SIEMENS

Data sheet 3RT2046-3NP30



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal

| product brand name | SIRIUS |
|---|------------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S3 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 19.8 W |
| at AC in hot operating state per pole | 6.6 W |
| without load current share typical | 3.1 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 690 V |
| shock resistance at rectangular impulse | |
| • at AC | 10.3g / 5 ms, 6,.g / 10 ms |
| • at DC | 6.7 g / 5 ms, 4g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 16.3g / 5 ms, 10.g / 10 ms |
| • at DC | 10.6 g / 5 ms, 6.3 g / 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) | 03/01/2017 |
| 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 % |

| number of Poles for main current circuit sumber of No Contacts for main contacts operating voltage ■ at AC-3 rated value maximum ■ at AC-3 rated value maximum ■ at AC-3 rated value maximum ■ at AC-3 rated value ■ at AC-1 4 400 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 60 °C rated value — up to 680 V at ambient temperature 60 °C rated value ■ at AC-3 ■ at 400 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at AC-3 at 400 V rated value ■ at AC-3 at 40 | Main circuit | |
|--|---|--------------------|
| Operation Voltage | number of poles for main current circuit | 3 |
| * al AC-3 reted value maximum * al AC-3 retade value maximum * al AC-1 at 400 V at ambient temperature 40 °C rated value * al AC-1 — up to 690 V at ambient temperature 60 °C rated value * al AC-1 — up to 690 V at ambient temperature 60 °C rated value — up to 690 V rated value — at 500 V rated value — at 500 V rated value — at 400 V rated value — at 500 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — up to 600 V 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=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — 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 — at 600 V rated value — at 600 V ra | number of NO contacts for main contacts | 3 |
| a at AC-3e rated value maximum operational current a at AC-1 at 400 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value a ta AC-3 — at 400 V rated value a at 40-3 — at 400 V rated value — at 500 V rated value — at 1000 V rated value — 30 A — at 100 to 100 V rourrent 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 — at 660 V rated value — at 660 V rated value — at 650 V rated value — at 600 V rated value — at 100 V rated value | | |
| September Sept | at AC-3 rated value maximum | |
| and AC-1 at 400 V at ambient temperature 40 °C rated value | | 1 000 V |
| rated value | • | |
| at AC-1 — up to 680 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 60 °C rated value — up to 680 V at ambient temperature 60 °C rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 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 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=30 rated value — up to 680 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 | | 130 A |
| | | |
| rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 590 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — up to 230 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 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=3 | | 130 A |
| rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 690 V rated value — at 600 V rated value — up to 230 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=30 rated value — up to 6 | | 100 A |
| rated value at AC-3 — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rated value — at 1000 V rated value — up to 680 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 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=30 rated value — up to 680 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 680 V for current peak value n=30 r | — up to 690 V at ambient temperature 60 °C | 110 A |
| at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 1000 V rated value at 500 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value at 600 V rated value at 220 V rated value at 240 V rated value at 220 V rated value at 240 V rated value at 240 V rated value at 600 V rated value | | |
| at 500 V rated value at 1000 V rated value at 400 V rated value at 500 V rated value at 1000 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 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 up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value up to 690 V for current | • at AC-3 | |
| | — at 400 V rated value | |
| ■ at 1000 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 609 V rated value ■ at 1000 V rated value ■ at AC-3 au pt 0 690 V rated value ■ at AC-5 up to 690 V rated value ■ at AC-5 up to 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 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 690 V for current peak value n=30 rated value — up to 690 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 — 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 — 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 — up to 600 V for current peak value n=30 rated value — at 600 V rated v | | |
| • at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value 30 A at AC-5a up to 690 V rated value • at AC-5a up to 690 V rated value • at AC-5a up to 690 V rated value • at AC-5a — 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 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — 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 | | |
| at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value at AC-5b up to 400 V rated value 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 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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value at 690 V rated value at 690 V rated value at 690 V rated value at 24 V rated value | | 30 A |
| - at 500 V rated value - at 690 V rated value 78 A | | 05.4 |
| - at 690 V rated value - at 1000 V rated value 30 A • at AC-4 at 40 V rated value 80 A • at AC-5a up to 690 V rated value 95 A • at AC-6a - up to 230 V for current peak value n=20 rated value 95 A • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A • at AC-6a - up to 230 V for current peak value n=20 rated value 95 A • at AC-6a - up to 230 V for current peak value n=30 rated value 95 A • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A • at 400 V faced value 95 A • at 400 V rated value 42 A • at 400 V rated value 95 A • at 600 V rated value 96 A • at 600 V rated value 97 A • at 60 V rated value 97 A • at 600 V rated value 98 A • at 600 V rated value 99 A • at 600 V rated value 90 A • at 400 V rated v | | |
| - at 1000 V rated value 80 A 80 | | |
| at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value 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 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 400 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 440 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value | | |
| • at AC-5a up to 690 V rated value 95 A • at AC-5b up to 400 V rated value 95 A • 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=20 rated value — up to 10 consolve for current peak value n=30 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 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 600 V rated value — at 600 V rated value — at 240 V rated value — at 440 V rated value | | |
| ■ at AC-5b up to 400 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 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value ■ 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 400 V rated value — at 690 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 60 V rated value — at 24 V rated value — at 60 V rated val | | |
| ■ 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 ■ 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 — 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 400 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 690 V rated value — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 240 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 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 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - at 440 V rated value - at 440 V rated value - at 24 V rated value - at 20 V rated value - at 440 V rated value - at 60 V 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 590 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value • at AC-6a - 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 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 - 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 - operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value - at 60 V rated value - at 60 V rated value - at 24 V rated value - at 20 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value | | 84.4 A |
| 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 • 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 400 V rated value • at 400 V rated value • at 400 V rated value — at 24 V rated value — at 60 V rated value — at 60 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 24 V rated value — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 | value | 84.4 A |
| value — up to 690 V for current peak value n=20 rated value • 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 minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 490 V rated value • at 690 V rated value — at 24 V rated value — at 60 V rated value — at 20 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value | value | 84.4 A |
| 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 minimum cross-section in main circuit at maximum AC-1 rated 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 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value | value | 58 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 - 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 minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 400 V rated value - at 400 V rated value - at 40 V rated value - at 40 V rated value - at 40 V rated value - at 440 V rated value - at 40 V rated value - at 40 V rated value - at 600 V rated value - at 22 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value | | |
| 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 — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 400 V rated value — at 600 V rated value — at 24 V rated value | | 56.3 A |
| value | · | 30.0 A |
| value — up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 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 — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V ra | | 56.3 A |
| walue minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 450 V rated value — at 200 V rated value — at 200 V rated value — at 440 V rated value — at 440 V rated value — at 440 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 100 A | | 56.3 A |
| rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • 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 220 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value 100 A | value | 56.3 A |
| e at 400 V rated value 42 A ■ at 690 V rated value 30 A operational current ■ at 1 current path at DC-1 — at 24 V rated value 100 A — at 60 V rated value 60 A — at 110 V rated value 9 A — at 220 V rated value 2 A — at 440 V rated value 0.6 A — at 600 V rated value 0.6 A — at 600 V rated value 100 A | rated value | 50 mm ² |
| 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 In 00 A | cycles at AC-4 | |
| operational current • at 1 current path at DC-1 | at 400 V rated value | |
| 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 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 100 A | | 30 A |
| - at 24 V rated value 100 A - at 60 V rated value 60 A - at 110 V rated value 9 A - at 220 V rated value 2 A - at 440 V rated value 0.6 A - at 600 V rated value 0.4 A • with 2 current paths in series at DC-1 - at 24 V rated value 100 A | • | |
| - at 60 V rated value 60 A - at 110 V rated value 9 A - at 220 V rated value 2 A - at 440 V rated value 0.6 A - at 600 V rated value 0.4 A • with 2 current paths in series at DC-1 - at 24 V rated value 100 A | - | 400 A |
| — 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 9 A 2 A 0.6 A 0.4 A 100 A | | |
| — 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 2 A 0.6 A 0.4 A 100 A | | |
| — at 440 V rated value | | |
| — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value 100 A | | |
| • with 2 current paths in series at DC-1 — at 24 V rated value 100 A | | |
| — at 24 V rated value 100 A | | V.171 |
| | - | 100 A |
| — at ou viraled value | — at 60 V rated value | 100 A |
| — at 110 V rated value 100 A | | |
| — at 220 V rated value 10 A | | |
| — at 440 V rated value 1.8 A | | |
| — at 600 V rated value 1 A | — at 600 V rated value | 1 A |

| with 3 current paths in series at DC-1 | |
|---|---|
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 80 A |
| — at 440 V rated value | 4.5 A |
| — at 600 V rated value | 2.6 A |
| • at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 40 A |
| — at 60 V rated value | 6 A |
| — at 110 V rated value | 2.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.15 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 | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 7 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 35 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.35 A |
| operating power | |
| • at AC-2 at 400 V rated value | 45 kW |
| • at AC-3 | 00.1114 |
| — at 230 V rated value | 22 kW |
| — at 400 V rated value | 45 kW |
| — at 500 V rated value | 55 kW |
| — at 690 V rated value | 75 kW |
| — at 1000 V rated value | 37 kW |
| • at AC-3e | 00 1344 |
| — at 230 V rated value | 22 kW |
| — at 400 V rated value | 45 kW |
| — at 500 V rated value | 55 kW |
| — at 690 V rated value | 75 kW |
| — at 1000 V rated value | 37 kW |
| operating power for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 22 kW |
| at 690 V rated value | 27.4 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 33 kVA |
| up to 400 V for current peak value n=20 rated value | 58 kVA |
| • up to 500 V for current peak value n=20 rated value | 73 kVA |
| • up to 690 V for current peak value n=20 rated value | 69 kVA |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=30 rated value | 22.4 kVA |
| up to 400 V for current peak value n=30 rated value | 39 kVA |
| up to 500 V for current peak value n=30 rated value | 48.7 kVA |
| • up to 690 V for current peak value n=30 rated value | 67.3 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 1 725 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 1 297 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 946 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 610 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 486 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| | |

| * alf AC | | |
|--|---|------------------|
| operating frequency | • at AC | 1 000 1/h |
| | | 1 000 1/h |
| | | |
| | | |
| earl AC-3e maximum 250 fth | | |
| ■ at AC-4 maximum 250 1fh | | |
| ACIDC | | |
| type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rat | | 250 1/h |
| control supply voltage at AC | | |
| | | AC/DC |
| | | |
| control supply voltage at DC | | |
| e rated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz besides suppressor intush current peak docked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC at 50 Hz besides suppressor intush current mean value apparent pick-up power of magnet coil at AC at 50 Hz besides suppressor intush current mean value apparent pick-up power of magnet coil at AC at 50 Hz besides suppressor intush current mean value apparent pick-up power of magnet coil at AC at 50 Hz besides suppressor intush current mean value apparent pick-up power of magnet coil at AC at 50 Hz besides suppressor intush current mean value at 60 Hz besides suppressor intush current mean value at 60 Hz besides suppressor intush current at AC at 50 Hz besides suppressor intush current at AC at 50 Hz besides suppressor intush current at AC at AC at C at DC at AC at AC at AC at DC at AC at DC at AC a | | 175 280 V |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value of magnet coil at AC • at 50 Hz • at 60 Hz • at 70 Hz • at 80 Hz | | |
| value of magnet coil at DC 0.8 • Initila-scale value 0.8 operating range factor control supply voltage rated value of magnet coil at AC 1.1 • at 50 Hz 0.8 1.1 design of the surge suppressor inrush current peak 5.8 1.1 design of the surge suppressor inrush current peak 5.9.8 duration of inrush current peak 5.9.8 locked-rotor current mean value 0.44 A locked-rotor current peak 1.2 A duration of locked-rotor current 150 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 151 VA • at 50 Hz 151 VA • at 60 Hz 151 VA apparent holding power of magnet coil at AC 3.5 VA • at 60 Hz 3.5 VA • at DC 6 70 ms • at DC 50 70 ms • at DC 38 57 ms • at DC 38 57 ms • at DC 38 57 ms | | 175 280 V |
| initial value full-scale value 0.8 1.1 | operating range factor control supply voltage rated | |
| e full-scale value operating range factor control supply voltage rated value of magnet coil at AC e at 50 Hz at 60 Hz clesign of the surge suppressor inrush current peak clocked-rotor current mean value clocked-rotor current mean value clocked-rotor current mean value clocked-rotor current mean value apparent pick-up power of magnet coil at AC e at 50 Hz at 60 Hz at | | 0.8 |
| operating range factor control supply voltage rated value of magnet coil at AC | | |
| valt 00 Hz 0.8 1.1 e at 50 Hz 0.8 1.1 design of the surge suppressor with varistor inrush current peak 65 A duration of inrush current peak 5 µs locked-rotor current mean value 0.44 A locked-rotor current peak 1.2 A duration of locked-rotor current 150 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 151 VA e at 50 Hz 151 VA at 60 Hz 3.5 VA c at 60 Hz 3.5 VA e at 60 Hz 3.5 VA closing power of magnet coil at DC 76 W holding power of magnet coil at DC 1.8 W closing power of magnet coil at DC 1.8 W closing delay at AC at DC 50 70 ms opening delay at AC at DC 38 57 ms arcing time 10 20 ms cortor of NC contacts for auxiliary contacts 1 instantaneous contact 10 ms operational current at AC-15 | | 1.1 |
| | | |
| • at 80 Hz 0.8 1.1 design of the surge suppressor inrush current peak 65 A | _ | 0.8 1.1 |
| design of the surge suppressor | | |
| Inrush current peak 65 A duration of Inrush current peak 0.44 A 0.000 | design of the surge suppressor | with varistor |
| duration of inrush current peak 5 µs locked-rotor current mean value 0.44 A locked-rotor current peak 1.2 A duration of locked-rotor current 150 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC at 50 Hz | | 65 A |
| 1.2 A | | 5 μs |
| duration of locked-rotor current 150 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC • at 50 Hz 151 VA 151 VA at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz 3.5 VA at 60 Hz 3.5 VA at 60 Hz 3.5 VA at 60 Hz apparent holding power of magnet coil at DC 76 W holding power of magnet coil at DC 1.8 W closing power of magnet coil at DC 1.8 W closing delay • at AC 50 70 ms at DC | locked-rotor current mean value | 0.44 A |
| holding current mean value 10 mA | locked-rotor current peak | 1.2 A |
| apparent pick-up power of magnet coil at AC | duration of locked-rotor current | 150 ms |
| ■ at 50 Hz ■ at 60 Hz ■ at 60 Hz ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 60 Hz □ at AC □ at AC ■ at DC □ at DC □ at DC □ at AC ■ at DC □ at AC ■ at DC □ at DC | holding current mean value | 10 mA |
| ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 60 Hz □ at 70 Hz □ at 80 Hz | apparent pick-up power of magnet coil at AC | |
| apparent holding power of magnet coil at AC at 50 Hz tolosing power of magnet coil at DC holding power of magnet coil at DC tolosing delay at AC at DC opening delay at DC at D | ● at 50 Hz | 151 VA |
| ■ at 50 Hz ■ at 60 Hz ■ at 60 Hz ■ closing power of magnet coil at DC holding power of magnet coil at DC closing delay ■ at AC ■ at DC oening delay ■ at AC ■ at DC oening delay ■ at AC ■ at DC □ at 230 V rated value □ at 400 V rated value □ at 400 V rated value □ at 690 V rated value □ at 690 V rated value □ at 48 V rated value □ at 40 V rated value □ at 48 V rated value □ at 25 V rated value □ at 110 V rated value □ at 25 V rated value □ at 110 V rated value □ at 25 V rated value □ at 110 V rated value □ at 25 V rated value □ at 25 V rated value □ at 125 V rated value | ● at 60 Hz | 151 VA |
| ■ at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay ■ at AC ■ at DC opening delay ■ at AC ■ at DC | apparent holding power of magnet coil at AC | |
| closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at AC • at DC • at Contacts for auxiliary contacts instandaneous contact • at Contacts for auxiliary contacts • at Contacts for auxiliary contacts • at Contacts for auxiliary contacts • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 40 V rated value • | | 3.5 VA |
| holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC at DC as at AC as at AC as at AC as AC as at AC as at AC as at AC as AC A | | |
| e at AC 50 70 ms e at DC opening delay e at AC 38 57 ms opening delay e at AC 38 57 ms arcing time 10 20 ms control version of the switch operating mechanism 5tandard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 e at 230 V rated value 6 A e at 400 V rated value 1 A e at 690 V rated value 1 A operational current at DC-12 e at 24 V rated value 1 A operational current at DC-12 e at 48 V rated value 6 A e at 40 V rated value 3 A e at 48 V rated value 6 A e at 40 V rated value 3 A e at 48 V rated value 6 A e at 40 V rated value 3 A e at 40 V rated value 3 A e at 40 V rated value 3 A e at 40 V rated value 40 A e at 40 V rated value 5 A e at 40 V rated value 6 A e at 40 V rated value 6 A e at 110 V rated value 3 A e at 125 V rated value 3 A e at 125 V rated value 3 A | • | |
| at AC at DC opening delay at AC at DC at DC at DC at DC as 57 ms at DC as 57 ms acring time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact onumber 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 60 V rated value at 690 V rated value at 48 V rated value at 40 V rated value | | 1.8 W |
| at DC opening delay at AC at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous 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 500 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 125 V rated value | | |
| opening delay • at AC • at DC 38 57 ms arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous 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 • at 690 V rated value • at 44 V rated value • at 45 V rated value • at 40 V rated value • at 60 V rated value • at 70 V rated value • at 80 V rated value | | |
| • at AC • at DC • at DC | | 50 70 ms |
| arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous 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 600 V rated value at 690 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 | | 00 57 |
| arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous 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 • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value | | |
| control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous 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 • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 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 | | |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value 6 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 7 A • at 60 V rated value 8 A • at 60 V rated value 9 A | _ | |
| number of NC contacts for auxiliary contacts instantaneous 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 • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value | | Stanuaru AT - AZ |
| instantaneous 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 • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • 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 • at 400 V rated value 1 A 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 • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 24 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • 2 A | | 1 |
| 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 • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value • 3 A • at 125 V rated value • 2 A | | 1 |
| 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 • at 24 V rated value • 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 • 2 A | | |
| 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 1 A operational current at DC-12 at 24 V rated value at 48 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 | | 10 A |
| at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 2 A | • | |
| at 500 V rated value at 690 V rated value 1 A 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 2 A 4 A 5 A 6 A 7 A 8 A 9 A 10 A | | 6 A |
| 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 2 A | • at 400 V rated value | 3 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 500 V rated value | 2 A |
| 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 2 A | • at 690 V rated value | 1 A |
| at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 2 A | operational current at DC-12 | |
| at 60 V rated value at 110 V rated value at 125 V rated value 2 A | • at 24 V rated value | 10 A |
| at 110 V rated value at 125 V rated value 2 A | • at 48 V rated value | 6 A |
| • at 125 V rated value 2 A | • at 60 V rated value | 6 A |
| | • at 110 V rated value | |
| • at 220 V rated value 1 A | | |
| | • at 220 V rated value | 1 A |

| • at 60.0 V rated value • at 64 V rated value • at 60 V rated value • at 150 V rated value • at 250 V rated value • bot short-circuit protection of the man circuit • with type of coordination of the man circuit • with type of coordination of the man circuit • with type of coordination of the man circuit • with type of coordination of the man circuit • bot short-circuit protection o | | 0.47.1 |
|--|---|--|
| all 24 Y rated value | | U.15 A |
| • at 80 V rated value | • | 40.4 |
| all 10 V rated value | | |
| 1 | | |
| | | |
| • at 220 V rated value | | |
| a ti 500 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULICSA ratings full-load current (FLA) for 3-phase AC motor | | |
| Contact reliability of auxilliary contacts 1 faulty switching per 100 million (17 V, 1 mA) | | |
| Tull-odd current (FLA) for 3-phase AC motor at 48 DV rated value at 500 V rated value at 200 V rated value at 2000 V r | | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • at 800 V rated value • of solid-phase AC motor — at 110/120 V rated value • of solid-phase AC motor — at 110/120 V rated value • of solid-phase AC motor — at 200280 V rated value • of solid-phase AC motor — at 200280 V rated value • of solid-phase AC motor — at 200280 V rated value — at 2200280 V rated value — at 460480 V rated value — at 460480 V rated value — at 460480 V rated value — at 675-600 V rated value — at 675-600 V rated value — at 675-600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required spacing • with side-by-side mounting • side-by-side mounting • forward and backward by +/-22.5° on vertical mounting surface; can be tilted • for short-dircuit protection • for short-dircuit protection • side-by-side mounting • side-by-side mounting • forwards • side-by-side mounting • forwards • ownwards • ownwards • ownwards • ownwards • ownwards • ownwards • of the side • of or grounded parts • for owards • ownwards • of the parts • for auxiliary and control circuit • for auxiliary and control circuit • of or auxiliary and control cir | | 1 faulty switching per 100 million (17 V, 1 mA) |
| ■ at 480 V rated value | UL/CSA ratings | |
| a it 500 V rated value yielded mechanical performance [hp] of or single-phase AC motor — at 1101/20 V rated value 10 hp at 230 V rated value 20 hp for 3-phase AC motor — at 200/230 V rated value 30 hp — at 220/230 V rated value 9 for 3-phase AC motor — at 200/230 V rated value 9 for 3-phase AC motor — at 200/230 V rated value 9 for 3-phase AC motor — at 200/230 V rated value 9 for 3-phase AC motor — at 40/4080 V rated value 75 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link 9 for short-circuit protection of the main circuit — with type of coordination 1 required 4 (15 V, 80 kA) 9 for short-circuit protection of the auxiliary switch — with type of assignment 2 required 4 (15 V, 80 kA) 9 for short-circuit protection of the auxiliary switch required installation/mounting/dimensions mounting position fastenling method forwards and backward by ++ 22.5° on vertical mounting surface; can be tilted forward and backward by ++ 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting forwards outpwards | full-load current (FLA) for 3-phase AC motor | |
| yielded mechanical performance [hp] • for single-phase AC motor — at 101/20 V rated value — at 230 V rated value — at 220/230 V rated value — at 25/5800 V rated value — at 57/5800 V rated value — at 57/5800 V rated value — of a sharp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — of rashort-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounti | at 480 V rated value | 96 A |
| • for single-phase AC motor — at 110/120 / rated value — at 230 V rated value — at 2200/203 V rated value — at 460/480 V rated value — at 875/500 V rated value Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method side-by-side mounting • side-by-side mounting • with side-by-side mounting — forwards — upwards — downwards — 10 mm — downwards — of for grounded parts — forwards — upwards — of mowards — of | at 600 V rated value | 77 A |
| af 110/120 V rated value at 230 V rated value at 220 V rated value at 220/230 V rated value 30 hp at 200/230 V rated value 30 hp | yielded mechanical performance [hp] | |
| - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 420/230 V rated value - at 420/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/900 V rated value - at 575/900 V rated value - at 575/900 V rated value - at 69/480 V rated value - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - at 69 rashort-circuit protection of the auxiliary switch - for short-circuit solution of the auxiliary switch - for short-circuit | for single-phase AC motor | |
| of or 3-phase AC motor | — at 110/120 V rated value | 10 hp |
| - at 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 60/480 V rated value - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required - at 60 x 600 V rated value - with type of assignment 2 required - at 60 x 600 V rated value - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - at 60 x 600 V rated value - | at 230 V rated value | 20 hp |
| - at 220/230 V rated value - at 450/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value contact rating of auxillary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required - with type of leading of the auxiliary switch required - with type of leading of the auxiliary switch required - with type of leading of the auxiliary switch required - side-by-side mounting - side-by-side mounting - to rate of the auxiliary switch required side-by-side mounting - to rate of the auxiliary switch required side-by-side mounting - to rowards - downwards - at the side - downwards - downwards - downwards - downwar | for 3-phase AC motor | |
| - at 480480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting height width - forwards - upwards - downwards - downwards - at the side • for grounded parts - forwards - at the side - downwards • for ikip parts - forwards - upwards - at the side - downwards - to five parts - forwards - upwards - to forwards - at the side - downwards - to five parts - forwards - upwards - at the side - downwards - to five parts - forwards - upwards - to forwards - upwards - to forwards - at the side - downwards - to five parts - forwards - to | at 200/208 V rated value | 30 hp |
| contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required functions ***/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by **/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • with side-by-side mounting • or or ownwards — downwards — downwards — at the side • for grounded parts — forwards — at the side • downwards • for live parts — forwards • for live parts — forwards • for live parts — downwards • for live parts — downwards • for wards — at the side • for wards — downwards • for auxiliary and control circuit • | at 220/230 V rated value | 30 hp |
| Short-circuit protection design of the fuse link | — at 460/480 V rated value | 75 hp |
| Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) — with type of assignment 2 required gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) * for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) * installation/ mounting/dimensions | — at 575/600 V rated value | 75 hp |
| design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for switch mounting dimensions **T+190" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • forwards — upwards — 10 mm — at the side • for grounded parts — forwards — upwards — upwards — 10 mm — at the side — downwards — 10 mm • for law side — downwards — 10 mm • for main current sicult — downwards — 10 mm — at the side — 10 mm • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • spring-loaded terminals • Spring-type terminals • Spring-type terminals • Spring-type terminals | contact rating of auxiliary contacts according to UL | A600 / P600 |
| design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for switch mounting dimensions **T+190" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • forwards — upwards — 10 mm — at the side • for grounded parts — forwards — upwards — upwards — 10 mm — at the side — downwards — 10 mm • for law side — downwards — 10 mm • for main current sicult — downwards — 10 mm — at the side — 10 mm • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • spring-loaded terminals • Spring-type terminals • Spring-type terminals • Spring-type terminals | Short-circuit protection | |
| • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • fastening method • side-by-side mounting • side-by-side mounting • with side-by-side mounting • forwards — upwards — downwards — at the side — upwards — at the side — upwards — at the side — upwards — to mm • for grounded parts — forwards — upwards — upwards — upwards — to mm • of or ilve parts — upwards — to mm — at the side — upwards — upwards — to mm — at the side — upwards — to mm — downwards — to mm — to the side — upwards — to mm — at the side — upwards — to mm — at the side — upwards — to mm — downwards — to mm — to the side — to mm | | |
| with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting s | • | |
| (415 V, 80 kA) - with type of assignment 2 required g: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required g: 10 A (500 V, 1 kA) g: 10 | · | qG: 250 A (690 V. 100 kA), aM: 160 A (690 V. 100 kA), BS88: 200 A |
| • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **T-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting **Yes height **Midth **T0 mm depth **T0 mm depth **T0 mm - forwards - upwards - downwards - at the side **O mm - at the side - downwards - upwards - upwards - upwards - upwards - for grounded parts - forwards - upwards - upwards - upwards - to mm - at the side - downwards - to mm - downwards - to mm - downwards - upwards - upwards - upwards - upwards - to mm - at the side - downwards - to mm - downwards - to main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - Spring-type terminals - Spring-type terminals | 34 | |
| for short-circuit protection of the auxiliary switch required mounting position #-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting **es** height | — with type of assignment 2 required | gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A |
| required 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 ### side-by-side mounting sides side side mounting surface; can be tilted forwards ### side-by-side mounting sides sides side sides | | (415 V, 80 kA) |
| mounting position fastening method side-by-side mounting with side-by-side mounting - forwards - upwards - at the side - forwards - upwards - at the side - downwards - upwards - torwards - upwards - to mm - at the side - downwards - to mm - at the side - downwards - to mm - at the side - downwards - to mm - to main current circuit - for auxiliary and control circuit - for auxiliary and control sircuit - to at contactor for auxiliary contacts - to screw-type terminals - to townings - to screw-type terminals - to connections/ Terminals - to connection of auxiliary contacts - to connection of auxiliary contacts - to connection of spring-loaded terminals - to connection of spring-loaded terminals - to connection of spring-loaded terminals - to connection of auxiliary contacts - to connection of spring-loaded terminals - to conne | | gG: 10 A (500 V, 1 kA) |
| mounting position +/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting + side-by-side mounting + id num * width * depth * required spacing • with side-by-side mounting - forwards - upwards - upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - upwards - in mm • for wards - at the side 10 mm • of or grounded parts - forwards - upwards - upwards - upwards - at the side 10 mm • for live parts - forwards - upwards • for live parts - downwards • for live parts - downwards - upwards - upwards - upwards - upwards - to mm - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - to mm - downwards - upwards - upward | | |
| fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 side-by-side mounting height width depth 152 mm required spacing with side-by-side mounting - forwards - upwards - downwards - at the side - downwards - upwards - at the side - downwards - upwards - upwards - upmards - at the side - downwards - upmards - upwards - upmards - to mm - | <u> </u> | |
| screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting height width depth frequired spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — to man depth to mm • for grounded parts — forwards — upwards — upwards — upwards — upwards — to mm • for grounded parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — for live parts — forwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — to mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions | |
| • side-by-side mounting height height width width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards — to mm — at the side • for grounded parts — forwards — upwards — upwards — upwards — to mm • for live parts — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — un mm — downwards — downwards — un mm — downwards — at the side — to mm — at the side — or mm — or | Installation/ mounting/ dimensions | |
| • side-by-side mounting height width | Installation/ mounting/ dimensions mounting position | forward and backward by +/- 22.5° on vertical mounting surface |
| height width 70 mm depth 152 mm required spacing • with side-by-side mounting — forwards 20 mm — upwards 10 mm — downwards 10 mm • for grounded parts — forwards 20 mm • for grounded parts — at the side 0 mm — upwards 10 mm — at the side 10 mm • for live parts — forwards 20 mm — upwards 10 mm • for live parts — forwards 20 mm — upwards 10 mm • for live parts — forwards 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN |
| width 70 mm depth 152 mm required spacing • with side-by-side mounting — forwards 20 mm — upwards 10 mm — downwards 10 mm • for grounded parts — forwards 20 mm • for grounded parts — upwards 10 mm • for grounded parts — at the side 10 mm — at the side 10 mm • for live parts — forwards 20 mm — upwards 10 mm • for live parts — forwards 20 mm • for live parts — forwards 10 mm • for live parts — upwards 10 mm • for live parts — upwards 10 mm • for live parts — of ownwards 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| depth required spacing | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes |
| required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side — odwnwards — at the side — odwnwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — upwards — the side — downwards — the side — upwards — upwards — upwards — upwards — upwards — upwards — odwnwards — at the side — odwnwards — at the side — odwnwards — at mm Tonnections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts Spring-loaded terminals • at contactor for auxiliary contacts | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm |
| with side-by-side mounting — forwards — upwards — downwards — at the side o mm for grounded parts — forwards — upwards — upwards — upwards — at the side 10 mm — at the side — downwards — 10 mm — downwards — 10 mm o for live parts — forwards — upwards — upwards — upwards — 10 mm for live parts — forwards — upwards — upwards — 10 mm connections/ Terminals type of electrical connection o for main current circuit of or auxiliary and control circuit spring-loaded terminals o at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm |
| - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts - forwards 20 mm - upwards 10 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - at the side 20 mm - upwards 10 mm - for live parts - forwards 20 mm - forwards 10 mm • for live parts - forwards 10 mm - at the side 10 mm • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts • Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm |
| - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts 10 mm - screw-type terminals - spring-loaded terminals - spring-loaded terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm |
| - downwards - at the side 0 mm • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm |
| - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - downwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts O mm - o mm | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm |
| for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — forwards — upwards — forwards — upwards — upwards — upwards — upwards — at the side — at the side — to mm — at the side — to mm — at the side — to mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts Spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm |
| forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm for live parts forwards 20 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 10 mm at the side 10 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals for auxiliary and control circuit spring-loaded terminals at contactor for auxiliary contacts Spring-type terminals Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm |
| upwards at the side downwards for live parts forwards upwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm |
| - at the side - downwards 10 mm • for live parts - forwards - upwards - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts 10 mm screw-type terminals Spring-loaded terminals Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm 0 mm |
| - downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts 10 mm 10 mm 10 mm 20 mm 10 mm 20 | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 0 mm |
| for live parts — forwards — upwards — downwards — at the side | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 0 mm |
| forwards upwards downwards at the side mm at the side mm mm Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts Spring-type terminals Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm |
| upwards downwards at the side mm mm connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 10 mm connections/ screw-type terminals spring-loaded terminals Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm |
| - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm |
| - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — forwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts screw-type terminals spring-loaded terminals Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — downwards — at the side — downwards — at the side — downwards — at the side | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| for auxiliary and control circuit at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards — upwards — upwards — upwards — upwards — at the side Connections/ Terminals | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| • at contactor for auxiliary contacts Spring-type terminals | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for live parts — forwards — upwards — upwards — at the side — downwards — torwards — upwards — at the side — downwards — upwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| or magnet coil Spring-type terminals | mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — downwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — torwards — upwards — torwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm |
| | Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm Screw-type terminals Spring-loaded terminals Spring-type terminals |

type of connectable conductor cross-sections for main • finely stranded with core end processing 2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²) connectable conductor cross-section for main contacts 2.5 ... 16 mm² solid 6 ... 70 mm² stranded 2.5 ... 50 mm² • finely stranded with core end processing 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 • finely stranded without core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections · for auxiliary contacts - solid or stranded 2x (0.5 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²) - finely stranded without core end processing 2x (0.5 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16) AWG number as coded connectable conductor cross section

· for auxiliary contacts Safety related data product function

Yes No

B10 value with high demand rate according to SN 31920

• mirror contact according to IEC 60947-4-1

1 000 000

10 ... 2

20 ... 14

proportion of dangerous failures • with low demand rate according to SN 31920

• positively driven operation according to IEC 60947-

• with high demand rate according to SN 31920

40 % 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

IP20

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

finger-safe, for vertical contact from the front

· safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval

· for main contacts



Confirmation





KC



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



Type Examination Certificate



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













| other Railway Dangerous Good |
|------------------------------|
|------------------------------|

<u>Confirmation</u> <u>Vibration and Shock</u> <u>Transport Information</u>

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-3NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-3NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3NP30

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

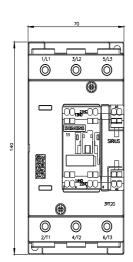
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-3NP30&lang=en

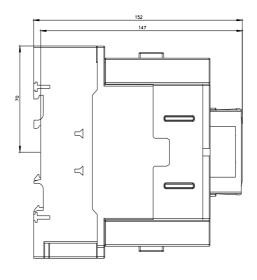
Characteristic: Tripping characteristics, I2t, Let-through current

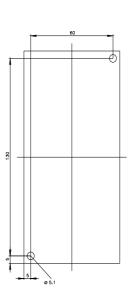
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3NP30/char

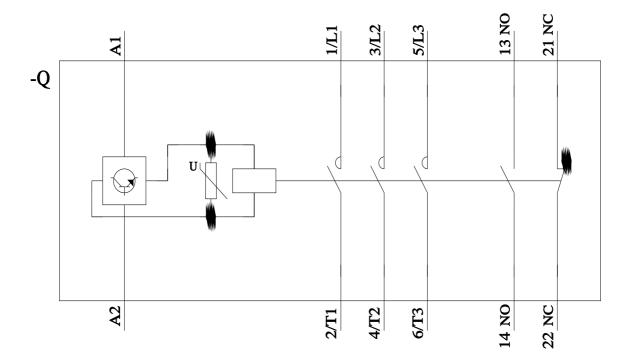
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3NP30&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸