## SIEMENS

## Data sheet

## 3RT2016-2SB42



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, 0.85-1.85\* Us, with integrated suppressor diode, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Coupling contactor         |
| product type designation  | 3RT2                       |
| General technical data  |                            |
| size of contactor   | S00                        |
| product extension   |                            |
| <ul> <li>function module for communication</li> </ul>   | No                         |
| <ul> <li>auxiliary switch</li> </ul>  | No                         |
| power loss [W] for rated value of the current   |                            |
| <ul> <li>at AC in hot operating state</li> </ul>  | 0.9 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>   | 0.3 W                      |
| <ul> <li>without load current share typical</li> </ul>  | 1.6 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 DC   | 6,7g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at DC   | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (operating cycles)  |                            |
| of contactor typical  | 30 000 000                 |
| reference code according to IEC 81346-2   | Q                          |
| Substance Prohibitance (Date)   | 10/01/2009                 |
| Ambient conditions  |                            |
| installation altitude at height above sea level maximum   | 2 000 m                    |
| ambient temperature   |                            |
| <ul> <li>during operation</li> </ul>  | -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   |                            |
| <ul> <li>at AC-3 rated value maximum</li> </ul>   | 690 V                      |

| • at AC 3c rated value maximum  | 600.1/            |  |  |
|---|-------------------|--|--|
| at AC-3e rated value maximum  | 690 V             |  |  |
| operational current     o at AC-1 at 400 V at ambient temperature 40 °C rated         | 22 A              |  |  |
| value<br>• at AC-1  |                   |  |  |
| <ul> <li>at AC-1</li> <li>— up to 690 V at ambient temperature 40 °C rated</li> </ul> | 22 A              |  |  |
| value   |                   |  |  |
| — up to 690 V at ambient temperature 60 °C rated value                                | 20 A              |  |  |
| • at AC-3   |                   |  |  |
| — at 400 V rated value  | 9 A               |  |  |
| — at 500 V rated value  | 7.7 A             |  |  |
| — at 690 V rated value  | 6.7 A             |  |  |
| • at AC-3e  |                   |  |  |
| — at 400 V rated value  | 9 A               |  |  |
| — at 500 V rated value  | 7.7 A             |  |  |
| — at 690 V rated value  | 6.7 A             |  |  |
| <ul> <li>at AC-4 at 400 V rated value</li> </ul>                                      | 8.5 A             |  |  |
| <ul> <li>at AC-5a up to 690 V rated value</li> </ul>                                  | 19.4 A            |  |  |
| <ul> <li>at AC-5b up to 400 V rated value</li> </ul>                                  | 7.4 A             |  |  |
| • at AC-6a  |                   |  |  |
| <ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>             | 5.3 A             |  |  |
| <ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>             | 5.3 A             |  |  |
| — up to 500 V for current peak value n=20 rated value                                 | 5.3 A             |  |  |
| — up to 690 V for current peak value n=20 rated value                                 | 5 A               |  |  |
| ● at AC-6a  |                   |  |  |
| — up to 230 V for current peak value n=30 rated value                                 | 3.5 A             |  |  |
| — up to 400 V for current peak value n=30 rated value                                 | 3.5 A             |  |  |
| — up to 500 V for current peak value n=30 rated value                                 | 3.6 A             |  |  |
| — up to 690 V for current peak value n=30 rated value                                 | 3.3 A             |  |  |
| minimum cross-section in main circuit at maximum AC-1 rated                           | 4 mm <sup>2</sup> |  |  |
| value   | -                 |  |  |
| operational current for approx. 200000 operating cycles at AC-4                       |                   |  |  |
| • at 400 V rated value  | 4.1 A             |  |  |
| • at 690 V rated value  | 3.3 A             |  |  |
| operational current   |                   |  |  |
| • at 1 current path at DC-1   |                   |  |  |
| — at 24 V rated value   | 20 A              |  |  |
| — at 60 V rated value   | 20 A              |  |  |
| — at 110 V rated value  | 2.1 A             |  |  |
| — at 220 V rated value  | 0.8 A             |  |  |
| — at 440 V rated value  | 0.6 A             |  |  |
| — at 600 V rated value  | 0.6 A             |  |  |
| <ul> <li>with 2 current paths in series at DC-1</li> </ul>                            |                   |  |  |
| — at 24 V rated value   | 20 A              |  |  |
| — at 60 V rated value   | 20 A              |  |  |
| — at 110 V rated value  | 12 A              |  |  |
| — at 220 V rated value  | 1.6 A             |  |  |
| — at 440 V rated value  | 0.8 A             |  |  |
| — at 600 V rated value  | 0.7 A             |  |  |
| with 3 current paths in series at DC-1  |                   |  |  |
| with 3 current paths in series at DC-1     — at 24 V rated value                      | 20 A              |  |  |
|   |                   |  |  |
| — at 60 V rated value   | 20 A              |  |  |
| — at 110 V rated value  | 20 A              |  |  |
| — at 220 V rated value  | 20 A              |  |  |
| — at 440 V rated value  | 1.3 A             |  |  |
| — at 600 V rated value  | 1 A               |  |  |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>                                 |                   |  |  |
| — at 24 V rated value   | 20 A              |  |  |
| — at 60 V rated value   | 0.5 A             |  |  |
| — at 110 V rated value  | 0.15 A            |  |  |

| - all 24 V relied value00 A- all 10 V ried value03 A- all 24 V relied value03 A- all 24 V relied value20 A- all 04 V ried value20 A- all 04 V ried value20 A- all 104 V ried value20 A- all 104 V ried value20 A- all 200 V ried value20 A- all 200 V ried value20 A- all 200 V ried value22 A- all 200 V ried value22 A- all 200 V ried value22 A- all 200 V ried value4 W- all 200 V ried value5 5 W- all 200 V ried value5 5 W- all 200 V ried value6 W- all 200 V ried value6 W- all 200 V ried value6 W- all 200 V ried value2 2 IW- all 200 V ried value6 W- all 200 V ried value2 W- all 200 V ried value6 W- all 200 V ried value2 IW- all 200 V ried value1 IW- all 200 V ried value2 IW- all 200 V ried value3 IW- all 200 V ried va  | - with 2 current action in conting of DC 2 of DC 5                      |   |  |  |  |  |
|---|---|---|--|--|--|--|
| <ul> <li></li></ul>   | with 2 current paths in series at DC-3 at DC-5                          | 20.4  |  |  |  |  |
|   |   |   |  |  |  |  |
| • • thi 3 current paths in suries at BC-3 at DC-3 at 20 V rated value20 A at 10 V rated value20 A at 20 V rated value20 A at 40 V rated value0.2 A at 40 V rated value0.2 A   |   |   |  |  |  |  |
| - # 24 Vinder value20 A- # t60 Vinder value0.2 A- # t60 Vinder value0.2 A- # t60 Vinder value0.2 A- # t60 Vinder value2.2 KW- # t60 Vinder value4.1000- # t60 Vinder value5.5 KW- # t60 Vinder value5.5 KW- # t60 Vinder value5.5 KW- # t60 Vinder value4.1000- # t60 Vinder value2.2 KW- # t60 Vinder value4.1000- # t60 Vinder value2.2 KW- # t60 Vinder value2.1 KW- # t60 Vinder value3.6 KW- # t60 Vinder value3.6 KW- # t60 Vinder value <td< td=""><td></td><td>0.35 A</td></td<>  |   | 0.35 A  |  |  |  |  |
|   |   | 20.4  |  |  |  |  |
|   |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
| - at 400 Y rated value     0.2 A       - at 600 Y rated value     0.2 A       - at 600 Y rated value     0.2 A       - at 230 V rated value     2.2 kW       - at 400 V rated value     4 kW       - at 500 V rated value     5.5 kW       - at 500 V rated value     5.5 kW       - at 600 V rated value     2.2 kW       - at 600 V rated value     2.8 kW       - at 600 V rated value     2.8 kW       - at 600 V rated value     2.8 kW       - at 600 V fread value     2.8 kW       - op 600 V for current pask value n=20 rated value     2.8 kW       - op 600 V for current pask value n=20 rated value     3.6 kWA       - op 600 V for current pask value n=20 rated value     3.6 kWA       - op 600 V for current pask value n=30 rated value     2.4 kWA       - op 600 V for current pask value n=30 rated value     4.8 kW       - op 600 V for current pask value n=30 rated value     3.8 kW       - op 600 V for current pask value n=30 rated value     4.8 kW       - op 600 V for current pask value n=30 rated value  |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
| operating power   |   |   |  |  |  |  |
| • al AQC- al 230 V rated value2.2 kW- al 230 V rated value4 kW- al 500 V rated value5 kW- al 600 V rated value5 kW- al 230 V rated value2.2 kW- al 230 V rated value2.2 kW- al 230 V rated value4 kW- al 600 V rated value2.2 kW- al 600 V rated value4 kW- al 600 V rated value2.2 kW- al 600 V rated value5 kW- al 600 V rated value2 kW- al 600 V for current pack value n=20 rated value6 kWA- al 0 V for current pack value n=20 rated value1 kWA- al 0 b 600 V for current pack value n=30 rated value1 kWA- al 610 V for current pack value n=30 rated value1 kWA- al 610 V for current pack value n=30 rated value6 k Use minimum cross-section acc. to AC-1 rated value- al 610 V for current pack value n=30 rated value6 k Use minimum cross-section acc. to AC-1 rated value- al 610 V for current pack value n=10 V for Use minimum cross-section acc. t   |   | 0.2 A   |  |  |  |  |
| - al 230 V rated value2 2 kW- al 400 V rated value4 kW- al 600 V rated value5 kW- al 600 V rated value2 2 kW- al 600 V rated value4 kW- al 600 V rated value4 kW- al 600 V rated value4 kW- al 600 V rated value5 kW- al 600 V rated value2 kW- al 600 V rated value3 kWA- al 600 V rated value - al crated value3 kWA- al 600 V rated value - al crated value3 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value4 kWA- al 600 V for current pack value - al crated value3 kWA- al 600 V for current pack value - al crated value6 kWA- al 600 V for current pack value - al crated value6 kUSe minimum cross-section acc. to AC-1 rated value- al 600 K1000 1h  |   |   |  |  |  |  |
|   |   | 2.2 kW  |  |  |  |  |
| - al 500 Y rated value4 KW- al 600 Y rated value55 KW- al 230 V rated value22 kW- al 400 Y rated value4 KW- al 600 Y rated value4 KW- al 600 Y rated value4 KW- al 600 V rated value5 KW- al 600 Y rated value2 kW- al 600 Y rated value = 20 rated value3 kWA- al 600 Y for current pack value n=20 rated value3 kWA- up to 230 Y for current pack value n=20 rated value3 kWA- up to 230 Y for current pack value n=20 rated value3 kWA- up to 230 Y for current pack value n=30 rated value3 kWA- up to 230 Y for current pack value n=30 rated value4 kWA- up to 230 Y for current pack value n=30 rated value4 kWA- up to 500 Y for current pack value n=30 rated value4 kWA- up to 500 Y for current pack value n=30 rated value4 kWA- up to 500 Y for current pack value n=30 rated value6 k.VB- up to 500 Y for current pack value n=30 rated value6 k.VB- up to 500 Y for current pack value n=30 rated value6 k.VB- up to 500 Y for current pack value n=30 rated value6 k.VB- up to 500 Y for current pack value n=30 rated value6 k.VB-   |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
| • at AC-3e- at 230 V rated value2 kW- at 600 V rated value4 kW- at 600 V rated value4 kW- at 600 V rated value5 kWoperating power for approx. 20000 operating cycles at AC-42 kW- at 600 V rated value2 kW- at 600 V for current pask value n=20 rated value3 kVA- up to 520 V for current pask value n=20 rated value3 kVA- up to 520 V for current pask value n=20 rated value4 kVA- up to 520 V for current pask value n=20 rated value3 kVA- up to 520 V for current pask value n=20 rated value2 kVA- up to 520 V for current pask value n=20 rated value2 kVA- up to 520 V for current pask value n=30 rated value2 kVA- up to 520 V for current pask value n=30 rated value2 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value3 kVA- up to 520 V for current pask value n=30 rated value1 kVA- infiled value </td <td></td> <td></td>   |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
|   |   | 2.2 kW  |  |  |  |  |
|   |   |   |  |  |  |  |
| − at 680 V rated value         5 kW           operating power for approx. 200000 operating cycles at AC-6         2 kW           at 400 V rated value         2 kW           operating apparent power AAC-6a  |   |   |  |  |  |  |
| operating power for approx. 20000 operating cycles at AC-4         2 kW           • at 400 V rated value         2 kW           • at 690 V rated value         2.5 kW           operating apparent power at AC-6a         2 kVA           • up to 230 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         5.9 kVA           operating apparent power at AC-6a         1.3 kVA           • up to 400 V for current peak value n=30 rated value         2.4 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         4.4 kVA           stort-time withstand current in cold operating state up to 5         4.4 kVA           • up to 500 s witching at zero current maximum         115 k. Use minimum cross-section acc. to AC-1 rated value           • limited to 10 s switching at zero current maximum         16 k. Use minimum cross-section acc. to AC-1 rated value           • at DC         10 000 1/h         100 1/h   |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
| • at 690 V rated value2.5 kWoperating apparent power at AC-6aV• up to 230 V for current peak value n=20 rated value3.6 kVA• up to 500 V for current peak value n=20 rated value4.6 kVA• up to 500 V for current peak value n=20 rated value5.9 kVA• up to 500 V for current peak value n=20 rated value5.9 kVA• up to 500 V for current peak value n=30 rated value1.3 kVA• up to 500 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current meak value n=30 rated value3.1 kVA• up to 500 V for current meak value n=30 rated value3.1 kVA• up to 500 V for current meak value n=30 rated value3.6 kVA• up to 500 V for current meak value n=30 rated value3.6 kVA• up to 500 V for current meak value n=30 rated value3.6 kVA• up to 500 V for current peak value n=30 rated value3.6 kVA• up to 500 V for current meak value n=30 rated value3.6 kVA• up to 500 V for current meak value n=30 rated value3.6 kVA• limited to 10 s switching at zero current maximum56 A Use minimum cross-section acc. to AC-1 rated value• at AC-4 maximum1.000 t/h<   |   |   |  |  |  |  |
| operating apparent power at AC-6a         2 kVA           • up to 230 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         3.6 kVA           • up to 500 V for current peak value n=20 rated value         5.9 kVA           operating apparent power at AC-6a         1.3 kVA           • up to 230 V for current peak value n=30 rated value         2.4 kVA           • up to 230 V for current peak value n=30 rated value         2.4 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         4.1 kVA           • up to 500 V for current peak value n=30 rated value         4.1 kVA           • up to 500 V for current peak value n=30 rated value         5.1 kVA           • up to 500 V for current peak value n=30 rated value         5.1 kVA           • up to 500 V for current peak value n=30 rated value         5.2 kVA           • initiet to 1 s switching at zero current maximum         11.1 kVB e minimum cross-section acc. to A   | • at 400 V rated value  | 2 kW  |  |  |  |  |
| • up to 230 V for current peak value n=20 rated value2 kVA• up to 500 V for current peak value n=20 rated value3.6 kVA• up to 500 V for current peak value n=20 rated value4.6 kVA• up to 500 V for current peak value n=20 rated value5.9 kVA• up to 500 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current maximum115 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 50 s switching at zero current maximum100 00 1/h• at DC10 000 1/h• at AC-1 maximum100 00 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum260 1/h• at AC-4 maximum<   | • at 690 V rated value  | 2.5 kW  |  |  |  |  |
| • up to 400 V for current peak value n=20 rated value3.6 kVA• up to 500 V for current peak value n=20 rated value4.6 kVA• up to 500 V for current peak value n=20 rated value5.9 kVA• up to 230 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value5.5 k.1 Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum6.6 k.1 Use minimum cross-section acc. to AC-1 rated value• al DC0.000 1/h• at AC-3 maximum1.000 1/h• at AC-3 maximum7.50 1/h• at AC-3 maximum7.50 1/h <td>operating apparent power at AC-6a</td> <td></td>   | operating apparent power at AC-6a                                       |   |  |  |  |  |
| • up to 500 V for current peak value n=20 rated value4.6 kVA• up to 590 V for current peak value n=20 rated value5.9 kVAoperating apparent power at AC-6a-• up to 230 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value4.kVA• up to 500 V for current peak value n=30 rated value5.5 k. Use minimum cross-section acc. to AC-1 rated value• uimided to 1 s switching at zero current maximum55 k. Use minimum cross-section acc. to AC-1 rated value• limided to 10 s switching at zero current maximum66 A. Use minimum cross-section acc. to AC-1 rated value• limide to 10 s switching at zero current maximum55 k. Use minimum cross-section acc. to AC-1 rated value• limide to 10 s switching at zero current maximum56 k. Use minimum cross-section acc. to AC-1 rated value• at AC-1 maximum1000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-2 maximum750 1/h• at AC-3 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum260 1/h• at AC-4 maximum260 1/h<  | <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 2 kVA   |  |  |  |  |
| • up to 590 V for current peak value n=20 rated value         5.9 kVA           operating apparent power at AC-6         -           • up to 500 V for current peak value n=30 rated value         2.4 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         4 kVA           short-time withstand current in cold operating state up to 40° C         4 kVA           short-time withstand current maximum         155 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 1 s switching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 30 s switching at zero current maximum         56 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 60 s switching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 60 s switching at zero current maximum         55 A; Use minimum cross-section acc. to AC-1 rated value           • at DC         10 000 1/h           • at DC         10 000 1/h           • at AC-1 maximum         750 1/h           • at AC-3 maximum         750 1/h           • at AC-3 maximum         750 1/h           • at AC-3 maximum         750 1/h   |   | 3.6 kVA   |  |  |  |  |
| operating apparent power at AC-6a   |   |   |  |  |  |  |
| • up to 230 V for current peak value n=30 rated value1.3 kVA• up to 600 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to<br>40 °C4 kVA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum100 00 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• operating range factor control supply voltage rated value24 V• operating range factor control supply voltage rated value0.85• initial value0.85• initial value0.85• initial value0.85• initial value0.85• initial value1.6 W  |   | 5.9 kVA   |  |  |  |  |
| • up to 400 V for current peak value n=30 rated value2.4 kVA• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 500 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to<br>40 °C4 kVA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 50 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 50 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum250 1/h• at AC-3   |   |   |  |  |  |  |
| • up to 500 V for current peak value n=30 rated value3.1 kVA• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C4 kVA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/hro-load switching frequency10 000 1/h• at AC-3 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC  |   |   |  |  |  |  |
| • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       5         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at DC       10 000 1/h         • at AC-3 maximum       500 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at AC-3 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at AC-3 maximum       250 1/h         • at AC-4 maximum       24 V         • at AC-4 maximum       2   |   |   |  |  |  |  |
| short-time withstand current in cold operating state up to<br>40 °C         State with the serve the summer of the serve the summer of the summer of the summer of the serve the summer of the summer |   |   |  |  |  |  |
| 40 °C       imited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         imited to 5 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         imited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         imited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         imited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         object       10 000 1/h         object       10 000 1/h         operating frequency       10 000 1/h         e at AC-1 maximum       10000 1/h         e at AC-2 maximum       750 1/h         e at AC-3 maximum       750 1/h         e at AC-3 maximum       250 1/h         control circuit/ Control       250 1/h         Control circuit/ Control       250 1/h         control supply voltage at DC       260 1/h         e rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.85         e initial value       0.85         e initial value       1.85         design of the surge suppressor       suppressor diode  |   | 4 KVA   |  |  |  |  |
| • limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum <td></td> <td></td>   |   |   |  |  |  |  |
| • limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at DC10 000 1/hoperating frequency10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC-4 maximum0.85• rated value0.85• initial value0.85• full-scale value1.85• full-scale value1.85• full-scale value1.6 W  | <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>    | 155 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |  |
| • limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum260 1/h• at AC-4 maximum24 V• at AC-4 maximum0.85• rated value0.85• initial value0.85• full-scale value1.85• full-scale value1.85  | C C   |   |  |  |  |  |
| • limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at DC10 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC-4 maximum24 V• rated value0.85• initial value0.85• full-scale value1.85• full-scale value1.85• full-scale value1.6 W  | <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>   | 86 A; Use minimum cross-section acc. to AC-1 rated value  |  |  |  |  |
| • limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at DC10 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC-4 maximum24 V• rated value0.85• initial value0.85• full-scale value1.85• full-scale value1.85• full-scale value1.6 W  | -   | 66 A; Use minimum cross-section acc. to AC-1 rated value  |  |  |  |  |
| • at DC10 000 1/hoperating frequency  | <ul> <li>limited to 60 s switching at zero current maximum</li> </ul>   | 55 A; Use minimum cross-section acc. to AC-1 rated value  |  |  |  |  |
| operating frequencyI• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCControl supply voltage at DCPC• rated value24 V• rated value0.85• initial value0.85• full-scale value1.85• full-scale value1.6 W  | no-load switching frequency   |   |  |  |  |  |
| • at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/hControl circuit ControlDCcontrol supply voltage at DC• rated value• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.85• initial value0.85• full-scale value1.85design of the surge suppressorsuppressor diodeclosing power of magnet coil at DC1.6 W   | • at DC   | 10 000 1/h  |  |  |  |  |
| • at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDC• control supply voltage at DC<br>• rated valueDC• rated value24 V• perating range factor control supply voltage rated value of initial value0.85• full-scale value1.85• full-scale valuesuppressor diode• foll-scale value1.6 W   | operating frequency   |   |  |  |  |  |
| • at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCcontrol supply voltage at DCDC• rated value24 V• rated value24 V• initial value0.85• full-scale value1.85design of the surge suppressorsuppressor diodeclosing power of magnet coil at DC1.6 W  | • at AC-1 maximum   | 1 000 1/h   |  |  |  |  |
| • at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCcontrol supply voltage of the control supply voltageDC• rated value24 V• perating range factor control supply voltage rated value of<br>magnet coil at DC0.85• initial value0.85• full-scale value1.85design of the surge suppressorsuppressor diodeclosing power of magnet coil at DC1.6 W  | • at AC-2 maximum   | 750 1/h   |  |  |  |  |
| • at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V• rated value24 Voperating range factor control supply voltage rated value of<br>magnet coil at DC0.85• initial value0.85• full-scale value1.85design of the surge suppressorsuppressor diodeclosing power of magnet coil at DC1.6 W   | • at AC-3 maximum   | 750 1/h   |  |  |  |  |
| Control circuit/ Control         type of voltage of the control supply voltage       DC         control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.85         • initial value       1.85         design of the surge suppressor       suppressor diode         closing power of magnet coil at DC       1.6 W  | • at AC-3e maximum  | 750 1/h   |  |  |  |  |
| type of voltage of the control supply voltage       DC         control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.85         • initial value       0.85         • full-scale value       1.85         design of the surge suppressor       suppressor diode         closing power of magnet coil at DC       1.6 W   |   | 250 1/h   |  |  |  |  |
| control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.85         • initial value       0.85         • full-scale value       1.85         design of the surge suppressor       suppressor diode         closing power of magnet coil at DC       1.6 W  |   |   |  |  |  |  |
| • rated value     24 V       operating range factor control supply voltage rated value of magnet coil at DC     0.85       • initial value     0.85       • full-scale value     1.85       design of the surge suppressor     suppressor diode       closing power of magnet coil at DC     1.6 W  |   | DC  |  |  |  |  |
| operating range factor control supply voltage rated value of magnet coil at DC       0.85         • initial value       0.85         • full-scale value       1.85         design of the surge suppressor       suppressor diode         closing power of magnet coil at DC       1.6 W   |   |   |  |  |  |  |
| magnet coil at DC     0.85       • initial value     0.85       • full-scale value     1.85       design of the surge suppressor     suppressor diode       closing power of magnet coil at DC     1.6 W  |   | 24 V  |  |  |  |  |
| • initial value       0.85         • full-scale value       1.85         design of the surge suppressor       suppressor diode         closing power of magnet coil at DC       1.6 W   |   |   |  |  |  |  |
| full-scale value     1.85     design of the surge suppressor     suppressor diode     closing power of magnet coil at DC     1.6 W  | -   | 0.85  |  |  |  |  |
| design of the surge suppressor     suppressor diode       closing power of magnet coil at DC     1.6 W  |   |   |  |  |  |  |
| closing power of magnet coil at DC 1.6 W  |   |   |  |  |  |  |
|   |   |   |  |  |  |  |
|   | holding power of magnet coil at DC                                      | 1.6 W   |  |  |  |  |

| closing delay   | 05 400 mm  |  |  |  |
|---|--|--|--|--|
| • at DC   | 25 120 ms  |  |  |  |
| opening delay   | 5 - 20 ma  |  |  |  |
| • at DC   | 5 20 ms  |  |  |  |
| arcing time<br>control version of the switch operating mechanism                  | 10 15 ms<br>Standard A1 - A2   |  |  |  |
| Auxiliary circuit   | Stanuaru AT - Az   |  |  |  |
| number of NC contacts for auxiliary contacts instantaneous                        | 1  |  |  |  |
| contact   |  |  |  |  |
| operational current at AC-12 maximum  | 10 A   |  |  |  |
| operational current at AC-15  |  |  |  |  |
| <ul> <li>at 230 V rated value</li> </ul>  | 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  |  |  |  |  |
| <ul> <li>at 24 V rated value</li> </ul>   | 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  | 7.6 A  |  |  |  |
| • at 600 V rated value  | 9 A  |  |  |  |
| yielded mechanical performance [hp]   |  |  |  |  |
| <ul> <li>for single-phase AC motor</li> </ul>                                     |  |  |  |  |
| — at 110/120 V rated value  | 0.33 hp  |  |  |  |
| — at 230 V rated value  | 1 hp   |  |  |  |
| <ul> <li>for 3-phase AC motor</li> </ul>  |  |  |  |  |
| — at 200/208 V rated value  | 2 hp   |  |  |  |
| — at 220/230 V rated value  | 3 hp   |  |  |  |
| — at 460/480 V rated value  | 5 hp   |  |  |  |
| — at 575/600 V rated value  | 7.5 hp   |  |  |  |
| contact rating of auxiliary contacts according to UL                              | A600 / Q600  |  |  |  |
| Short-circuit protection  |  |  |  |  |
| design of the fuse link   |  |  |  |  |
| for short-circuit protection of the main circuit                                  |  |  |  |  |
| — with type of coordination 1 required  | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  |  |  |  |
| — with type of assignment 2 required  | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  |  |  |  |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> | gG: 10 A (500 V, 1 kA)   |  |  |  |
| Installation/ mounting/ dimensions  |  |  |  |  |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |  |  |  |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715   |  |  |  |
| side-by-side mounting   | Yes  |  |  |  |
| height  | 70 mm  |  |  |  |
| width   | 45 mm  |  |  |  |
| depth   | 73 mm  |  |  |  |
| •   |  |  |  |  |
| required spacing  |  |  |  |  |

| with side-by-side mounting  |  |  |  |  |
|---|--|--|--|--|
| — forwards  | 10 mm  |  |  |  |
| — upwards   | 10 mm  |  |  |  |
| — downwards   | 10 mm  |  |  |  |
| — at the side   | 0 mm   |  |  |  |
| <ul> <li>for grounded parts</li> </ul>  |  |  |  |  |
| — forwards  | 10 mm  |  |  |  |
| — upwards   | 10 mm  |  |  |  |
| — at the side   | 6 mm   |  |  |  |
| — downwards   | 10 mm  |  |  |  |
| <ul> <li>for live parts</li> </ul>  |  |  |  |  |
| — forwards  | 10 mm  |  |  |  |
| — upwards   | 10 mm  |  |  |  |
| — downwards   | 10 mm  |  |  |  |
| — at the side   | 6 mm   |  |  |  |
| Connections/ Terminals  |  |  |  |  |
| type of electrical connection   |  |  |  |  |
| <ul> <li>for main current circuit</li> </ul>  | spring-loaded terminals                          |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> </ul>   | spring-loaded terminals                          |  |  |  |
| <ul> <li>at contactor for auxiliary contacts</li> </ul>   | Spring-type terminals                            |  |  |  |
| <ul> <li>of magnet coil</li> </ul>  | Spring-type terminals                            |  |  |  |
| type of connectable conductor cross-sections for main contacts  |  |  |  |  |
| • solid   | 2x (0.5 4 mm²)                                   |  |  |  |
| <ul> <li>solid or stranded</li> </ul>   | 2x (0,5 4 mm²)                                   |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 2x (0.5 2.5 mm²)                                 |  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 2x (0.5 2.5 mm²)                                 |  |  |  |
| connectable conductor cross-section for main contacts   |  |  |  |  |
| • solid   | 0.5 4 mm <sup>2</sup>                            |  |  |  |
| • stranded  | 0.5 4 mm <sup>2</sup>                            |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 0.5 2.5 mm²                                      |  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 0.5 2.5 mm <sup>2</sup>                          |  |  |  |
| connectable conductor cross-section for auxiliary contacts  |  |  |  |  |
| <ul> <li>solid or stranded</li> </ul>   | 0.5 4 mm <sup>2</sup>                            |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 0.5 2.5 mm <sup>2</sup>                          |  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 0.5 2.5 mm <sup>2</sup>                          |  |  |  |
| type of connectable conductor cross-sections  |  |  |  |  |
| <ul> <li>for auxiliary contacts</li> </ul>  |  |  |  |  |
| — solid or stranded   | 2x (0,5 4 mm²)                                   |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 2x (0.5 2.5 mm²)                                 |  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 2x (0.5 2.5 mm²)                                 |  |  |  |
| <ul> <li>for AWG cables for auxiliary contacts</li> </ul>   | 2x (20 12)                                       |  |  |  |
| AWG number as coded connectable conductor cross   |  |  |  |  |
| section   | 20 12  |  |  |  |
| for main contacts     for auxiliance contacts   | 20 12<br>20 12                                   |  |  |  |
| for auxiliary contacts Safety related data  | 20 12  |  |  |  |
|   |  |  |  |  |
| product function  | Vec  |  |  |  |
| mirror contact according to IEC 60947-4-1   | Yes  |  |  |  |
| B10 value with high demand rate according to SN 31920   | 1 000 000  |  |  |  |
| proportion of dangerous failures  | 40 %   |  |  |  |
| with low demand rate according to SN 31920     with high demand rate according to SN 31920                | 40 %<br>73 %                                     |  |  |  |
| with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT  |  |  |  |
| T1 value for proof test interval or service life according to EC  | 20 a   |  |  |  |
| 61508   | 20 0   |  |  |  |
| protection class IP on the front according to IEC 60529   | IP20   |  |  |  |
| touch protection on the front according to IEC 60529  | finger-safe, for vertical contact from the front |  |  |  |
| suitability for use   |  |  |  |  |
| <ul> <li>safety-related switching OFF</li> </ul>  | Yes  |  |  |  |
| Certificates/ approvals   |  |  |  |  |
| General Product Approval  |  |  |  |  |
|   |  |  |  |  |

| SEA<br>CEA  | <u>Confirmation</u>   | CCC                   |                            | KC                                      | EHC   |
|---|---|-----------------------|----------------------------|---|---|
| EMC   | Functional<br>Safety/Safety of Ma-<br>chinery   | Declaration of Confor | mity                       | Test Certificates                       |   |
| RCM   | Type Examination Cer-<br>tificate   | CE<br>EG-Konf.        | UK<br>CA                   | Type Test Certific-<br>ates/Test Report | <u>Special Test Certific-</u><br><u>ate</u> |
| Marine / Shipping   |   |                       |                            |   |   |
| ABS   | BUREAU<br>VERITAS   |                       | Lloyd's<br>Register<br>Lis | PRS                                     | RINA  |
| Marine / Shipping   | other   |                       | Railway                    | Dangerous Good                          | Environment                                 |
| RMRS  | <u>Confirmation</u>   | UDE VDE               | Vibration and Shock        | Transport Information                   | Environmental Con-<br>firmations            |
| Further information   |   |                       |                            |   |   |
| Siemens has decided to exit the Russian market (see here).<br>https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business |   |                       |                            |   |   |
| Siemens is working of Please contact your lo  | Siemens is working on the renewal of the current EAC certificates.<br>Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). |                       |                            |   |   |
| Information on the pa<br>https://support.industry   | ackaging<br>y.siemens.com/cs/ww/en/vi   | <u>ew/109813875</u>   |                            |   |   |
|   | wnloadcenter (Catalogs, E<br>com/ic10   |                       |                            |   |   |

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-2SB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2SB42

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

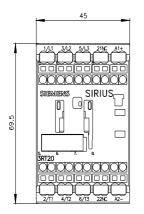
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2

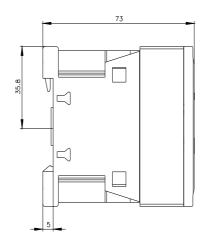
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-2SB42&lang=en

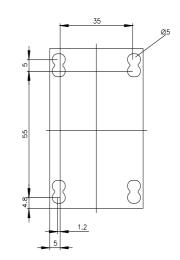
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2SB42/char

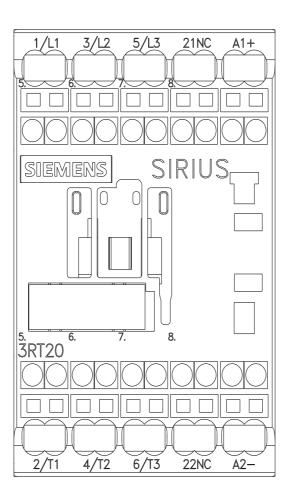
Further characteristics (e.g. electrical endurance, switching frequency)

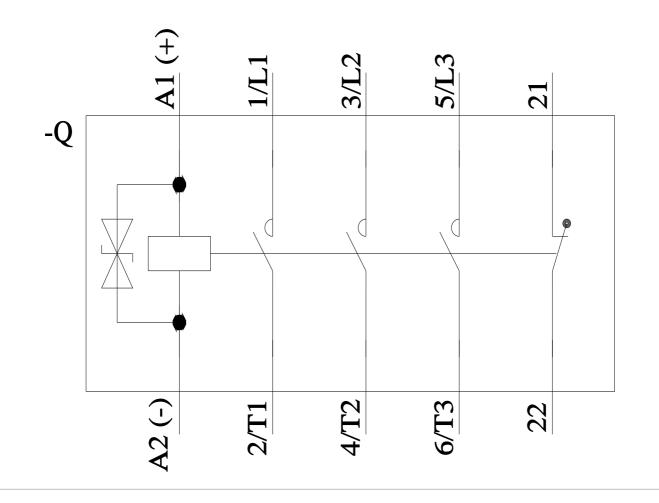
http://www.automation.siem ns.com/bilddb/index.aspx?view= %mlfb 











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2/10/2023 🖸