                                           | 0.8<br>1.1                                                                                                                                                                                                                                                                                                              |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                        | 0.8 ... 1.1<br>0.8 ... 1.1                                                                                                                                                                                                                                                                                              |
| <b>design of the surge suppressor</b>                                                                                                                                                                                                                                                                                                                   | with varistor                                                                                                                                                                                                                                                                                                           |
| <b>apparent pick-up power</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> <li>• at maximum rated control supply voltage at AC</li> <li>— at 60 Hz</li> <li>— at 50 Hz</li> </ul>                                                                                                              | 490 VA<br>490 VA<br><br>590 VA<br>590 VA                                                                                                                                                                                                                                                                                |
| <b>apparent pick-up power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                        | 590 VA<br>590 VA                                                                                                                                                                                                                                                                                                        |
| <b>inductive power factor with closing power of the coil</b>                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                        | 0.9<br>0.9                                                                                                                                                                                                                                                                                                              |
| <b>apparent holding power</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at DC</li> <li>• at maximum rated control supply voltage at DC</li> </ul>                                                                                                                                                                                              | 6.1 VA<br>7.4 VA                                                                                                                                                                                                                                                                                                        |
| <b>apparent holding power</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at minimum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> <li>• at maximum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul>                                                                                                              | 5.6 VA<br>5.6 VA<br><br>6.7 VA<br>6.7 VA                                                                                                                                                                                                                                                                                |
| <b>inductive power factor with the holding power of the coil</b>                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                        | 0.9<br>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>                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                         |

|                                                                                                                                                                                                                                                                                                                         |                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                                                                              | 30 ... 95 ms<br>30 ... 95 ms                                                                                                           |
| <b>opening delay</b>                                                                                                                                                                                                                                                                                                    |                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                                                                                              | 40 ... 80 ms<br>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>                                                                                                                                                                                                                                                                                                |                                                                                                                                        |
| <b>design of the auxiliary switch</b>                                                                                                                                                                                                                                                                                   | lateral, permanently connected                                                                                                         |
| 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>                                                                                                                                                                                                                                                                                     |                                                                                                                                        |
| <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> </ul>                                                                                                                                                | 6 A<br>3 A<br>2 A<br>1 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>                                                   | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>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>                                                                                                                                                                                                                                                                     |                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                | 180 A<br>192 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>                                                      | 60 hp<br>75 hp<br>150 hp<br>200 hp                                                                                                     |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                             | A600 / Q600                                                                                                                            |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                         |                                                                                                                                        |
| 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) |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| <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>                                                               |                                                                                                              |
| • with side-by-side mounting                                                          |                                                                                                              |
| — forwards                                                                            | 20 mm                                                                                                        |
| — upwards                                                                             | 10 mm                                                                                                        |
| — downwards                                                                           | 10 mm                                                                                                        |
| — at the side                                                                         | 0 mm                                                                                                         |
| • for grounded parts                                                                  |                                                                                                              |
| — forwards                                                                            | 20 mm                                                                                                        |
| — upwards                                                                             | 10 mm                                                                                                        |
| — at the side                                                                         | 10 mm                                                                                                        |
| — downwards                                                                           | 10 mm                                                                                                        |
| • for live parts                                                                      |                                                                                                              |
| — forwards                                                                            | 20 mm                                                                                                        |
| — upwards                                                                             | 10 mm                                                                                                        |
| — downwards                                                                           | 10 mm                                                                                                        |
| — at the side                                                                         | 10 mm                                                                                                        |
| <b>Connections/ Terminals</b>                                                         |                                                                                                              |
| <b>type of electrical connection</b>                                                  |                                                                                                              |
| • for main current circuit                                                            | Connection bar                                                                                               |
| • for auxiliary and control circuit                                                   | screw-type terminals                                                                                         |
| • at contactor for auxiliary contacts                                                 | Screw-type terminals                                                                                         |
| • of magnet coil                                                                      | Screw-type 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>                                   |                                                                                                              |
| • for AWG cables for main contacts                                                    | 2/0 ... 500 kcmil                                                                                            |
| <b>connectable conductor cross-section for main contacts</b>                          |                                                                                                              |
| • stranded                                                                            | 70 ... 240 mm <sup>2</sup>                                                                                   |
| <b>connectable conductor cross-section for auxiliary contacts</b>                     |                                                                                                              |
| • solid or stranded                                                                   | 0.5 ... 4 mm <sup>2</sup>                                                                                    |
| • finely stranded with core end processing                                            | 0.5 ... 2.5 mm <sup>2</sup>                                                                                  |
| <b>type of connectable conductor cross-sections</b>                                   |                                                                                                              |
| • for auxiliary contacts                                                              |                                                                                                              |
| — solid                                                                               | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> ) |
| — solid or stranded                                                                   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> ) |
| — finely stranded with core end processing                                            | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                        |
| • for AWG cables for auxiliary contacts                                               | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                        |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b> | 18 ... 14                                                                                                    |
| <b>Safety related data</b>                                                            |                                                                                                              |
| <b>product function</b>                                                               |                                                                                                              |
| • mirror contact according to IEC 60947-4-1                                           | Yes                                                                                                          |
| • positively driven operation according to IEC 60947-5-1                              | No                                                                                                           |
| • suitable for safety function                                                        | Yes                                                                                                          |
| <b>suitability for use safety-related switching OFF</b>                               | 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                                                                                                      |

|                                                         |                                                                          |
|---------------------------------------------------------|--------------------------------------------------------------------------|
| 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 |

#### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Conformations](#)



|                          |     |                   |                   |  |  |
|--------------------------|-----|-------------------|-------------------|--|--|
| General Product Approval | EMV | Functional Safety | Test Certificates |  |  |
|--------------------------|-----|-------------------|-------------------|--|--|



[Type Examination Certificate](#)

[Miscellaneous](#)

[Special Test Certificate](#)

|                   |                      |       |  |  |  |
|-------------------|----------------------|-------|--|--|--|
| Test Certificates | Maritime application | other |  |  |  |
|-------------------|----------------------|-------|--|--|--|

[Type Test Certificates/Test Report](#)



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|       |         |  |  |  |  |
|-------|---------|--|--|--|--|
| other | Railway |  |  |  |  |
|-------|---------|--|--|--|--|

[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=3RT1064-6AB36-3PA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AB36-3PA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1064-6AB36-3PA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6AB36-3PA0&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AB36-3PA0>

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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