# **SIEMENS**

Data sheet 3RT1066-2NF36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Power contactor            |
| product type designation  | 3RT1                       |
| General technical data  |                            |
| size of contactor   | S10                        |
| product extension   |                            |
| <ul> <li>function module for communication</li> </ul>   | No                         |
| <ul><li>auxiliary switch</li></ul>  | Yes                        |
| power loss [W] for rated value of the current   |                            |
| <ul> <li>at AC in hot operating state</li> </ul>  | 66 W                       |
| <ul> <li>at AC in hot operating state per pole</li> </ul>   | 22 W                       |
| <ul> <li>without load current share typical</li> </ul>  | 3.4 W                      |
| insulation voltage  |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                  | 1 000 V                    |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated<br/>value</li> </ul>                         | 500 V                      |
| surge voltage resistance  |                            |
| <ul> <li>of main circuit rated value</li> </ul>   | 8 kV                       |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1       | 690 V                      |
| shock resistance at rectangular impulse   |                            |
| • at AC   | 8,5g / 5 ms, 4,2g / 10 ms  |
| • at DC   | 8,5g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at AC   | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC   | 13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (operating cycles)  |                            |
| <ul> <li>of contactor typical</li> </ul>  | 10 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul> | 5 000 000                  |
| <ul> <li>of the contactor with added auxiliary switch block<br/>typical</li> </ul>                          | 10 000 000                 |
| reference code according to IEC 81346-2   | Q                          |
| Substance Prohibitance (Date)   | 05/01/2012                 |
| 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  | 95 %                       |

maximum

| 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>                                   | 1 000 V        |
| <ul> <li>at AC-3e rated value maximum</li> </ul>                                  | 1 000 V        |
| operational current   |                |
| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C<br/>rated value</li> </ul> | 330 A          |
| • at AC-1   |                |
| <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>          | 330 A          |
| <ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>          | 300 A          |
| <ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>         | 150 A          |
| <ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>         | 150 A          |
| • at AC-3   |                |
| — at 400 V rated value  | 300 A          |
| — at 500 V rated value  | 300 A          |
| — at 690 V rated value  | 280 A          |
| — at 1000 V rated value   | 95 A           |
| at AC-3e  |                |
| ■ at AC-3e  — at 400 V rated value  | 300 A          |
| — at 400 V rated value  — at 500 V rated value                                    | 300 A<br>300 A |
|   | 95 A           |
| — at 1000 V rated value   |                |
| at AC-4 at 400 V rated value     at AC-5 a value (CO) V rated value               | 280 A          |
| at AC-5a up to 690 V rated value     at AC-5b up to 400 V rated value             | 290 A          |
| at AC-5b up to 400 V rated value  | 249 A          |
| at AC-6a     up to 230 V for current peak value n=20 rated                        | 292 A          |
| value — up to 400 V for current peak value n=20 rated                             | 292 A          |
| value — up to 500 V for current peak value n=20 rated value                       | 292 A          |
| up to 690 V for current peak value n=20 rated value                               | 280 A          |
| up to 1000 V for current peak value n=20 rated value                              | 95 A           |
| • at AC-6a  |                |
| — up to 230 V for current peak value n=30 rated value                             | 195 A          |
| — up to 400 V for current peak value n=30 rated value                             | 195 A          |
| up to 500 V for current peak value n=30 rated value                               | 195 A          |
| — up to 690 V for current peak value n=30 rated value                             | 195 A          |
| <ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>          | 95 A           |
| minimum cross-section in main circuit at maximum AC-1 rated value                 | 185 mm²        |
| operational current for approx. 200000 operating cycles at AC-4                   |                |
| • at 400 V rated value  | 125 A          |
| <ul> <li>at 690 V rated value</li> </ul>  | 115 A          |
| operational current   |                |
| at 1 current path at DC-1   |                |
| — at 24 V rated value   | 300 A          |
| — at 60 V rated value   | 300 A          |
| — at 110 V rated value  | 33 A           |
| — at 220 V rated value  | 3.8 A          |
| — at 440 V rated value  | 0.9 A          |
| — at 600 V rated value  | 0.6 A          |
| with 2 current paths in series at DC-1  |                |
| - with 2 current paths in series at DC-1  |                |

|   | — at 60 V rated value   | 300 A       |
|---|---|-------------|
|   |   |             |
|   |   |             |
| • with 3 current paths in series at DC-1 — at 24 V rated value — at 10 V rated value — at 120 V rated value — at 220 V rated value — at 440 V rated value — at 50 V rated value — at 60 V rated value           |   |             |
|   |   | 2 A         |
|   | •   |             |
|   |   |             |
|   |   |             |
|   |   |             |
| at 500 V rated value  |   |             |
| ■ at 1 current path at DC-3 at DC-5  — at 24 V rated value — at 460 V rated value — at 460 V rated value — at 460 V rated value — at 600           |   |             |
|   |   | 5.2 A       |
|   | -   | 300 A       |
|   |   |             |
| at 440 V rated value at 800 V rated value at 800 V rated value at 110 V rated value at 120 V rated value at 220 V rated value at 220 V rated value at 240 V rated value  |   |             |
| at 800 V rated value  with 2 current paths in series at DC-3 at DC-5  at 124 V rated value  at 100 V rated value  at 100 V rated value  at 220 V rated value  at 220 V rated value  at 600 V rated value  at 220 V rated value  at 220 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 230 V rated value  at 230 V rated value  at 600 V rated value  at 230 V rated value  at 1000 V rated value  at 230 V rated value   |   |             |
| - with 2 current paths in series at DC-3  |   |             |
|   |   | 0.12071     |
|   |   | 300 A       |
|   |   |             |
|   |   |             |
| • with 3 current paths in series at DC-3 at DC-5  — at 24 V a rated value — at 60 V rated value — at 60 V rated value — at 120 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 400 V rated value — at 600 V rated value — at 600 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at 600 V rated value — at 1000 V rated value — at 200 V for current peak value n=20 rated value — at 1000 V for current peak value n=20 rated value — up to 400 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 5           |   |             |
| • with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 100 V rated value — at 100 V rated value — at 100 V rated value — at 690 V rated value — at 100 V rated value — at 100 V rated value — at 100 V rated value — 200 kW — 132 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for           | — at 440 V rated value  | 0.65 A      |
| at 24 V rated value at 60 V rated value at 1110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at 500 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value at 230 V rated value at 230 V rated value at 400 V rated value at 500 V rated value at 400 V rated value at 500 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 500 V rated value   | — at 600 V rated value  | 0.37 A      |
| at 100 V rated value 300 A at 220 V rated value 300 A at 220 V rated value 1.4 A at 600 V rated value 0.75 A  Operating power  •- at AC-3  at 230 V rated value 90 kW at 600 V rated value 160 kW at 600 V rated value 200 kW at 690 V rated value 250 kW at 690 V rated value 250 kW at 1000 V rated value 250 kW at 1000 V rated value 250 kW at 400 V rated value 250 kW at 400 V rated value 312 kW  •- at 400 V rated value 300 kW at 1000 V rated value 300 kW at 400 V rated value 300 kW at 900 kW at 900 kW  | <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |             |
| - at 110 V rated value  | — at 24 V rated value   | 300 A       |
| - at 220 V rated value  | — at 60 V rated value   | 300 A       |
| at 440 V rated value at 600 V rated value 0.75 A  operating power  • at AC-3  at 230 V rated value 90 kW  at 400 V rated value 200 kW  at 690 V rated value 250 kW  at 1000 V rated value 132 kW  • at AC-3e  at 230 V rated value 90 kW  at 400 V rated value 150 kW  at 400 V rated value 250 kW  at 1000 V rated value 90 kW  at 400 V rated value 150 kW  at 400 V rated value 200 kW  at 400 V rated value 150 kW  at 1000 V rated value 150 kW  at 400 V rated value 150 kW  at 400 V rated value 150 kW  at 500 V rated value 150 kW  at 90 kW  at 1000 V rated value 150 kW  at 90 kW  at 90 kW  at 1000 V rated value 150 kW  at 90 kW  at 1000 V rated value 150 kW  at 90 kW  at 230 V rated value 150 kW  | — at 110 V rated value  | 300 A       |
| operating power  ■ at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value — at 400 V rated value — at 1000 V rated value — at 400 V rated value — at 1000 V rated value — at 400 V rotade value — at 690 V rotade value — at 690 V roturent peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current pea           | — at 220 V rated value  | 300 A       |
| • at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 400 V rated value — at 500 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value   | — at 440 V rated value  | 1.4 A       |
| at AC-3  at 230 V rated value  at 690 V rated value  at 690 V rated value  at 690 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at 400 V rated value  at 400 V rated value  at 400 V rated value  at 500 V rated value  at 500 V rated value  at 690 V rated value  aup to 500 V for current peak value n=20 rated value  aup to 500 V for current peak value n=20 rated value  aup to 1000 V for current peak value n=20 rated value  aup to 1000 V for current peak value n=20 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 690 V for current peak value n=30 rated value  aup to 690 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated value  aup to 500 V for current peak value n=30 rated val           | — at 600 V rated value  | 0.75 A      |
| - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 1000 V rated value - at 200 kW - at 1000 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 690 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n          | operating power   |             |
| - at 400 V rated value - at 500 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 1000 V rated value - at 400 V rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690          | • at AC-3   |             |
| - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 1000 V rated value - at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value   | — at 230 V rated value  | 90 kW       |
| - at 690 V rated value - at 1000 V rated value  • at AC-3e  - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value - at 400 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value   |   |             |
| - at 1000 V rated value  • at AC-3e  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value 200 kW — at 1000 V rated value 320 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value   |   |             |
| at AC-3e — at 230 V rated value — at 400 V rated value — at 1000 V rated value — at 1000 V rated value 200 kW  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value at 690 V rated value operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value  |   |             |
| - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 1000 V rated value 200 kW 132 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  |   | 132 kW      |
| - at 400 V rated value - at 500 V rated value 200 kW - at 1000 V rated value 132 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value   |   | 00.114      |
| - at 500 V rated value - at 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  |   |             |
| operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value   |   |             |
| operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value  |   |             |
| at AC-4  • at 400 V rated value • at 690 V rated value  • at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value   |   | IJZ NYV     |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> <li>aup to 1000 V for current peak value n=30 rated value</li> </ul>  |   |             |
| at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     up to 1000 V for current peak value n=20 rated value     up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     up to 1000 V for current peak value n=30 rated value     sup to 690 V for current peak value n=30 rated value     value  short-time withstand current in cold operating state   |   | 71 kW       |
| operating apparent power at AC-6a     oup to 230 V for current peak value n=20 rated value     oup to 400 V for current peak value n=20 rated value     oup to 500 V for current peak value n=20 rated value     oup to 690 V for current peak value n=20 rated value     oup to 1000 V for current peak value n=20 rated value     operating apparent power at AC-6a     oup to 230 V for current peak value n=30 rated value     oup to 400 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup to 690 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 690 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value     oup to 1000 V for current peak value n=30 rated value  |   |             |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 VA</li> <li>1000 VA</li> <li>160 000 VA</li> <li>130 000 VA</li> <li>160 000 VA</li> <li>160</li></ul> | operating apparent power at AC-6a                                       |             |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>  |   | 110 000 kVA |
| <ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 200 V for current peak value n=30 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>  | • up to 400 V for current peak value n=20 rated value                   | 200 000 VA  |
| <ul> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>   | <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul> | 250 000 VA  |
| value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 1000 V for current peak value n=30 rated value  • up to 1000 V for current peak value n=30 rated value  short-time withstand current in cold operating state  | <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul> | 330 000 VA  |
| operating apparent power at AC-6a     o up to 230 V for current peak value n=30 rated value     o up to 400 V for current peak value n=30 rated value     o up to 500 V for current peak value n=30 rated value     o up to 690 V for current peak value n=30 rated value     o up to 1000 V for current peak value n=30 rated value     o up to 1000 V for current peak value n=30 rated value     short-time withstand current in cold operating state  |   | 160 000 VA  |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>  |   |             |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>   |   |             |
| <ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>  |   |             |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>   |   |             |
| <ul> <li>up to 1000 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>  |   |             |
| value short-time withstand current in cold operating state  |   |             |
| short-time withstand current in cold operating state  |   | 100 000 VA  |
|   |   |             |
|   |   |             |

| limited to 1 s switching at zero current maximum                       | 5 524 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |
|--|---|--|--|--|
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>   | 4 579 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>  | 3 153 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul>  | 1 883 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |
| limited to 60 s switching at zero current maximum                      | 1 445 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |
| no-load switching frequency  | 4.000.4%  |  |  |  |
| • at AC  | 1 000 1/h   |  |  |  |
| • at DC  | 1 000 1/h   |  |  |  |
| operating frequency  |   |  |  |  |
| • at AC-1 maximum  | 750 1/h   |  |  |  |
| • at AC-2 maximum  | 250 1/h   |  |  |  |
| • at AC-3 maximum  | 500 1/h   |  |  |  |
| • at AC-3e maximum   | 500 1/h   |  |  |  |
| • at AC-4 maximum  | 130 1/h   |  |  |  |
| Control circuit/ Control   |   |  |  |  |
| type of voltage of the control supply voltage                          | AC/DC   |  |  |  |
| control supply voltage at AC   |   |  |  |  |
| at 50 Hz rated value   | 96 127 V  |  |  |  |
| at 60 Hz rated value   | 96 127 V  |  |  |  |
| control supply voltage at DC   | 00 4071/  |  |  |  |
| • rated value  | 96 127 V  |  |  |  |
| type of PLC-control input according to IEC 60947-1                     | Type 2  |  |  |  |
| consumed current at PLC-control input according to IEC 60947-1 maximum | 20 mA   |  |  |  |
| voltage at PLC-control input rated value                               | 24 V  |  |  |  |
| operating range factor of the voltage at PLC-control                   | 0.8 1.1   |  |  |  |
| input  |   |  |  |  |
| operating range factor control supply voltage rated                    |   |  |  |  |
| value of magnet coil at DC   |   |  |  |  |
| initial value  | 0.8   |  |  |  |
| full-scale value   | 1.1   |  |  |  |
| operating range factor control supply voltage rated                    |   |  |  |  |
| value of magnet coil at AC  • at 50 Hz                                 | 0.8 1.1   |  |  |  |
| • at 60 Hz   | 0.8 1.1   |  |  |  |
| design of the surge suppressor   | with varistor   |  |  |  |
| apparent pick-up power of magnet coil at AC                            | With Valistoi   |  |  |  |
| • at 50 Hz   | 530 VA  |  |  |  |
| • at 60 Hz   | 530 VA  |  |  |  |
| inductive power factor with closing power of the coil                  |   |  |  |  |
| • at 50 Hz   | 0.8   |  |  |  |
| • at 60 Hz   | 0.8   |  |  |  |
| apparent holding power of magnet coil at AC                            |   |  |  |  |
| ● at 50 Hz   | 8.5 VA  |  |  |  |
| ● at 60 Hz   | 8.5 VA  |  |  |  |
| inductive power factor with the holding power of the                   |   |  |  |  |
| coil   |   |  |  |  |
| • at 50 Hz   | 0.4   |  |  |  |
| • at 60 Hz   | 0.4   |  |  |  |
| closing power of magnet coil at DC                                     | 580 W   |  |  |  |
| holding power of magnet coil at DC                                     | 3.4 W   |  |  |  |
| closing delay  | 45 00 mg  |  |  |  |
| • at AC  | 45 80 ms  |  |  |  |
| at DC     appring delay  | 45 80 ms  |  |  |  |
| opening delay  • at AC   | 80 100 ms   |  |  |  |
| • at AC • at DC  | 80 100 ms   |  |  |  |
|  | 80 100 ms<br>10 15 ms                                       |  |  |  |
| arcing time control version of the switch operating mechanism          | PLC-IN or Standard A1 - A2 (adjustable)                     |  |  |  |
|  | 1 20 III of otalidard AT - A2 (adjustable)                  |  |  |  |
| Auxiliary circuit  | 2   |  |  |  |
| number of NC contacts for auxiliary contacts instantaneous contact     | 2   |  |  |  |
| number of NO contacts for auxiliary contacts                           | 2   |  |  |  |
| instantaneous contact  |   |  |  |  |
| operational current at AC-12 maximum                                   | 10 A  |  |  |  |
|  |   |  |  |  |

| operational current at AC-15   |   |   |  |  |  |
|--|---|---|--|--|--|
| ## ## ## ## ## ## ## ## ## ## ## ## ##   | operational current at AC-15  |   |  |  |  |
| a   150 V rited value  |   |   |  |  |  |
|  |   |   |  |  |  |
| operational current at DC-12         1.0 A Final de value         6.A           • at 68 V rated value         6.A           • at 11 10 V rated value         6.A           • at 11 10 V rated value         3.A           • at 12 V rated value         1.A           • 22 V rated value         0.15 A           • poparational current at DC-13         1.A           • 12 24 V rated value         1.A           • 12 42 V rated value         2.A           • 12 60 V rated value         2.A           • 12 60 V rated value         2.A           • 12 70 V rated value         0.5 A           • 12 70 V rated value         0.5 A           • 12 70 V rated value         0.1 A           • 12 80 V rated value         2.9 A           • 12 90 V rated value         2.9 A           • 12 90 V rated value         2.9 A           • 12 90 V rated value         2.0 A           • 12 90 V rated value         2.0 A           • 12 90 V rated value         2.0 A           • 12 90 V rated value         2  |   |   |  |  |  |
| * at 24 V rated value  |   | 1 A   |  |  |  |
|  | •   |   |  |  |  |
|  |   |   |  |  |  |
|  |   |   |  |  |  |
| e at 126 V rated value   |   |   |  |  |  |
| e al 220 V rated value   |   |   |  |  |  |
| • at 600 V rated value operational current at DC-13  • at 24 V rated value • at 46 V rated value • at 46 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • ontac reliability of auxiliary contacts  U/CSA rated value • at 680 V rated value • at 690 V rated value • at 22020 V rated value • at 22020 V rated value • at 250 V rated value • at 250 V rated value • at 250 V rated value • at 575600 V rated value • at 675600 V rated value • with type of assignment 2 required • with type of assignment 2 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards • or or younded parts • forwards • or or younded • or or younded parts • forwards • or or younded • for younded parts • forwards • or or younded • for younded • or or younded • for younded • or or younded • or or younded • or or younded • or younded • or or younded • or or younded • or or younded • or or y |   |   |  |  |  |
| a 12 4 V rated value   |   |   |  |  |  |
|  |   | 0.15 A  |  |  |  |
| • at 48 V rated value  |   |   |  |  |  |
|  |   |   |  |  |  |
| • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 260 V rated value • at 600 V rated value • at 220/230 V rated value • at 75/600 V rated value • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • with signer of the fuse link  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tillable to the front and back screw fixing  visit side-by-side mounting • with side-by |   |   |  |  |  |
|  |   |   |  |  |  |
| • at 220 V rated value   |   |   |  |  |  |
| • at 600 V rated value   |   |   |  |  |  |
| DLICSA ratings   |   |   |  |  |  |
| full-load current (FLA) for 3-phase AC motor         at 480 V rated value         302 A           • at 480 V rated value         289 A           • for 3-phase AC motor         100 hp           • for 3-phase AC motor         100 hp           — at 200/280 V rated value         125 hp           — at 200/280 V rated value         250 hp           — at 457/5/00 V rated value         250 hp           — at 575/500 V rated value         300 hp           — contact rating of auxillary contacts according to UL         A600 / G600           Short-circuit protection           design of the fuse link           • for short-circuit protection of the main circuit         gG: 500 A (690 V, 100 kA)           — with type of assignment 2 required         gG: 400 A (690 V, 100 kA)           — with type of assignment 2 required         gG: 400 A (690 V, 100 kA)           — for short-circuit protection of the auxiliary switch required         gG: 400 A (690 V, 100 kA)           — for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)           • for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)           • for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)           • for short-circuit protection of the auxiliary switch required         gG: 400 A (6   |   |   |  |  |  |
| full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value • at 200/208 V rated value  - at 220/230 V rated value  - at 220/230 V rated value  - at 480/480 V rated value  - at 575/600 V rated value  - at 675/600 V rated value  - with fyte of coordination of the main circuit  - with type of coordination 1 required  - with type of assignment 2 required  - with type of assignment 2 required  - with type of coordination of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - with type of coordination of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - with type of coordination of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - with type of coordination of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - with type of assignment 2 required  - with type of coordination of the auxiliary switch  - with type of coordination of the auxiliary switch  - for short-circuit protection of the main circuit  - with type of (690 V, 100 kA)  - gG: 400 A (690 V, 100 kA |   | 1 faulty switching per 100 million (17 V, 1 mA)   |  |  |  |
| • at 480 V rated value • at 600 V rated value vielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/330 V rated value — at 480/480 V rated value — at 575/600 V rated value  — or the fouse link • for short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height vidth  • side-by-side mounting • with side-by-side mounting — forwards — upwards — downwards — the side — downwards — at the side — downwards — upwards — the side — downwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — to live parts — for live parts — for live parts — for live parts — forwards — upwards — to live parts — forwards — upwards — to live parts — forwards — upwards — upwards — to live parts — for live parts — forwards — upwards — upwards — upwards — upwards — to live parts — forwards — upwards — upwards — upwards — upwards — to live parts — forwards — upwards — upwards — upwards — upwards — to live parts — forwards — upwards — upwa |   |   |  |  |  |
| • at 600 V rated value   289 A   |   |   |  |  |  |
| yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/230 V rated value — at 220/230 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of sassignment 2 required — with type of sassignment 2 required — with type of sassignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  sufface +/ 22.5° tiltable to the front and back screw fixing  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • ownwards — upwards — 10 mm  • at the side — downwards — at the side — downwards — upwards — upwards — upwards — ownwards — ownwa |   |   |  |  |  |
| • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 480/480 V rated value — at 575/600 V rated value — at 20/230 V rated value — at 20/230 V rated value — at 575/600 V rated value — at 680 V rated value — at 575/600 V rated value — at 680 | <ul><li>at 600 V rated value</li></ul>  | 289 A   |  |  |  |
| - at 220/208 V rated value - at 220/230 V rated value 125 hp - at 420/230 V rated value 250 hp - at 460/480 V rated value 300 hp - at 575/600 V rated value 300 hp - A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotat |   |   |  |  |  |
| - at 220/230 V rated value - at 460/480 V rated value 250 hp 300 hp contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - with of the short-circuit protection of the auxiliary switch required  * for short-circuit protection of the auxiliary switch required  * for short-circuit protection of the auxiliary switch required  * soft of short-circuit protection of the auxiliary switch required  * soft of short-circuit protection of the auxiliary switch required  * soft of short-circuit protection of the auxiliary switch required  * side-by-side mounting/ dimensions  * with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  * side-by-side mounting  * side-by-side mounting  * side-by-side mounting  * side-by-side mounting  * with side-by-side mounting  * with side-by-side mounting  - forwards - upwards - downwards - at the side - on mm  * for grounded parts - forwards - at the side - on mm - at the side - on mm - odownwards - at the side - on mm - odownwards - of prowards - of pr |   |   |  |  |  |
| - at 460/480 V rated value   |   |   |  |  |  |
| - at 575/600 V rated value 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  - with type of assignment 2 required gG: 500 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tillable to the front and back screw fixing  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • forwards  - upwards  - downwards  - at the side  • for grounded parts  - forwards  - upwards  - upwards  - odownwards  - odownwards  - upwards  - of orwards  - upwards  - of orwards  - upwards  - forwards  - upwards  • for live parts  - forwards  - forwards  - upwards  - forwards  - for |   |   |  |  |  |
| contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  side-by-side mounting  • side-by-side mounting  • with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rota |   |   |  |  |  |
| Short-circuit protection   design of the fuse link   |   | 300 hp  |  |  |  |
| design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required gG: 500 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  surface +/- 22.5" tiltable to the front and back screw fixing  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — upwards — upwards — upwards — odwnwards — upwards — odwnwards — upwards — odwnwards — upwards — odwnwards — odwnwards — odwnwards — of orwards — upwards — of orwards — upwards — of orwards — upwards — ownwards — |   |   |  |  |  |
| • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing  Yes height vidth depth required spacing  • with side-by-side mounting — forwards — upwards — at the side — for grounded parts — forwards — upwards — at the side — downwards — forwards — upwards | contact rating of auxiliary contacts according to UL  |   |  |  |  |
| - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - of required - of required - of short-circuit protection of the auxiliary switch required - of short-circuit protection of the auxiliary switch required - of required - of short-circuit protection of the auxiliary switch required - of short-circuit protection of the auxiliary switch required - of short-circuit protection of the auxiliary switch required short shor | contact rating of auxiliary contacts according to UL Short-circuit protection   |   |  |  |  |
| - with type of assignment 2 required of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method of side-by-side mounting  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  height width depth 210 mm  vidth depth required spacing  with side-by-side mounting  - forwards - upwards - downwards - at the side of or grounded parts - forwards - upwards - at the side - downwards - for live parts - forwards - upwards - upwar | contact rating of auxiliary contacts according to UL Short-circuit protection   |   |  |  |  |
| • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     • side-by-side mounting      • side-by-side mounting      • with side-by-side mounting      • with side-by-side mounting      • for grounded parts     • for grounded parts     • for wards     • upwards     • at the side     • downwards     • for live parts     • for live parts     • forwards     • forwards     • forwards     • forwards     • for prowards     • forwards     • forwar      | contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link   |   |  |  |  |
| for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing  side-by-side mounting  iside-by-side mounting surface +/-90° rotatable, with vertical mounting +/-90° rotatable, with vertical mounting +/-90° rotatable, with vertical mounting +/-90° rot      | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required   | A600 / Q600<br>gG: 500 A (690 V, 100 kA)  |  |  |  |
| Installation/ mounting/ dimensions  mounting position  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required   | GG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415  |  |  |  |
| mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting +/-90° rotatable, w  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required   | GG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  |  |  |  |
| mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  • side-by-side mounting  height  width  4210 mm  width  445 mm  depth  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side  • for wards — upwards — of mm  • for grounded parts — forwards — upwards — at the side  • for grounded parts — forwards — upwards — to mm  • for live parts — forwards — upwards  • for live parts — forwards — upwards — upwards  • for live parts — forwards — upwards — upwards — upwards  • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — upwards — to mm  • for live parts — forwards — upwards — upwa  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch   | GG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  |  |  |  |
| surface +/- 22.5° tiltable to the front and back screw fixing  • side-by-side mounting  height width depth 145 mm depth required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — 10 mm  • for grounded parts — forwards — at the side — downwards — in mm — at the side — downwards — in mm — at the side — of or grounded parts — forwards — in mm — at the side — downwards — at the side — downwards — at the side — downwards — for live parts — forwards — forwards — forwards — forwards — upwards — upwards — in mm — at the side — downwards — upwards — the side — downwards — upwards — in mm — at the side — downwards — the side — downwards — upwards — upwards — in mm — the for live parts — forwards — upwards — | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  | GG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  |  |  |  |
| fastening method   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | gG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)  |  |  |  |
| iside-by-side mounting     height     width     depth     depth     required spacing     • with side-by-side mounting     — forwards     — upwards     — downwards     — at the side     • for grounded parts     — forwards     — upwards     — to forwards     — downwards     — forwards     — forwards     — forwards     — forwards     — upwards     — upwards     — at the side     — forwards     — upwards     — upwards     — at the side     — forwards     — at the side     — downwards     — at the side     — forwards     — at the side     — downwards     — downwards     • for live parts     — forwards     — upwards     10 mm  • for live parts     — forwards     — upwards     10 mm   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | gG: 500 A (690 V, 100 kA)<br>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)  |  |  |  |
| height 210 mm width 145 mm depth 202 mm required spacing  • with side-by-side mounting  — forwards 20 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm  • for grounded parts — forwards 20 mm — at the side 10 mm — at the side 10 mm — of or grounded parts — forwards 10 mm — at the side 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 10 mm  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  |  |  |  |
| width depth 202 mm  required spacing  • with side-by-side mounting  — forwards 20 mm  — upwards 10 mm  — downwards 10 mm  — at the side 0 mm  • for grounded parts  — forwards 20 mm  — towards 10 mm  — at the side 10 mm  — at the side 10 mm  — upwards 10 mm  — at the side 10 mm  — at the side 10 mm  — at the side 20 mm  — upwards 10 mm  • for live parts  — forwards 20 mm  — upwards 10 mm  • for live parts  — forwards 20 mm  — upwards 10 mm   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing   |  |  |  |
| depth required spacing         202 mm           ● with side-by-side mounting         0 mm           — forwards         20 mm           — upwards         10 mm           — downwards         10 mm           — at the side         0 mm           — for grounded parts         20 mm           — upwards         10 mm           — at the side         10 mm           — downwards         10 mm           ● for live parts         20 mm           — forwards         20 mm           — upwards         10 mm   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes   |  |  |  |
| required spacing  with side-by-side mounting  — forwards — upwards — downwards — at the side of or grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — of the side — o | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm  |  |  |  |
| <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>10 mm</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>for live parts</li> <li>upwards</li> <li>10 mm</li> </ul>  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm   |  |  |  |
| <ul> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— downwards</li> <li>— at the side</li> <li>— for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>■ for live parts</li> <li>— forwards</li> <li>— forwards</li> <li>— upwards</li> <li>— forwards</li> <li>— upwards</li> <li>— 10 mm</li> <li>— 10 mm</li> </ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm   |  |  |  |
| <ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>downwards</li> <li>for live parts</li> <li>upwards</li> <li>20 mm</li> <li>10 mm</li> <li>10 mm</li> </ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm   |  |  |  |
| <ul> <li>downwards</li> <li>at the side</li> <li>o mm</li> <li>o for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>o for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>downwards</li> <li>o for live parts</li> <li>upwards</li> <li>20 mm</li> <li>10 mm</li> </ul>  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  |  |  |  |
| <ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>10 mm</li> <li>20 mm</li> <li>upwards</li> <li>10 mm</li> </ul>  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  |  |  |  |
| — forwards       20 mm         — upwards       10 mm         — at the side       10 mm         — downwards       10 mm         • for live parts       20 mm         — upwards       10 mm  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  — forwards  — upwards   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  |  |  |  |
| — forwards       20 mm         — upwards       10 mm         — at the side       10 mm         — downwards       10 mm         • for live parts       20 mm         — upwards       10 mm  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm                                      |  |  |  |
| <ul> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — downwards  — at the side  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm                                      |  |  |  |
| <ul> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  20 mm 10 mm 10 mm 0 mm                          |  |  |  |
| <ul> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>20 mm</li> <li>10 mm</li> </ul>  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  20 mm 10 mm 0 mm 0 mm                           |  |  |  |
| <ul><li>forwards</li><li>upwards</li><li>20 mm</li><li>10 mm</li></ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — torwards  — upwards  — upwards  | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 0 mm                                 |  |  |  |
| <ul><li>forwards</li><li>upwards</li><li>20 mm</li><li>10 mm</li></ul>   | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — upwards  — at the side   | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm              |  |  |  |
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| — downwards 10 mm  | contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — at the side  — downwards  — at the side  — downwards  — at the side  — downwards  — at the side  — for live parts                       | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm  20 mm 10 mm |  |  |  |
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- at the side 10 mm **Connections/ Terminals** type of electrical connection • for main current circuit Connection bar • for auxiliary and control circuit spring-loaded terminals · at contactor for auxiliary contacts Spring-type terminals · of magnet coil Spring-type terminals width of connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1 connectable conductor cross-section for main contacts stranded 70 ... 240 mm<sup>2</sup> connectable conductor cross-section for auxiliary contacts solid or stranded 0.25 ... 2.5 mm<sup>2</sup> • finely stranded with core end processing 0.25 ... 1.5 mm<sup>2</sup> • finely stranded without core end processing 0.25 ... 2.5 mm<sup>2</sup> type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.25 ... 2.5 mm²) - solid or stranded 2x (0,25 ... 2,5 mm<sup>2</sup>) - finely stranded with core end processing 2x (0.25 ... 1.5 mm²) - finely stranded without core end processing 2x (0.25 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (24 ... 14) AWG number as coded connectable conductor cross section · for auxiliary contacts 24 ... 14

# Safety related data

#### product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-5-1

B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to

IEC 61508 protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No

1 000 000

20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

#### Certificates/ approvals

## **General Product Approval**



Confirmation





KC



**Functional EMC** Safety/Safety of **Declaration of Conformity Test Certificates** Machinery



**Type Examination Certificate** 





Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>

Marine / Shipping other













| other        |              |                      | Railway             |                          |
|--------------|--------------|----------------------|---------------------|--------------------------|
| Confirmation | Confirmation | <u>Miscellaneous</u> | Vibration and Shock | Special Test Certificate |

## **Further information**

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-2NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-2NF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2NF36

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

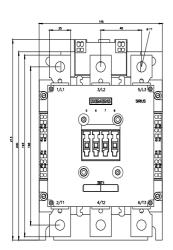
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-2NF36&lang=en

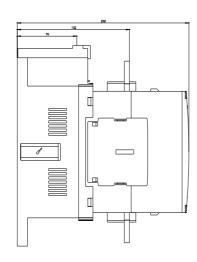
Characteristic: Tripping characteristics, I2t, Let-through current

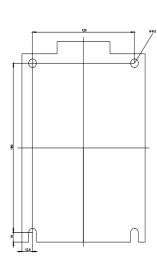
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2NF36/char

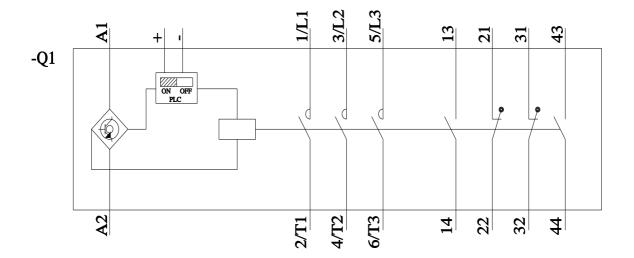
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-2NF36&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸