## SIEMENS

## Data sheet

## 3RT2037-1AP00-1AA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

| P                                                                                                               | SIRIUS                      |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------|
| product designation                                                                                             |                             |
| p                                                                                                               | Power contactor             |
| product type designation                                                                                        | 3RT2                        |
| General technical data                                                                                          |                             |
| size of contactor                                                                                               | S2                          |
| product extension                                                                                               |                             |
| <ul> <li>function module for communication</li> </ul>                                                           | No                          |
| auxiliary switch                                                                                                | Yes                         |
| power loss [W] for rated value of the current                                                                   |                             |
| <ul> <li>at AC in hot operating state</li> </ul>                                                                | 11.4 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>                                                       | 3.8 W                       |
| <ul> <li>without load current share typical</li> </ul>                                                          | 6 W                         |
| insulation voltage                                                                                              |                             |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                      | 690 V                       |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                                 | 690 V                       |
| surge voltage resistance                                                                                        |                             |
| <ul> <li>of main circuit rated value</li> </ul>                                                                 | 6 kV                        |
| <ul> <li>of auxiliary circuit rated value</li> </ul>                                                            | 6 kV                        |
| maximum permissible voltage for protective separation between<br>coil and main contacts according to EN 60947-1 | 400 V                       |
| shock resistance at rectangular impulse                                                                         |                             |
| • at AC                                                                                                         | 11.8g / 5 ms, 7.4g / 10 ms  |
| shock resistance with sine pulse                                                                                |                             |
| ● at AC                                                                                                         | 18.5g / 5 ms, 11.6g / 10 ms |
| mechanical service life (operating cycles)                                                                      |                             |
| <ul> <li>of contactor typical</li> </ul>                                                                        | 10 000 000                  |
| of the contactor with added electronically optimized     auxiliary switch block typical                         | 5 000 000                   |
| <ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>                                  | 10 000 000                  |
| reference code according to IEC 81346-2                                                                         | Q                           |
| Substance Prohibitance (Date)                                                                                   | 10/01/2014                  |
| Ambient conditions                                                                                              |                             |
| 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 %                        |
| Main circuit                                                                                                    |                             |
| number of poles for main current circuit                                                                        | 3                           |

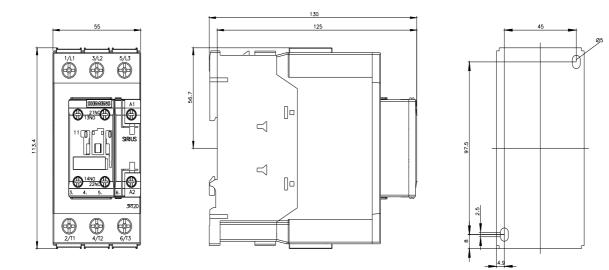
| number of NO contacts for main contacts                                   | 3                  |
|---------------------------------------------------------------------------|--------------------|
| operating voltage                                                         | 5                  |
| • at AC-3 rated value maximum                                             | 690 V              |
| at AC-3 rated value maximum     at AC-3e rated value maximum              | 690 V              |
| operational current                                                       |                    |
| at AC-1 at 400 V at ambient temperature 40 °C rated                       | 80 A               |
| value                                                                     |                    |
| • at AC-1                                                                 |                    |
| — up to 690 V at ambient temperature 40 °C rated                          | 80 A               |
| value                                                                     |                    |
| — up to 690 V at ambient temperature 60 °C rated value                    | 70 A               |
| • at AC-3                                                                 |                    |
| — at 400 V rated value                                                    | 65 A               |
| — at 500 V rated value                                                    | 65 A               |
| — at 690 V rated value                                                    | 47 A               |
| • at AC-3e                                                                |                    |
| — at 400 V rated value                                                    | 65 A               |
| — at 500 V rated value                                                    | 65 A               |
| — at 690 V rated value                                                    | 47 A               |
| at AC-4 at 400 V rated value                                              | 55 A               |
| • at AC-5a up to 690 V rated value                                        | 70.4 A             |
| • at AC-5b up to 400 V rated value                                        | 53.9 A             |
| ● at AC-6a                                                                |                    |
| — up to 230 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 400 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 500 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 690 V for current peak value n=20 rated value                     | 47 A               |
| ● at AC-6a                                                                |                    |
| <ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value         | 25 mm <sup>2</sup> |
| operational current for approx. 200000 operating cycles at AC-4           |                    |
| • at 400 V rated value                                                    | 28 A               |
| • at 690 V rated value                                                    | 22 A               |
| operational current                                                       |                    |
| <ul> <li>at 1 current path at DC-1</li> </ul>                             |                    |
| — at 24 V rated value                                                     | 55 A               |
| — at 60 V rated value                                                     | 23 A               |
| — at 110 V rated value                                                    | 4.5 A              |
| — at 220 V rated value                                                    | 1 A                |
| — at 440 V rated value                                                    | 0.4 A              |
| — at 600 V rated value                                                    | 0.25 A             |
| <ul> <li>with 2 current paths in series at DC-1</li> </ul>                |                    |
| — at 24 V rated value                                                     | 55 A               |
| — at 60 V rated value                                                     | 45 A               |
| — at 110 V rated value                                                    | 45 A               |
| — at 220 V rated value                                                    | 5 A                |
| — at 440 V rated value                                                    | 1 A                |
| — at 600 V rated value                                                    | 0.8 A              |
| with 3 current paths in series at DC-1                                    |                    |
| — at 24 V rated value                                                     | 55 A               |
| — at 60 V rated value                                                     | 55 A               |
| - at 110 V rated value                                                    | 55 A               |
| - at 220 V rated value                                                    | 45 A               |
| — at 440 V rated value                                                    | 2.9 A              |
| — at 600 V rated value                                                    | 1.4 A              |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>                     |                    |

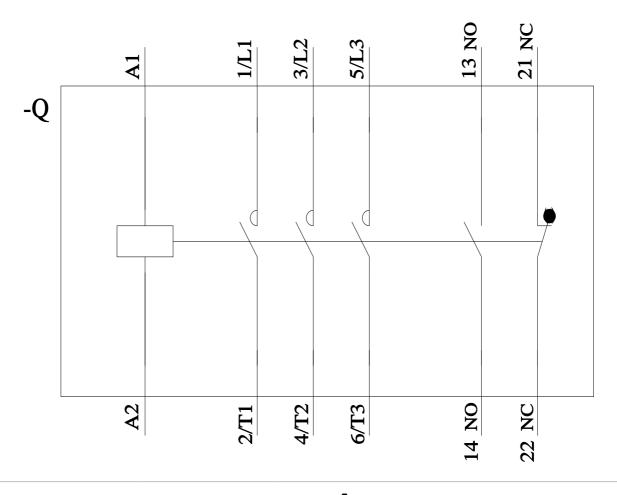
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 220 V rated value                                                  | 1 A                                                       |
| • win 2 current path in series at DC-3 at DC-5         5           - at 24 V rade value         55 Å           - at 110 V rade value         25 Å           - at 110 V rade value         5 Å           - at 440 V rade value         0.27 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.5 Å           - at 440 V rade value         55 Å           - at 440 V rade value         55 Å           - at 440 V rade value         0.38 Å           - at 440 V rade value         30 kW           - at 440 V rade value         30 kW           - at 420 V rade value         37 kW           - at 400 V rade value         37 kW <td>— at 440 V rated value</td> <td>0.1 A</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | — at 440 V rated value                                                  | 0.1 A                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 600 V rated value                                                  | 0.06 A                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>      |                                                           |
| - all 10 Vinited value<br>at 440 Vinited value<br>b 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 60 Vinited value<br>55 A<br>- at 24 Vinited value<br>55 A<br>- at 24 Vinited value<br>55 A<br>- at 70 Vinited value<br>56 A<br>- at 700 Vinited value<br>57 A<br>- at 400 Vinited value<br>58 A<br>- at 700 Vinited value<br>59 A<br>- at 700 Vinited value<br>50 Vinited value | — at 24 V rated value                                                   | 55 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 60 V rated value                                                   | 45 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 110 V rated value                                                  | 25 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 220 V rated value                                                  | 5 A                                                       |
| • with 3 current path in series at DC-3 at DC-5     55 A       - at 20 V rated value     55 A       - at 110 V rated value     55 A       - at 120 V rated value     55 A       - at 440 V rated value     66 A       - at 420 V rated value     0.35 A       operating power     0.35 A       - at 600 V rated value     0.35 A       operating power     0.15 KW       - at 230 V rated value     30 KW       - at 230 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     37 KW       - at 600 V rated value     37 KW       - at 600 V rated value     30 KW <t< td=""><td>— at 440 V rated value</td><td>0.27 A</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | — at 440 V rated value                                                  | 0.27 A                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 600 V rated value                                                  | 0.16 A                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 24 V rated value                                                   | 55 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 60 V rated value                                                   | 55 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 110 V rated value                                                  | 55 A                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 220 V rated value                                                  | 25 A                                                      |
| operating power       at AC-2 at 400 V rated value       30 kW         • at AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | — at 440 V rated value                                                  | 0.6 A                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 600 V rated value                                                  | 0.35 A                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | operating power                                                         |                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | 30 kW                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • at AC-3                                                               |                                                           |
| at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value35 kVA op to 400 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA op to 400 V for current peak value n=30 rated value28 kVA up to 580 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op time bas value n=30 rated value28 kVA <td>— at 230 V rated value</td> <td>18.5 kW</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | — at 230 V rated value                                                  | 18.5 kW                                                   |
| at 890 V rated value37 kW• at AC-3e at 230 V rated value30 kW at 400 V rated value30 kW at 690 V rated value37 kW at 690 V rated value20 kWoperating paperent power at AC-6a22.6 kVA up to 500 V for current peak value n=20 rated value39.4 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=30 rated value56.1 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA </td <td>— at 400 V rated value</td> <td>30 kW</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | — at 400 V rated value                                                  | 30 kW                                                     |
| • at AC-3eI at 230 V rated value15.5 kW- at 400 V rated value30 kW- at 600 V rated value37 kW- at 600 V rated value37 kW- at 600 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-414.7 kW• at 400 V rated value14.7 kW• at 600 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 690 V for current peak value n=30 rated value22.8 kVA• up to 600 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current no current maximum1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 ra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | — at 500 V rated value                                                  | 37 kW                                                     |
| at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-<br>47 kW• at 400 V rated value14.7 kWoperating apparent power at AC-6a22<br>22 kWA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value50.1 kVA• up to 500 V for current peak value n=20 rated value51.4 kVA• up to 500 V for current peak value n=30 rated value52.4 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• uimited to 1 s switching at zero current maximum33.6 k.U se minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum35.0 k.U se minimum cross-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | — at 690 V rated value                                                  | 37 kW                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • at AC-3e                                                              |                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 230 V rated value                                                  | 18.5 kW                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | — at 400 V rated value                                                  | 30 kW                                                     |
| operating power for approx. 20000 operating cycles at AC-4       14.7 kW         • at 400 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       46.1 kVA         • up to 500 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 500 V for current peak value n=30 rated value       56.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40° C       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | — at 500 V rated value                                                  | 37 kW                                                     |
| 4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | — at 690 V rated value                                                  | 37 kW                                                     |
| 4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                                           |
| • at 690 V rated value       20 kW         operating apparent power at AC-6a       22.6 kVA         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 600 V for current peak value n=20 rated value       39.4 kVA         • up to 690 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       51.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40°C       45.3 kVA         • limited to 1 s switching at zero current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                                           |
| operating apparent power at AC-6a22.6 kVA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value49.2 kVA• up to 690 V for current peak value n=20 rated value50.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value22.6 kVA• up to 500 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value28.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value45.3 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA• up to 500 V for current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum20 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>at 400 V rated value</li> </ul>                                | 14.7 kW                                                   |
| • up to 230 V for current peak value n=20 rated value       22.6 kVA         • up to 400 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       50.1 kVA         operating apparent power at AC-6a       6         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       50 A (Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>at 690 V rated value</li> </ul></td> <td>20 kW</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul> <li>at 690 V rated value</li> </ul>                                | 20 kW                                                     |
| up to 400 V for current peak value n=20 rated value39.4 kVAup to 500 V for current peak value n=20 rated value49.2 kVAup to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6aup to 230 V for current peak value n=30 rated value15.1 kVAup to 400 V for current peak value n=30 rated value26.2 kVAup to 500 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C40 °Cilmited to 1 s switching at zero current maximum1055 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 50 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum270 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum200 1/hoperating frequency5000 1/he at AC5000 1/he at AC-1 maximum800 1/h<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | operating apparent power at AC-6a                                       |                                                           |
| • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 S switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul></td> <td>22.6 kVA</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 22.6 kVA                                                  |
| • up to 690 V for current peak value n=20 rated value     for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 500 V for current peak value n=30 rated value     26.2 kVA     iup to 500 V for current peak value n=30 rated value     32.8 kVA     iup to 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to     40 °C     ilimited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     at AC-     sound thing frequency     i at AC-     for                                                                                                                                                                                                                                                  | <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul> | 39.4 kVA                                                  |
| operating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value15.1 kVA• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul> | 49.2 kVA                                                  |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>15.1 kVA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>26.2 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>32.8 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>45.3 kVA</li> <li>short-time withstand current in cold operating state up to</li> <li>40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S20 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>s to 00 1/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul> | 56.1 kVA                                                  |
| • up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA <b>short-time withstand current in cold operating state up to</b><br><b>40 °C</b> 1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | operating apparent power at AC-6a                                       |                                                           |
| • up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> | 15.1 kVA                                                  |
| • up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul> | 26.2 kVA                                                  |
| short-time withstand current in cold operating state up to<br>40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul> | 32.8 kVA                                                  |
| 40 °C• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul> | 45.3 kVA                                                  |
| • limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum800 1/h• at AC-3 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                           |
| • limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                                                           |
| • limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                                                       |                                                           |
| • limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency<br>• at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                       |                                                           |
| • limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                       |                                                           |
| no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                       |                                                           |
| • at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         | 272 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         |                                                           |
| • at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         | 5 000 1/h                                                 |
| • at AC-2 maximum       400 1/h         • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                         |                                                           |
| • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                         |                                                           |
| • at AC-3e maximum         700 1/h           • at AC-4 maximum         200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                                           |
| • at AC-4 maximum 200 1/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                                                           |
| Control circuit/ Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                         | 200 1/h                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Control circuit/ Control                                                |                                                           |

| type of voltage of the control supply voltage                                     | AC                                              |
|-----------------------------------------------------------------------------------|-------------------------------------------------|
| control supply voltage at AC                                                      |                                                 |
| at 50 Hz rated value                                                              | 230 V                                           |
| operating range factor control supply voltage rated value of<br>magnet coil at AC |                                                 |
| • at 50 Hz                                                                        | 0.8 1.1                                         |
| apparent pick-up power of magnet coil at AC                                       | 100 \/A                                         |
| • at 50 Hz                                                                        | 190 VA                                          |
| inductive power factor with closing power of the coil<br>• at 50 Hz               | 0.72                                            |
| apparent holding power of magnet coil at AC                                       | 10.14                                           |
| • at 50 Hz                                                                        | 16 VA                                           |
| inductive power factor with the holding power of the coil                         | 0.37                                            |
| • at 50 Hz                                                                        | 0.57                                            |
| elosing delay<br>• at AC                                                          | 10 80 ms                                        |
| opening delay                                                                     | 10 00 1115                                      |
| • at AC                                                                           | 10 18 ms                                        |
| arcing time                                                                       | 10 20 ms                                        |
|                                                                                   | Standard A1 - A2                                |
| control version of the switch operating mechanism                                 |                                                 |
| Auxiliary circuit                                                                 | 1                                               |
| number of NC contacts for auxiliary contacts instantaneous contact                | 1                                               |
| number of NO contacts for auxiliary contacts instantaneous<br>contact             | 1                                               |
| operational current at AC-12 maximum                                              | 10 A                                            |
| operational current at AC-15                                                      |                                                 |
| • at 230 V rated value                                                            | 10 A                                            |
| • at 400 V rated value                                                            | 3 A                                             |
| <ul> <li>at 500 V rated value</li> </ul>                                          | 2 A                                             |
| • at 690 V rated value                                                            | 1 A                                             |
| operational current at DC-12                                                      |                                                 |
| • at 24 V rated value                                                             | 10 A                                            |
| • at 48 V rated value                                                             | 6 A                                             |
| • at 60 V rated value                                                             | 6 A                                             |
| • at 110 V rated value                                                            | 3 A                                             |
| • at 125 V rated value                                                            | 2 A                                             |
| • at 220 V rated value                                                            | 1 A                                             |
| • at 600 V rated value                                                            | 0.15 A                                          |
| operational current at DC-13                                                      |                                                 |
| • at 24 V rated value                                                             | 10 A                                            |
| • at 48 V rated value                                                             | 2 A                                             |
| • at 60 V rated value                                                             | 2 A                                             |
| • at 110 V rated value                                                            | 1 A                                             |
| • at 125 V rated value                                                            | 0.9 A                                           |
| • at 220 V rated value                                                            | 0.3 A                                           |
| • at 600 V rated value                                                            | 0.1 A                                           |
| contact reliability of auxiliary contacts                                         | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings                                                                    |                                                 |
| full-load current (FLA) for 3-phase AC motor                                      |                                                 |
| • at 480 V rated value                                                            | 65 A                                            |
| • at 600 V rated value                                                            | 52 A                                            |
| yielded mechanical performance [hp]                                               |                                                 |
| • for single-phase AC motor                                                       |                                                 |
| — at 110/120 V rated value                                                        | 5 hp                                            |
| — at 230 V rated value                                                            | 10 hp                                           |
| <ul> <li>for 3-phase AC motor</li> </ul>                                          |                                                 |
| — at 200/208 V rated value                                                        | 20 hp                                           |
| — at 220/230 V rated value                                                        | 20 hp                                           |
| — at 460/480 V rated value                                                        | 50 hp                                           |
| — at 575/600 V rated value                                                        | 50 hp                                           |
|                                                                                   |                                                 |

| contact rating of auxiliary contacts according to UL A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 600 / P600                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Short-circuit protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                               |
| design of the fuse link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                               |
| for short-circuit protection of the main circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80<br>A)                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G: 10 A (500 V, 1 kA)                                                                                                                                                                                                                                                                                                                                                                                         |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | anding, on horizontal mounting surface                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                                                                                                                                                                                                                                                                                                       |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | es                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14 mm                                                                                                                                                                                                                                                                                                                                                                                                         |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| depth 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30 mm                                                                                                                                                                                                                                                                                                                                                                                                         |
| required spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                               |
| with side-by-side mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                               |
| — forwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — upwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — downwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — at the side 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| for grounded parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                               |
| — forwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — upwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| - at the side 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| - downwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| for live parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
| — forwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — upwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
| — downwards 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                               |
| type of electrical connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                               |
| for main current circuit     sc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | crew-type terminals                                                                                                                                                                                                                                                                                                                                                                                           |
| for auxiliary and control circuit     sc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | crew-type terminals                                                                                                                                                                                                                                                                                                                                                                                           |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | crew-type terminals                                                                                                                                                                                                                                                                                                                                                                                           |
| a of magnat coil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                               |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | crew-type terminals                                                                                                                                                                                                                                                                                                                                                                                           |
| type of connectable conductor cross-sections for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
| type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> </ul> 2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | x (1 35 mm²), 1x (1 50 mm²)                                                                                                                                                                                                                                                                                                                                                                                   |
| type of connectable conductor cross-sections for main contacts       • solid or stranded       2x         • finely stranded with core end processing       2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                               |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)                                                                                                                                                                                                                                                                                                                                                    |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | x (1 35 mm²), 1x (1 50 mm²)                                                                                                                                                                                                                                                                                                                                                                                   |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²                                                                                                                                                                                                                                                                                                                                          |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²<br>5 2.5 mm²                                                                                                                                                                                                                                                                                                                             |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         inely stranded       0.         • finely stranded with core end processing       0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²                                                                                                                                                                                                                                                                                                                                          |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         inely stranded with core end processing       0.         type of connectable conductor cross-sections       0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²<br>5 2.5 mm²                                                                                                                                                                                                                                                                                                                             |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         inely stranded       0.         finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         inely stranded with core end processing       0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²<br>.5 2.5 mm²<br>.5 2.5 mm²                                                                                                                                                                                                                                                                                                              |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       0         • finely stranded with core end processing       0         tornnectable conductor cross-section for auxiliary contacts       0         • solid or stranded       0         • finely stranded with core end processing       0         • finely stranded with core send processing       0         • for auxiliary contacts       2         • for auxiliary contacts       2         • solid or stranded       2×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²<br>.5 2.5 mm²<br>.5 2.5 mm²<br>x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)                                                                                                                                                                                                                                                                        |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       0         • finely stranded       0         • finely stranded with core end processing       0         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x         - finely stranded with core end processing       2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )                                                                |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       0         • finely stranded with core end processing       0         timely stranded with core end processing       0         • finely stranded with core end processing       0         • for auxiliary contacts       0         • for auxiliary contacts       0         • for auxiliary contacts       2x         • finely stranded with core end processing       2x         • finely stranded with core end processing       2x         • for AWG cables for auxiliary contacts       2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | x (1 35 mm²), 1x (1 50 mm²)<br>x (1 25 mm²), 1x (1 35 mm²)<br>35 mm²<br>.5 2.5 mm²<br>.5 2.5 mm²<br>x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)                                                                                                                                                                                                                                                                        |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       0         • finely stranded       0         • finely stranded with core end processing       0         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x         - finely stranded with core end processing       2x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )                                                                |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       0         • finely stranded with core end processing       0         total or stranded       0         • finely stranded with core end processing       0         • for auxiliary contacts       0         - solid or stranded       2x         - finely stranded with core end processing       2x         • for AWG cables for auxiliary contacts       2x         • for AWG cables for auxiliary contacts       2x         AWG number as coded connectable conductor cross section       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )                                                                |
| type of connectable conductor cross-sections for main contacts• solid or stranded2x• finely stranded with core end processing2xconnectable conductor cross-section for main contacts1connectable conductor cross-section for auxiliary contacts0.• finely stranded with core end processing0.tornectable conductor cross-section for auxiliary contacts0.• solid or stranded0.• finely stranded with core end processing0.• finely stranded with core end processing0.• finely stranded with core end processing0.• for auxiliary contacts2x- solid or stranded2x- solid or stranded2x- finely stranded with core end processing2x• for AWG cables for auxiliary contacts2x• for AWG cables for auxiliary contacts2x• for main contacts18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>.5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (20 16), 2x (18 14) |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         solid or stranded       0.         • finely stranded with core end processing       0.         • for auxiliary contacts       2x         - solid or stranded       2x         - finely stranded with core end processing       2x         • for AWG cables for auxiliary contacts       2x         • for AWG cables for auxiliary contacts       2x         • for AWG cables for auxiliary contacts       2x         • for main contacts       18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>2.5 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (20 16), 2x (18 14)<br>8 1                                    |
| type of connectable conductor cross-sections for main contacts• solid or stranded2x• finely stranded with core end processing2xconnectable conductor cross-section for main contacts1connectable conductor cross-section for auxiliary contacts0• finely stranded with core end processing0• solid or stranded0• finely stranded with core end processing0• finely stranded with core end processing0• finely stranded with core end processing0• for auxiliary contacts2x• for auxiliary contacts2x• for auxiliary contacts2x• for AWG cables for auxiliary contacts2x• for main contacts18• for auxiliary contacts18• for auxiliary contacts2xAWG number as coded connectable conductor cross18• for auxiliary contacts2x• for auxiliary contacts <td< td=""><td>x (1 35 mm<sup>2</sup>), 1x (1 50 mm<sup>2</sup>)<br/>x (1 25 mm<sup>2</sup>), 1x (1 35 mm<sup>2</sup>)<br/> 35 mm<sup>2</sup><br/> 35 mm<sup>2</sup><br/> 2.5 mm<sup>2</sup><br/>5 2.5 mm<sup>2</sup><br/>x (0.5 1.5 mm<sup>2</sup>), 2x (0.75 2.5 mm<sup>2</sup>)<br/>x (0.5 1.5 mm<sup>2</sup>), 2x (0.75 2.5 mm<sup>2</sup>)<br/>x (20 16), 2x (18 14)<br/>8 1</td></td<> | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>2.5 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (20 16), 2x (18 14)<br>8 1                                    |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         inely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         • finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         • for auxiliary contacts       2x         - solid or stranded       2x         - finely stranded with core end processing       2x         - for AWG cables for auxiliary contacts       2x         • for main contacts       18         • for main contacts       18         • for auxiliary contacts       20         Safety related data       20                                                                                                                                                                                                                                                                                                                                                | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>2.5 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (20 16), 2x (18 14)<br>8 1                                    |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         inely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         • finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         • for auxiliary contacts       2x         - solid or stranded       2x         - finely stranded with core end processing       2x         - for AWG cables for auxiliary contacts       2x         • for main contacts       18         • for main contacts       18         • for auxiliary contacts       20         Safety related data       20                                                                                                                                                                                                                                                                                                                                                | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 16), 2x (18 14)<br>8 1<br>0 14<br>es                                         |
| type of connectable conductor cross-sections for main contacts       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         e finely stranded with core end processing       1         connectable conductor cross-section for auxiliary contacts       0.         • solid or stranded       0.         • finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         • for auxiliary contacts       2         - solid or stranded       2x         - finely stranded with core end processing       2x         - for AWG cables for auxiliary contacts       2x         AWG number as coded connectable conductor cross section       2x         • for main contacts       18         • for auxiliary contacts       20         Safety related data       2x         product function       11         • mirror contact according to IEC 60947-4-1       Ye         • posit                                                                                                                                                                                                                                                          | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>5 2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 16), 2x (18 14)<br>8 1<br>0 14<br>es                                         |
| type of connectable conductor cross-sections for main contacts       2x         • solid or stranded       2x         • finely stranded with core end processing       2x         connectable conductor cross-section for main contacts       1         connectable conductor cross-section for auxiliary contacts       1         connectable conductor cross-section for auxiliary contacts       0.         e finely stranded with core end processing       0.         e finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         e for auxiliary contacts       2x         — solid or stranded       2x         — finely stranded with core end processing       0.         type of connectable conductor cross-sections       0.         e for auxiliary contacts       2x         — finely stranded with core end processing       2x         — finely stranded with core end processing       2x         — finely stranded with core end processing       2x         — for AWG cables for auxiliary contacts       2x         Section       18         • for auxiliary contacts       20         Safety related data       20         product function       18         • positively driven operation according to IEC                                                                                                                                                                                                                                                           | x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>35 mm <sup>2</sup><br>2.5 mm <sup>2</sup><br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )<br>x (20 16), 2x (18 14)<br>8 1<br>0 14<br>es<br>o                    |

| <ul> <li>with low demand</li> </ul>                                        | rate according to SN 319                                                                                                                        | 20 40                                                                          | %                                     |                                                |                               |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|-------------------------------|
| <ul> <li>with high deman</li> </ul>                                        | d rate according to SN 31                                                                                                                       | 920 73                                                                         | %                                     |                                                |                               |
| failure rate [FIT] with lo                                                 | w demand rate according                                                                                                                         | to SN 31920 100                                                                | ) FIT                                 |                                                |                               |
| T1 value for proof test i 61508                                            | nterval or service life acco                                                                                                                    | rding to IEC 20                                                                | а                                     |                                                |                               |
| protection class IP on                                                     | the front according to I                                                                                                                        | EC 60529 IP2                                                                   | 20                                    |                                                |                               |
| touch protection on th                                                     | ne front according to IEC                                                                                                                       | <b>60529</b> fing                                                              | ger-safe, for vertical contact        | from the front                                 |                               |
| ertificates/ approvals                                                     |                                                                                                                                                 |                                                                                |                                       |                                                |                               |
| General Product App                                                        | roval                                                                                                                                           |                                                                                |                                       |                                                |                               |
| SP<br>SM                                                                   |                                                                                                                                                 | <u>Confirmation</u>                                                            |                                       | KC                                             | EHC                           |
| EMC                                                                        | Functional<br>Safety/Safety of Ma-<br>chinery                                                                                                   | Declaration of Conf                                                            | ormity                                | Test Certificates                              |                               |
| RCM                                                                        | Type Examination Cer-<br>tificate                                                                                                               | CE<br>EG-Konf.                                                                 | UK<br>CA                              | <u>Type Test Certific-</u><br>ates/Test Report | Special Test Certific-<br>ate |
| Marine / Shipping                                                          |                                                                                                                                                 |                                                                                |                                       |                                                |                               |
| ABS                                                                        | BUREAU                                                                                                                                          |                                                                                | Lloyd's<br>Register<br>urs            | PRS                                            | RINA                          |
| Marine / Shipping                                                          | other                                                                                                                                           |                                                                                | Railway                               | Dangerous Good                                 |                               |
| KIMIS RAMES                                                                | <u>Confirmation</u>                                                                                                                             | <u>Confirmation</u>                                                            | <u>Vibration and Shock</u>            | Transport Information                          |                               |
| unthan information                                                         |                                                                                                                                                 |                                                                                |                                       |                                                |                               |
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| Cax online generator                                                       |                                                                                                                                                 |                                                                                |                                       |                                                |                               |
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| https://support.industry<br>Image database (prod<br>http://www.automation. | siemens.com/bilddb/cax_c                                                                                                                        | s/3RT2037-1AP00-1AA<br>on drawings, 3D mode<br>de.aspx?mlfb=3RT2037            | els, device circuit diagram           | s, EPLAN macros,)                              |                               |
|                                                                            | ng characteristics, I <sup>2</sup> t, Le<br>siemens.com/cs/ww/en/p                                                                              |                                                                                | 0/char                                |                                                |                               |
| Further characteristic                                                     | s (e.g. electrical endural siemens.com/bilddb/index                                                                                             | nce, switching frequer                                                         | ncy)                                  |                                                |                               |





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