## **SIEMENS**

Data sheet 3RT2027-1AP00



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0  $\,$ 

| product brand name   | SIRIUS                     |
|--|----------------------------|
| product designation  | Power contactor            |
| product type designation   | 3RT2                       |
| General technical data   |                            |
| size of contactor  | S0                         |
| product extension  |                            |
| <ul> <li>function module for communication</li> </ul>  | No                         |
| auxiliary switch   | Yes                        |
| power loss [W] for rated value of the current  |                            |
| <ul> <li>at AC in hot operating state</li> </ul>   | 6.3 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>  | 2.3 W                      |
| without load current share typical   | 2.5 W                      |
| insulation voltage   |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                   | 690 V                      |
| of auxiliary circuit with degree of pollution 3 rated value  | 690 V                      |
| surge voltage resistance   |                            |
| <ul> <li>of main circuit rated value</li> </ul>  | 6 kV                       |
| of auxiliary circuit rated value   | 6 kV                       |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse  |                            |
| • at AC  | 8,3g / 5 ms, 5,3g / 10 ms  |
| shock resistance with sine pulse   |                            |
| • at AC  | 13,5g / 5 ms, 8,3g / 10 ms |
| mechanical service life (operating cycles)   |                            |
| of contactor typical   | 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 typical</li> </ul>                               | 10 000 000                 |
| reference code according to IEC 81346-2  | Q                          |
| Substance Prohibitance (Date)  | 10/01/2009                 |
| Ambient conditions   |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| ambient temperature  |                            |
| during operation   | -25 +60 °C                 |
| during storage   | -55 +80 °C                 |
| relative humidity minimum  | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum   | 95 %                       |
| Main circuit   |                            |
| number of poles for main current circuit   | 3                          |

|  | 3   |
|--|---|
| operating voltage  |   |
| <ul> <li>at AC-3 rated value maximum</li> </ul>  | 690 V   |
| at AC-3e rated value maximum   | 690 V   |
| operational current  |   |
| • at AC-1 at 400 V at ambient temperature 40 °C rated  | 50 A  |
| value  |   |
| • at AC-1  |   |
| <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>   | 50 A  |
| — up to 690 V at ambient temperature 60 °C rated   | 42 A  |
| value  |   |
| • at AC-3  |   |
| — at 400 V rated value   | 32 A  |
| — at 500 V rated value   | 32 A  |
| — at 690 V rated value   | 21 A  |
| • at AC-3e   |   |
| — at 400 V rated value   | 32 A  |
| — at 500 V rated value   | 32 A  |
| — at 690 V rated value   | 21 A  |
| • at AC-4 at 400 V rated value   | 22 A  |
| • at AC-5a up to 690 V rated value   | 44 A  |
| • at AC-5b up to 400 V rated value   | 26.5 A  |
| • at AC-6a   |   |
| — up to 230 V for current peak value n=20 rated value  | 30.8 A  |
| — up to 400 V for current peak value n=20 rated value  | 30.8 A  |
| — up to 500 V for current peak value n=20 rated value  | 27 A  |
| — up to 690 V for current peak value n=20 rated value  | 21 A  |
| • at AC-6a   |   |
| — up to 230 V for current peak value n=30 rated value  | 20.5 A  |
| — up to 400 V for current peak value n=30 rated value  | 20.5 A  |
| — up to 500 V for current peak value n=30 rated value  | 18 A  |
| — up to 690 V for current peak value n=30 rated value  | 18 A  |
| minimum cross-section in main circuit at maximum AC-1 rated  |   |
|  | 10 mm²  |
| value  | 10 mm <sup>2</sup>  |
|  | 10 mm²  |
| value operational current for approx. 200000 operating cycles at   | 10 mm²  |
| value operational current for approx. 200000 operating cycles at AC-4  |   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  | 12 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value   | 12 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current   | 12 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1   | 12 A<br>12 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value   | 12 A<br>12 A<br>35 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value  | 12 A<br>12 A<br>35 A<br>20 A  |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value   | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 22 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 600 V rated value  — at 600 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A   |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current  • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 24 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  | 12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 220 V rated value  — at 600 V rated value  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value   | 12 A<br>12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>35 A<br>35 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 600 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 600 V rated value  — at 440 V rated value  — at 600 V rated value   | 12 A<br>12 A<br>12 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 A<br>38 A<br>39 A<br>30 A<br>30 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 220 V rated value  — at 220 V rated value  — at 24 V rated value  — at 240 V rated value  — at 440 V rated value  — at 600 V rated value   | 12 A<br>12 A<br>12 A<br>35 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 |
| poperational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  • at 110 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 600 V rated value  — at 440 V rated value  — at 220 V rated value  — at 220 V rated value  — at 220 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  | 12 A<br>12 A<br>12 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 60 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  — at 110 V rated value   | 12 A<br>12 A<br>12 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 20 V rated value | 12 A<br>12 A<br>12 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  — at 60 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  — at 110 V rated value   | 12 A<br>12 A<br>12 A<br>20 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A<br>35 A<br>35 A<br>35 A<br>36 A<br>37 A<br>38 |

| = 18 20 V rated value   | 1041/4  | 00.4  |
|---|---|---|
|   | — at 24 V rated value   | 20 A  |
|   |   |   |
|   |   |   |
| - with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 20 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - with 3 current paths in series at DC-3 at DC-5 - at 20 V rated value - at 60 V rated value - at 100 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 500 V rated value - at 60 V rated va          |   | 0.09 A  |
|   |   | 0.06 A  |
|   | <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| at 110 V rated value  | — at 24 V rated value   | 35 A  |
|   | — at 60 V rated value   | 35 A  |
| at 440 V rated value at 600 V rated value at 24 V rated value at 240 V rated value at 250 V rated value  | — at 110 V rated value  | 15 A  |
| at 600 V rated value  | — at 220 V rated value  | 3 A   |
| - with 3 current paths in series at DC-3 at DC-5  | — at 440 V rated value  | 0.27 A  |
|   | — at 600 V rated value  | 0.16 A  |
|   | <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |   |
|   | — at 24 V rated value   | 35 A  |
|   | — at 60 V rated value   | 35 A  |
|   | — at 110 V rated value  | 35 A  |
| operating power   | — at 220 V rated value  | 10 A  |
| at AC3  | — at 440 V rated value  | 0.6 A   |
| - at 230 V rated value  | — at 600 V rated value  | 0.6 A   |
|   | operating power   |   |
|   | • at AC-3   |   |
| - at 500 V rated value - at 690 V rated value - at AC-3e - at 230 V rated value - 2   | — at 230 V rated value  | 7.5 kW  |
| ■ at AC-3e     ■ at AC-3e     ■ 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 500 V rated value     — at 690 V rated value     • at 400 V rated value     • at 690 V rated value     • poperating apparent power at AC-8a     • 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 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 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 maximum     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero cu                | — at 400 V rated value  | 15 kW   |
| - at 230 V rated value - at 400 V rated value - at 500 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=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500           | — at 500 V rated value  | 15 kW   |
| - at 230 V rated value - at 400 V rated value - at 500 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 500 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=30 rated value - up to 500 V for current p          | — at 690 V rated value  | 18.5 kW   |
| - at 400 V rated value - at 600 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 600 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 690 V for current peak value n=20 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 690 V for current peak value n=30          | • at AC-3e  |   |
|   | — at 230 V rated value  | 7.5 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 operating apparent power at AC-6a up to 500 V for current peak value n=20 rated value operating apparent power at AC-6a up to 690 V for current peak value n=30 rated value operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating apparent power at AC-6a sup to 500 V for current peak value n=30 rated value operating withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum olimited to 5 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum olimited to 60 s switching          | — at 400 V rated value  | 15 kW   |
| operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value at 690 V rated value but 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 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum  at AC-4 maximum  500 1/h  control circuit/ Control   | — at 500 V rated value  | 15 kW   |
| at 400 V rated value at 800 V rated value 10.3 kW  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 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=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 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 60 s switching at zero curre           | — at 690 V rated value  | 18.5 kW   |
| at 400 V rated value at 68 W to 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 690 V for current peak value n=20 rated value up to 230 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 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 sup to 500 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at Imited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-3 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum  at AC-4 maximum  50 1/h  50 1/h  Control circuit/ Control  | operating power for approx. 200000 operating cycles at AC-              |   |
| 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 690 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 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  21.5 kVA  31.6 kVA  42.7 kVA  42.8 kVA  49.9 A; Use minimum cross-section acc. to AC-1 rated value  ilimited to 10 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilim           | 4   |   |
| 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 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 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 short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum           | at 400 V rated value  | 6 kW  |
| 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 23.3 kVA  up to 690 V for current peak value n=20 rated value 25 kVA  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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum ship in the foliant of the folia           | at 690 V rated value  | 10.3 kW   |
| • 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=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 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  • limited to 1 s switching at zero current maximum  • limited to 1 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to            | operating apparent power at AC-6a                                       |   |
| 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 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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 rated value  10 at AC-1 maximum 1000 1/h at AC-2 maximum at AC-3 maximum at AC-4 maximum 250 1/h 250 1/h  Control circuit/ Control   | <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 12.2 kVA  |
| up to 690 V for current peak value n=20 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 690 V for current peak value n=30 rated value  limited to 1 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  at AC-1 rated value  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  1000 1/h  at AC-2 maximum  at AC-3 maximum  750 1/h  at AC-3 maximum  at AC-4 maximum  25 kVA  8.1 kVA  8.2 kVA  8.3 kVA  14.2 kVA  15.5 kVA  29.4 (Use minimum cross-section acc. to AC-1 rated value  26.3 (Use minimum cross-section acc. to AC-1 rated value  162 A; Use minimum cross-section acc. to AC-1 rated value  162 A; Use minimum cross-section acc. to AC-1 rated value  162 A; Use minimum cross-section acc. to AC-1 rated value  163 A; Use minimum cross-section acc. to AC-1 rated value  164 A; Use minimum cross-section acc. to AC-1 rated value  165 A; Use minimum cross-section acc. to AC-1 rated value  167 A; Use minimum cross-section acc. to AC-1 rated value  168 A; Use minimum cross-section acc. to AC-1 rated value  169 A; Use minimum cross-section acc. to AC-1 rated value  160 A; Use minimum cross-section acc. to AC-1 rated value  161 A; Use minimum cross-section acc. to AC-1 rated value  162 A; Use minimum cross-section acc. to AC-1 rated value  163 A; Use minimum cross-section acc. to AC-1 rated value  164 A; Use minimum cross-section acc. to AC-1 rated value  165 A; Use minimum cross-section acc. to AC-1 rated value  166 A; Use minimum            |   | 21.3 kVA  |
| 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  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching           | <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul> | 23.3 kVA  |
| 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 limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero curre           | • up to 690 V for current peak value n=20 rated value                   | 25 kVA  |
| 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 short-time withstand current in cold operating state up to 40 °C  ilmited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum loolod switching frequency at AC  operating frequency at AC-1 maximum lood 1/h  operating frequency at AC-2 maximum lood 1/h  at AC-3 maximum lood 1/h  other current peak value list. kVA  15.5 kVA  21.5 kVA  499 A; Use minimum cross-section acc. to AC-1 rated value limited to 10 s switching at zero current maximum lood A; Use minimum cross-section acc. to AC-1 rated value limited to 40° C  switching at zero current maximum lood A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated value limited to 40° A; Use minimum cross-section acc. to AC-1 rated val           | operating apparent power at AC-6a                                       |   |
| <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>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60</li></ul> | • up to 230 V for current peak value n=30 rated value                   | 8.1 kVA   |
| • up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  100 A; Use minimum cross-section acc. to AC-1 rated value  110 A; Use minimum cros               | <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul> | 14.2 kVA  |
| short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  162 A; Use minimum cross-section acc. to AC-1 rated value  no-load switching frequency  • at AC  • at AC-1 maximum  1 000 1/h  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-5 outrol   | • up to 500 V for current peak value n=30 rated value                   | 15.5 kVA  |
| • limited to 1 s switching at zero current maximum     • limited to 5 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum      ro-load switching frequency     • at AC      operating frequency     • at AC-1 maximum     • at AC-2 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-4 maximum     • at AC-5 control  Control circuit/ Control   | • up to 690 V for current peak value n=30 rated value                   | 21.5 kVA  |
| <ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>control circuit/ Control</li> </ul>  |   |   |
| <ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> </ul>  |   | 400 A. Han minimum annua a " A A A A A A A A              |
| <ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 maximum</li> <li>at AC-6 maximum</li> <li>at AC-7 maximum</li> <li>at AC-7 maximum</li> <li>at AC-8 maximum</li> <li>at AC-9 maximum</li> <li>at AC-9 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 maximum</li> <li>at AC-6 maximum</li> <li>at AC-7 maximum</li> <li>at AC-8 maximum</li> <li>at AC-9 ma</li></ul>  | <u> </u>  |   |
| <ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control  | -   |   |
| <ul> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>5 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> </ul>   | -   |   |
| no-load switching frequency  • at AC  operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3e maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  Control circuit/ Control  | -   |   |
| <ul> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control   | •   | 162 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequency       1 000 1/h         • at AC-1 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3e maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control   |   | - 000 4#  |
| <ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> </ul>   |   | 5 000 1/h   |
| <ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control   |   | 4.000 48  |
| <ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> </ul>   |   |   |
| at AC-3e maximum     at AC-4 maximum     250 1/h  Control circuit/ Control  |   |   |
| at AC-4 maximum     250 1/h  Control circuit/ Control   |   |   |
| Control circuit/ Control  | • at AC-3e maximum  | 750 1/h   |
|   |   | 250 1/h   |
| type of voltage of the control supply voltage AC  | Control circuit/ Control  |   |
|   | type of voltage of the control supply voltage                           | AC  |

| control supply voltage at AC  |   |
|---|---|
| at 50 Hz rated value  | 230 V   |
| operating range factor control supply voltage rated value of<br>magnet coil at AC |   |
| • at 50 Hz  | 0.8 1.1   |
| apparent pick-up power of magnet coil at AC                                       | 0.6 1.1   |
|   | 77 VA   |
| • at 50 Hz  | // VA   |
| inductive power factor with closing power of the coil                             | 0.00  |
| • at 50 Hz  | 0.82  |
| apparent holding power of magnet coil at AC                                       | 0.01/4  |
| • at 50 Hz  | 9.8 VA  |
| inductive power factor with the holding power of the coil                         | 0.05  |
| • at 50 Hz  | 0.25  |
| closing delay   | 0 40  |
| • at AC   | 8 40 ms   |
| opening delay   |   |
| • at AC   | 4 16 ms   |
| arcing time   | 10 10 ms  |
| control version of the switch operating mechanism                                 | Standard A1 - A2                                |
| Auxiliary circuit   |   |
| number of NC contacts for auxiliary contacts instantaneous contact                | 1   |
| number of NO contacts for auxiliary contacts instantaneous                        | 1   |
| contact   |   |
| operational current at AC-12 maximum  | 10 A  |
| operational current at AC-15  |   |
| at 230 V rated value  | 10 A  |
| at 400 V rated value  | 3 A   |
| at 500 V rated value  | 2 A   |
| at 690 V rated value  | 1 A   |
| operational current at DC-12  |   |
| at 24 V rated value   | 10 A  |
| at 48 V rated value   | 6 A   |
| at 60 V rated value   | 6 A   |
| at 110 V rated value  | 3 A   |
| • at 125 V rated value  | 2 A   |
| at 220 V rated value  | 1 A   |
| at 600 V rated value  | 0.15 A  |
| operational current at DC-13  |   |
| at 24 V rated value   | 10 A  |
| at 48 V rated value   | 2 A   |
| • at 60 V rated value   | 2 A   |
| • at 110 V rated value  | 1 A   |
| at 125 V rated value  | 0.9 A   |
| at 220 V rated value  | 0.3 A   |
| at 600 V rated value  | 0.1 A   |
| contact reliability of auxiliary contacts   | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings  |   |
| full-load current (FLA) for 3-phase AC motor                                      |   |
| • at 480 V rated value  | 27 A  |
| at 600 V rated value  | 27 A  |
| yielded mechanical performance [hp]   |   |
| • for single-phase AC motor   |   |
| — at 110/120 V rated value  | 2 hp  |
| — at 230 V rated value  | 5 hp  |
| • for 3-phase AC motor  |   |
| — at 200/208 V rated value  | 10 hp   |
| — at 220/230 V rated value  | 10 hp   |
| — at 460/480 V rated value  | 20 hp   |
| — at 575/600 V rated value  | 25 hp   |
| contact rating of auxiliary contacts according to UL                              | A600 / P600                                     |
|   |   |

| Short-circuit protection  |   |
|---|---|
| design of the fuse link   |   |
| for short-circuit protection of the main circuit  |   |
| with type of coordination 1 required  | gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)               |
| with type of assignment 2 required  | gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)               |
| for short-circuit protection of the auxiliary switch required   | gG: 10 A (500 V, 1 kA)  |
| nstallation/ mounting/ dimensions   |   |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
| mounting position   | backward by +/- 22.5° on vertical mounting surface                                |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715          |
| side-by-side mounting   | Yes   |
| height  | 85 mm   |
| width   | 45 mm   |
| depth   | 97 mm   |
| required spacing  |   |
| <ul> <li>with side-by-side mounting</li> </ul>  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — downwards   | 10 mm   |
| — at the side   | 0 mm  |
| for grounded parts  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — at the side   | 6 mm  |
| — downwards   | 10 mm   |
| for live parts  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — downwards   | 10 mm   |
| — at the side   | 6 mm  |
| Connections/ Terminals  |   |
| type of electrical connection   |   |
| for main current circuit  | screw-type terminals  |
| for auxiliary and control circuit   | screw-type terminals  |
| at contactor for auxiliary contacts   | Screw-type terminals  |
| • of magnet coil  | Screw-type terminals  |
| type of connectable conductor cross-sections for main contacts  |   |
| • solid   | 2x (1 2.5 mm²), 2x (2.5 10 mm²)   |
| solid or stranded   | 2x (1 2.5 mm²), 2x (2.5 10 mm²)   |
| finely stranded with core end processing  | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²   |
| connectable conductor cross-section for main contacts   |   |
| • solid   | 1 10 mm²  |
| • stranded  | 1 10 mm²  |
| finely stranded with core end processing  | 1 10 mm²  |
| connectable conductor cross-section for auxiliary contacts  |   |
| solid or stranded   | 0.5 2.5 mm²   |
| finely stranded with core end processing  | 0.5 2.5 mm²   |
|   | 0.0 =.0 IIIII   |
| · · · · · · · · · · · · · · · · · · ·   |   |
| type of connectable conductor cross-sections  |   |
| type of connectable conductor cross-sections • for auxiliary contacts   | 2x (0.5   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross   |   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)                     |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)                     |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)                     |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  Safety related data                   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)                     |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  Safety related data  product function | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)<br>16 8<br>20 14    |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  Safety related data                   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14)                     |

| proportion of dangerous failures  |  |
|---|--|
| <ul> <li>with low demand rate according to SN 31920</li> </ul>          | 40 %   |
| <ul> <li>with high demand rate according to SN 31920</li> </ul>         | 73 %   |
| failure rate [FIT] with low demand rate according to SN 31920           | 100 FIT  |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a   |
| protection class IP on the front according to IEC 60529                 | IP20   |
| touch protection on the front according to IEC 60529                    | finger-safe, for vertical contact from the front |
|   |  |

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













other

Railway Environment

Confirmation



Confirmation

Vibration and Shock

Environmental Confirmations

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the 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=3RT2027-1AP00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2027-1AP00}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AP00

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

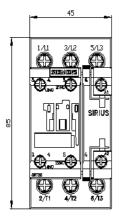
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2027-1AP00&lang=en

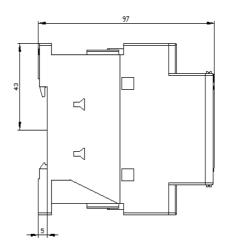
Characteristic: Tripping characteristics, I²t, Let-through current

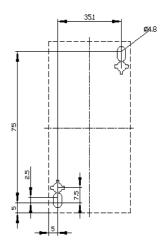
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AP00/char

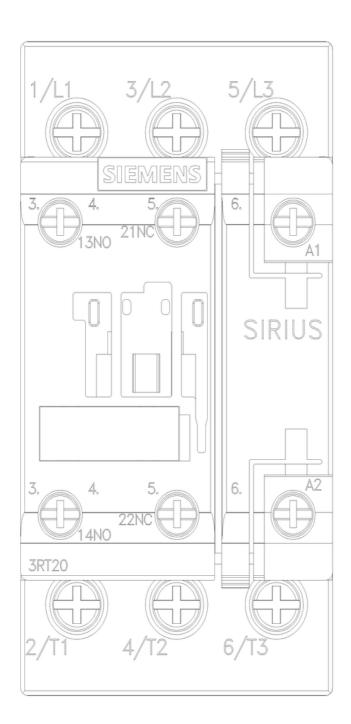
Further characteristics (e.g. electrical endurance, switching frequency)

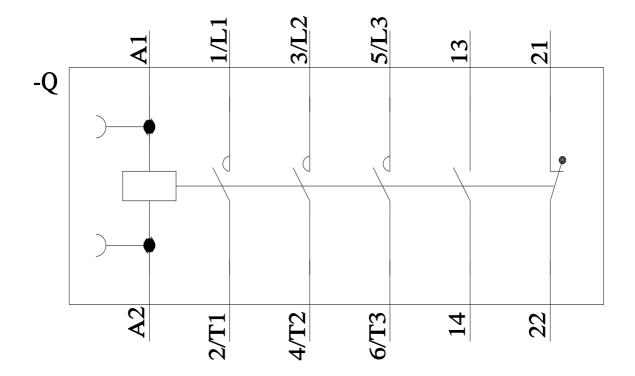
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AP00&objecttype=14&gridview=view1











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