SIEMENS

Data sheet 3RT2024-1AL24



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, removable auxiliary switch

| product brand name | SIRIUS |
|--|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S0 |
| product extension | |
| function module for communication | No |
| auxiliary switch | No |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 0.9 W |
| at AC in hot operating state per pole | 0.3 W |
| without load current share typical | 2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 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 | 7,5g / 5 ms, 4,7g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 11,8g / 5 ms, 7,4g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (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 % |
| Environmental footprint | |
| Environmental Product Declaration(EPD) | Yes |

| Global Warming Potential [CO2 eq] total | 74.2 kg |
|--|----------------|
| Global Warming Potential [CO2 eq] during manufacturing | 1.9 kg |
| Global Warming Potential [CO2 eq] during operation | 72.4 kg |
| Global Warming Potential [CO2 eq] after end of life | -0.117 kg |
| Main circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 40 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 40 A |
| — up to 690 V at ambient temperature 60 °C rated value | 35 A |
| • at AC-3 | |
| — at 400 V rated value | 12 A |
| — at 500 V rated value | 12 A |
| — at 690 V rated value | 9 A |
| • at AC-3e | |
| — at 400 V rated value | 12 A |
| — at 500 V rated value | 12 A |
| — at 690 V rated value | 9 A |
| • at AC-4 at 400 V rated value | 12.5 A |
| at AC-5a up to 690 V rated value | 35.2 A |
| at AC-5b up to 400 V rated value | 9.9 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 11.4 A |
| up to 400 V for current peak value n=20 rated value | 11.4 A |
| up to 500 V for current peak value n=20 rated value | 11.3 A |
| — up to 690 V for current peak value n=20 rated value | 9 A |
| • at AC-6a | 7.0 A |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value | 7.6 A 7.6 A |
| — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value | 7.6 A |
| — up to 690 V for current peak value n=30 rated value | 7.6 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 10 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 5.5 A |
| at 690 V rated value | 5.5 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.25 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1 A |
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 at 24 V reted value. | 2F A |
| — at 24 V rated value | 35 A |

| | — at 60 V rated value | 35 A |
|--|---|---|
| | — at 110 V rated value | 35 A |
| | — at 220 V rated value | 35 A |
| * at 1 current path at DC-3 at DC-5 | — at 440 V rated value | 2.9 A |
| | — at 600 V rated value | 1.4 A |
| at 60 V rated value | • at 1 current path at DC-3 at DC-5 | |
| | — at 24 V rated value | 20 A |
| | — at 60 V rated value | 5 A |
| | — at 220 V rated value | 1 A |
| - with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 10 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value | — at 440 V rated value | 0.09 A |
| | — at 600 V rated value | 0.06 A |
| | with 2 current paths in series at DC-3 at DC-5 | |
| | — at 24 V rated value | 35 A |
| | — at 60 V rated value | 35 A |
| | — at 110 V rated value | 15 A |
| ■ vilh 3 current paths in series at DC-3 at DC-5 | — at 220 V rated value | 3 A |
| with 3 current paths in series at DC-3 at DC-6 | — at 440 V rated value | 0.27 A |
| | — at 600 V rated value | 0.16 A |
| | with 3 current paths in series at DC-3 at DC-5 | |
| | • | 35 A |
| | | |
| | | |
| | — at 220 V rated value | |
| • at AC-3 — at 230 V rated value — at 690 V rot current peak value n=20 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 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 — 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 to | — at 440 V rated value | 0.6 A |
| at AC-3 at 230 V rated value at 400 V rated value at 690 V rated value at AC-3e at 230 V rated value at AC-3e at 400 V rated value at AC-3e at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 5.5 kW at 690 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 4.6 kW operating apparent power at AC-8a 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 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 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 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 4.5 kVA 3. kVA 3. kVA 4. 5 kVA 4. 5 kVA 5. 6 kW 4. 5 kVA 4. 5 kVA 4. 5 kVA 4. 5 kVA 4. 6 kW 4. 6 kW 4. 7. 8 kVA 5. 8 kVA 6. 9 k kVA 9. 8 kVA 10. 7 kVA 4. 6 kW 4. 7 k kVA 4. 8 kVA 4. 9 k | — at 600 V rated value | 0.6 A |
| at AC-3 at 230 V rated value at 400 V rated value at 690 V rated value at AC-3e at 230 V rated value at AC-3e at 400 V rated value at AC-3e at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 5.5 kW at 690 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 4.6 kW operating apparent power at AC-8a 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 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 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 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 4.5 kVA 3. kVA 3. kVA 4. 5 kVA 4. 5 kVA 5. 6 kW 4. 5 kVA 4. 5 kVA 4. 5 kVA 4. 5 kVA 4. 6 kW 4. 6 kW 4. 7. 8 kVA 5. 8 kVA 6. 9 k kVA 9. 8 kVA 10. 7 kVA 4. 6 kW 4. 7 k kVA 4. 8 kVA 4. 9 k | operating power | |
| - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 230 V rated value - at 230 V rated value - at 400 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=20 rated value - up to 230 V for current peak value n=20 rated value - 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 600 V for current peak value n=30 rated val | | |
| - at 500 V rated value 7.5 kW - at 690 V rated value 3 kW - at 400 V rated value 5.5 kW - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.6 kW • at 690 V rated value 4.6 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 4.5 kVA • up to 500 V for current peak value n=20 rated value 7.8 kVA • up to 690 V for current peak value n=20 rated value 9.8 kVA • up to 690 V for current peak value n=20 rated value 10.7 kVA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 5.2 kVA • up to 500 V for current peak value n=30 rated value 5.2 kVA • up to 500 V for current peak value n=30 rated value 5.2 kVA • up to 500 V for current peak value n=30 rated value 9 kVA short-time withstand current in cold operating state up to 400 °C • limited to 1 s switching at zero current maximum 6 limited to 30 s switching at zero current maximum 70 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. | — at 230 V rated value | 3 kW |
| - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 6 | — at 400 V rated value | 5.5 kW |
| at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value • 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 690 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • by to 500 V for current peak value n=30 rated value • by to 500 V for current peak value n=30 rated value • by to 500 V for current peak value n=30 rated value • by to 500 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V for current peak value n=30 rated value • by to 600 V fo | — at 500 V rated value | 5.5 kW |
| - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value | | 7.5 kW |
| - 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=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=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 c | | |
| - at 500 V rated value - at 690 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 690 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 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 • 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 10 s switching at zero current maximum • limited to 60 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 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 | — at 230 V rated value | 3 kW |
| - at 500 V rated value - at 690 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 690 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 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 • 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 10 s switching at zero current maximum • limited to 60 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 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 | — at 400 V rated value | 5.5 kW |
| 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 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 230 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=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 500 V for current peak value n=30 rated value • up to 500 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 10 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 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 | | |
| 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 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 230 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=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 500 V for current peak value n=30 rated value • up to 500 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 10 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 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 | — at 690 V rated value | 7.5 kW |
| at 400 V rated value at 690 V rated value 4.6 kW operating apparent power at AC-6a 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 690 V for current peak value n=20 rated value 9.8 kVA up to 500 V for current peak value n=20 rated value 10.7 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 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 210 A; Use minimum cross-section acc. to AC-1 rated value limited to 10 s switching at zero current maximum ulimited to 10 s switching at zero current maximum ulimited to 30 s switching at zero current maximum ulimited to 30 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum ulimited to 60 s switching at zero current maximum | 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 230 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 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 in cold operating state up to 40 °C ilmited 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum roload switching frequency at AC operating frequency | 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 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 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 500 V for current peak value n=30 rated value • up to 500 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 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 400 V rated value | 2.6 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 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 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 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 in cold operating state up to 40 °C limited to 1 s switching at zero current maximum ulimited to 5 s switching at zero current maximum ulimited to 10 s switching at zero current maximum ulimited to 30 s switching at zero current maximum ulimited to 60 s switching at zero | at 690 V rated value | 4.6 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=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 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 500 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 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 • lim | 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 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 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 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 • limited | up to 230 V for current peak value n=20 rated value | 4.5 kVA |
| • 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 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 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 • 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 frequency • at AC • Sooo 1/h | up to 400 V for current peak value n=20 rated value | 7.8 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 • up to 690 V for current peak value n=30 rated value 9 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 105 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value | • up to 500 V for current peak value n=20 rated value | 9.8 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 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 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 limited to 60 s switching at zero current maximum los A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum los A; Use minimum cross-section acc. to AC-1 rated value los A; Use minimum cross-section acc. to AC-1 rated value los A; Use minimum cross-section acc. to AC-1 rated value | • up to 690 V for current peak value n=20 rated value | 10.7 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 short-time withstand current in cold operating state up to 40 °C elimited to 1 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 10 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum folia A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 rated value folia A; Use minimum cross-section acc. to AC-1 ra | operating apparent power at AC-6a | |
| up to 500 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC 5 000 1/h operating frequency | • up to 230 V for current peak value n=30 rated value | 3 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 frequency at AC operating frequency | • up to 400 V for current peak value n=30 rated value | 5.2 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 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 frequency • at AC • at AC • at AC • limited to 1 s switching at zero current maximum 5 000 1/h • at AC | • up to 500 V for current peak value n=30 rated value | 6.5 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 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 • looperating frequency • at AC • limited to 1 s switching at zero current maximum 170 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value | • up to 690 V for current peak value n=30 rated value | 9 kVA |
| 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency | | |
| 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 no-load switching frequency at AC operating frequency | limited to 1 s switching at zero current maximum | 210 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency 126 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 5 000 1/h | limited to 5 s switching at zero current maximum | |
| ◆ limited to 60 s switching at zero current maximum no-load switching frequency ◆ at AC 5 000 1/h operating frequency | | |
| no-load switching frequency | limited to 30 s switching at zero current maximum | 126 A; Use minimum cross-section acc. to AC-1 rated value |
| • at AC 5 000 1/h operating frequency | limited to 60 s switching at zero current maximum | 105 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequency | no-load switching frequency | |
| | • at AC | 5 000 1/h |
| • at AC-1 maximum 1 000 1/h | operating frequency | |
| | • at AC-1 maximum | 1 000 1/h |

| • at AC-2 maximum | 1 000 1/h |
|--|--|
| • at AC-3 maximum | 1 000 1/h |
| at AC-3e maximum | 1 000 1/h |
| at AC-4 maximum | 300 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| at 50 Hz rated value | 230 V |
| at 60 Hz rated value | 230 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 68 VA |
| ● at 60 Hz | 67 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.72 |
| ● at 60 Hz | 0.74 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 7.9 VA |
| ● at 60 Hz | 6.5 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.25 |
| ● at 60 Hz | 0.28 |
| closing delay | |
| • 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 | 2 |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts instantaneous | |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum | 2 |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 | 2 10 A 6 A 3 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value | 2 10 A 6 A 3 A 2 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value | 2 10 A 6 A 3 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 | 2 10 A 6 A 3 A 2 A 1 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value | 2 10 A 6 A 3 A 2 A 1 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value | 2 10 A 6 A 3 A 2 A 1 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 240 V rated value • at 240 V rated value • at 125 V rated value • at 240 V rated value • at 600 V rated value • at 48 V rated value • at 400 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |
| number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |

| at 480 V rated value | 11 A |
|--|---|
| • at 600 V rated value | 11 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | 4 ha |
| — at 110/120 V rated value | 1 hp |
| — at 230 V rated value | 2 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 3 hp |
| — at 220/230 V rated value | 3 hp |
| — at 460/480 V rated value | 7.5 hp |
| — at 575/600 V rated value | 10 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) |
| — with type of assignment 2 required | gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
| | backward by +/- 22.5° on vertical mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| height | 85 mm |
| width | 45 mm |
| depth | 141 mm |
| required spacing | |
| with side-by-side mounting | |
| — 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 Screw-type terminals |
| type of connectable conductor cross-sections | o. o. type terrification |
| • for main contacts | |
| — solid | 2x (1 2.5 mm²), 2x (2.5 10 mm²) |
| solid solid or stranded | 2x (1 2.5 mm²), 2x (2.5 10 mm²) 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 |
| for AWG cables for main contacts | 2x (16 12), 2x (14 8) |
| connectable conductor cross-section for main contacts | 4. 402 |
| • 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 |

| type of connectable conductor cross-sections | |
|---|--|
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross section | |
| • for main contacts | 16 8 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| B10 value with high demand rate according to SN 31920 | 450 000 |
| product function positively driven operation according to IEC 60947-5-1 | No |
| product function mirror contact according to IEC 60947-4-1 | Yes |
| suitability for use safety-related switching OFF | Yes |
| IEC 61508 | |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| Electrical Safety | |
| 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 |
| Approvals Certificates | |







Confirmation





General Product Approval

General Product Approval

EMV

Test Certificates

Marine / Shipping

<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping







RINA



Miscellaneous

other

other

Environment

Confirmation

Confirmation

EPD Typ II/III (with life cylce assessment)

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RT2024-1AL24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AL24

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AL24

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

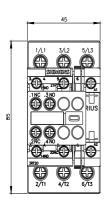
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1AL24&lang=el

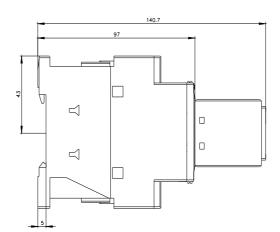
Characteristic: Tripping characteristics, I²t, Let-through current

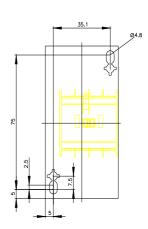
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AL24/char

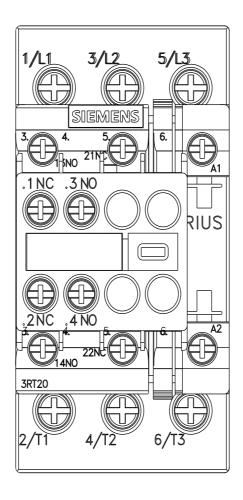
Further characteristics (e.g. electrical endurance, switching frequency)

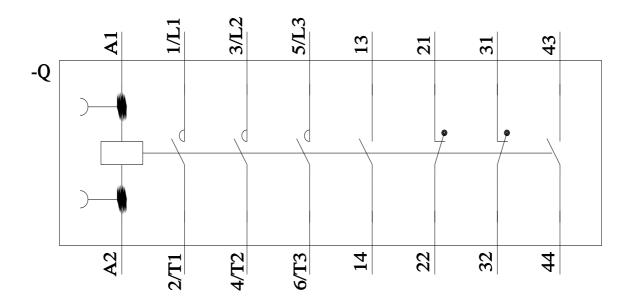
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1AL24&objecttype=14&gridview=view1











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