SIEMENS

Data sheet 3RT2045-1AN20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

| 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 15.9 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W insulation voltage • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 690 V | |
|--|--|
| product type designation General technical data size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value | |
| size of contactor size of contactor product extension • function module for communication • auxiliary switch Power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value | |
| size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value | |
| • function module for communication • auxiliary switch Power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance • of main circuit rated value of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 6 kV | |
| function module for communication auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical without load current share typical of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value 6 kV | |
| power loss [W] for rated value of the current • at AC in hot operating state 15.9 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W insulation voltage • of main circuit with degree of pollution 3 rated value 1000 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 66 kV | |
| power loss [W] for rated value of the current • at AC in hot operating state 15.9 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W insulation voltage • of main circuit with degree of pollution 3 rated value 1000 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 66 kV | |
| at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical 25 W insulation voltage of main circuit with degree of pollution 3 rated value 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 | |
| without load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 6 kV | |
| insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value for auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 6 kV | |
| of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value | |
| of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value | |
| surge voltage resistance | |
| of main circuit rated value of auxiliary circuit rated value 6 kV | |
| of auxiliary circuit rated value 6 kV | |
| | |
| maximum permissible voltage for protective separation between 600 V | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | |
| shock resistance at rectangular impulse | |
| • at AC 10.3g / 5 ms, 6,.g / 10 ms | |
| shock resistance with sine pulse | |
| • at AC 16.3g / 5 ms, 10.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 | |
| • of the contactor with added auxiliary switch block typical 10 000 000 | |
| reference code according to IEC 81346-2 | |
| 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 95 % maximum | |
| Main circuit | |
| number of poles for main current circuit 3 | |

| number of NO contacts for main contacts | 3 |
|--|--------------|
| operating voltage | |
| at AC-3 rated value maximum | 1 000 V |
| • at AC-3e rated value maximum | 1 000 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated | 125 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 125 A |
| value | |
| up to 690 V at ambient temperature 60 °C rated value | 105 A |
| • at AC-3 | |
| — at 400 V rated value | 80 A |
| — at 500 V rated value | 80 A |
| — at 690 V rated value | 58 A |
| — at 1000 V rated value | 30 A |
| • at AC-3e | 30 A |
| | 00 A |
| — at 400 V rated value | 80 A 80 A |
| — at 500 V rated value | |
| — at 690 V rated value | 58 A |
| — at 1000 V rated value | 30 A |
| • at AC-4 at 400 V rated value | 66 A |
| • at AC-5a up to 690 V rated value | 110 A |
| at AC-5b up to 400 V rated value | 80 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 80 A |
| up to 400 V for current peak value n=20 rated value | 80 A |
| up to 500 V for current peak value n=20 rated value | 80 A |
| up to 690 V for current peak value n=20 rated value | 58 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 54 A |
| up to 400 V for current peak value n=30 rated value | 54 A |
| up to 500 V for current peak value n=30 rated value | 54 A |
| up to 690 V for current peak value n=30 rated value | 54 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 50 mm² |
| value operational current for approx. 200000 operating cycles at | |
| AC-4 | |
| • at 400 V rated value | 34 A |
| • at 690 V rated value | 24 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 | 0.4 A |
| with 2 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 |
| | 100 A |
| — at 220 V rated value | |
| — at 440 V rated value | 1.8 A |
| — at 600 V rated value | 1 A |
| with 3 current paths in series at DC-1 | 400 A |
| — 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 |
| | 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 |
| | 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 | 37 kW |
| • at AC-3 | |
| — at 230 V rated value | 22 kW |
| — at 400 V rated value | 37 kW |
| — at 500 V rated value | 45 kW |
| — at 690 V rated value | 55 kW |
| — at 1000 V rated value | 37 kW |
| • at AC-3e | |
| | 22 kW |
| | 37 kW |
| | 45 kW |
| | 55 kW |
| | 37 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| | 17.9 kW |
| | 21.8 kW |
| operating apparent power at AC-6a | 21.0 (1) |
| | 31 kVA |
| · | 55 kVA |
| · | 69 kVA |
| | 69 kVA |
| operating apparent power at AC-6a | |
| | 21.5 kVA |
| · | 37.4 kVA |
| | 46.7 kVA |
| | 64.5 kVA |
| short-time withstand current in cold operating state up to | |
| 40 °C | |
| limited to 1 s switching at zero current maximum | 1 500 A; Use minimum cross-section acc. to AC-1 rated value |
| • | 1 186 A; Use minimum cross-section acc. to AC-1 rated value |
| • | 851 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 538 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 423 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| | 5 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 900 1/h |

| 1400 | 400 4 11 |
|---|--|
| • at AC-2 maximum | 400 1/h |
| • at AC-3 maximum | 1 000 1/h |
| • at AC-3e maximum | 1 000 1/h |
| • at AC-4 maximum | 300 1/h |
| Control circuit/ Control | ** |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | 000 \ |
| at 50 Hz rated value | 220 V |
| at 60 Hz rated value operating range factor control supply voltage rated value of | 220 V |
| magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 348 VA |
| • at 60 Hz | 296 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.62 |
| ● at 60 Hz | 0.55 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 25 VA |
| ● at 60 Hz | 18 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.35 |
| ● at 60 Hz | 0.41 |
| closing delay | |
| • at AC | 13 50 ms |
| opening delay | |
| • at AC | 10 21 ms |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| Auxiliary circuit | 1 |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact | 1 |
| number of NC contacts for auxiliary contacts instantaneous | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous | |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum | 1 |
| 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 | 1 10 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 | 1 10 A 6 A 3 A 2 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 | 1 10 A 6 A 3 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 operational current at DC-12 | 1 10 A 6 A 3 A 2 A 1 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 operational current at DC-12 • at 24 V rated value | 1 10 A 6 A 3 A 2 A 1 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value | 1 10 A 6 A 3 A 2 A 1 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 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 | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 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 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 | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 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 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 60 V rated value • at 110 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 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 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 • at 220 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A |
| number of 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of 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 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 220 V rated value • at 600 V rated value • at 24 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of 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 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 220 V rated value • at 600 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 148 V rated value • at 110 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 10 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 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 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 100 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 30 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 10 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |

| * at 80 V rated value 77 A yielded mechanical performance (high value 1 of 15 hp 1 of 17 hp 17 h | | |
|--|--|--|
| yelded mechanical performance [hg] • for anging-phase AC motor — at 1701/25V stack value — at 2200/25V stack value — at 2200/25V stack value — at 200/25V stack value — at 200/25V stack value — at 400/45V value value — at 5700/50V value value — at 5700/50V value value — at 5700/50V value value — on 5700V value value — on 5700V value value — with type of auxiliary contacts according to UL Short circuit protection of the main crouit — with type of a signment 2 required — side by-side mounting (dimensions fastering method — side by-side mounting — with side-y-side mounting — with side-y-side mounting — with side-y-side mounting — with side-y-side mounting — one owards — at the side — owards — o | at 480 V rated value | 77 A |
| * of single-phase AC motor — at 1200 V rated value | | 62 A |
| | | |
| | for single-phase AC motor | |
| • for 3-phase AC motor — at 200208 V rated value — at 200208 V rated value — at 200208 V rated value — at 257600 V rated value — at 257600 V rated value — at 257600 V rated value — on the foreign contects according to UL ASOU / P800 Short-circuit protection design of the fuse link • 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fasterning method • created protection of the auxiliary switch required fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required fasterning method • clade-by-side mounting • for many state of the switch auxiliary switch required fasterning method • clade-by-side mounting • for many state of the switch auxiliary switch required fasterning method • for prounded parts | — at 110/120 V rated value | 7.5 hp |
| at 220/2280 V rated value | — at 230 V rated value | 15 hp |
| at 220/230 V risted value | for 3-phase AC motor | |
| at 480/480 V rated value | at 200/208 V rated value | 25 hp |
| at 575/000 V raled value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link with type of coordination 1 required with type of coordination 2 required or short oricuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method side-by-side mounting side-by-side mounting side-by-side mounting forwards upwards downwards at the side downwards at the side downwards downwards downwards forwards upwards forwards upwards forwards downwards downwards downwards forwards downwards downwards forwards forwards downwards forwards forwards forwards downwards forwards forwards downwards forwards | at 220/230 V rated value | 30 hp |
| Short-circuit protection Short-circuit protection Short-circuit protection Short-circuit protection of the main circuit | — at 460/480 V rated value | 60 hp |
| Short-circuit protection design of the fuse link - with type of condination 1 required - with type of assignment 2 required - with type of assignment 2 required - or short-circuit protection of the auxiliary switch required Installation mounting/dimensions mounting position fastening method - side-by-side mounting Yes sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 - side-by-side mounting Yes sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 - side-by-side mounting Yes - with side-by-side mounting - forwards - upwards - downwards - or ownedd parts - forwards - upwards - of or or ond parts - forwards - upwards - of or or ond parts - forwards - upwards - of orman current circuit - downwards - for main current circuit - downwards - of orman current circuit - or manufactor for auxiliary contacts - of magnet coil type of connectable conductor cross-sections for main contacts - sield or stranded - finely stranded with core and processing | — at 575/600 V rated value | 60 hp |
| design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — of reshort-circuit protection of the auxiliary switch required Installation/ munoriting/ dimensions mounting position — #./180* rotation possible on vertical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for mounting surface; can be tilted forward and backward by #-2.5 for mo | contact rating of auxiliary contacts according to UL | A600 / P600 |
| • for short-circuit protection of the main circuit — with type of coordination 1 required • with type of coordination 1 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 • 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 stephen switch | Short-circuit protection | |
| - with type of assignment 2 required | design of the fuse link | |
| - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 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 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surface; can be tilted forward and backward by 4: 22.5* on minuting surfac | for short-circuit protection of the main circuit | |
| - with type of assignment 2 required | — 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 |
| Installation mounting dimensions Marchaelian Marchael | | kA) |
| instaliation/ mounting dimensions mounting position ##.180" rotation possible on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 22.5" on vertical mounting surface; can be titled forward and backward by ##. 20 mm ##.100 mm ##.100 mm ##.100 mm #.100 mm ##.100 mm | — with type of assignment 2 required | gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) |
| Mounting position | | gG: 10 A (500 V, 1 kA) |
| backward by +- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 vidth | Installation/ mounting/ dimensions | |
| screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting width yes 140 mm width 70 mm depth 152 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — 10 mm — at the side • for grounded parts — upwards — 10 mm • at the side • for ilve parts — downwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — of manufactor for incident of the side — downwards — of manufactor for auxiliary contacts • of magnet coil ype of connectable conductor cross-sections for main contacts • finely stranded with core end processing connectable conductor cross-section for mailiary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded • finely stranded • finely stranded • finely stranded • | mounting position | |
| e side-by-side mounting height width 70 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — for grounded parts — for wards — upwards — 10 mm • for grounded parts — upwards — 10 mm — at the side — 10 mm • for live parts — forwards — upwards — 10 mm — of wards — upwards — 10 mm — odwnwards — 10 mm — odwnwards — 10 mm — at the side — 10 mm — odwnwards — the side — 10 mm — of a usualizary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts | | , · |
| Neight 140 mm 70 mm 6 | _ | |
| width 70 mm depth 152 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - upwards 10 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • for auxiliary accontrol circuit screw-type terminals • for auxiliary contacts screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-section for main contacts soild • finely stranded with core end processing 2.5 36 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for auxiliary contacts soild or stranded • finely stranded with core end processing 0.5 2.5 mm² connectable conductor cross-sections< | | |
| required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — 10 mm • for grounded parts — upwards — upwards — 10 mm — at the side — upwards — 10 mm — at the side — upwards — 10 mm — downwards — 10 mm — odwnwards — of live parts — forwards — upwards — upwards — 10 mm — at the side — upwards — 10 mm — to main unit of live parts — forwards — upwards — upwards — 10 mm — at the side — to main unit of live parts — for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts | | |
| required spacing with side-by-side mounting — forwards — upwards — downwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — upwards — upwards — downwards — downwards — at the side — downwards — at the side — downwards — for live parts — forwards — upwards — to mm — at the side — downwards — upwards — side — sold eattrical connection — sore—type terminals Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals yer of connectable conductor cross-sections for main contacts • solid • solid • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • for auxiliary contacts | width | 70 mm |
| with side-by-side mounting forwards upwards downwards 10 mm downwards at the side 0 mm for grounded parts upwards upwards upwards upwards 10 mm at the side 10 mm downwards 10 mm for live parts forwards upwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm for a unification of real connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts sinely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts finely stranded with core end processing finely stranded finely stranded with core end processing for auxiliary contacts | depth | 152 mm |
| forwards 20 mm upwards 10 mm downwards 0 mm at the side 0 mm forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm forwards 20 mm upwards 10 mm forwards 10 mm forwards 10 mm downwards 10 mm at the side 50 mm upwards 10 mm at the side 50 mm | required spacing | |
| - upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - forwards - upwards - forwards - upwards - downwards - upwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - downwards - 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 • of magnet coil - type of connectable conductor cross-sections for main contacts • shiely stranded with core end processing - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts | with side-by-side mounting | |
| - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - downwards - for live parts - forwards - upwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - forwards - upwards - upwards - upwards - downwards - upwards - downwards - downwards - downwards - at the side - to mm | — forwards | 20 mm |
| - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - forwards - upwards - downwards 10 mm - downwards 10 mm - downwards - upwards - downwards - at the side 10 mm - downwards - at the side 10 mm - downwards - or upwards - or main current circuit - or main contacts - or | — upwards | 10 mm |
| • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — to many and selections * for auxiliary and control circuit — for auxiliary and control circuit — to many and control circuit — to for auxiliary and control circuit — to for auxiliary and control circuit — to for auxiliary contacts — of magnet coil type of connectable conductor cross-sections for main contacts — solid — stranded — finely stranded with core end processing — to many and selections — | — downwards | 10 mm |
| forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm • for live parts forwards 20 mm upwards 10 mm downwards 50 mm at the side 50 mm | — at the side | 0 mm |
| - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 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 • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts • finely stranded with core end processing 2.5 50 mm² connectable conductor cross-section for auxiliary contacts • solid 5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts | for grounded parts | |
| - at the side | — forwards | 20 mm |
| - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts | — upwards | 10 mm |
| • for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing for auxiliary contacts • for auxiliary contacts • for auxiliary contacts | — at the side | 10 mm |
| - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts • solid 2.5 16 mm² • stranded 6 70 mm² • finely stranded with core end processing 2.5 50 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts | — downwards | 10 mm |
| - upwards - downwards - 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 • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid of inely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid of stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts | • for live parts | |
| - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts • solid 2.5 16 mm² • stranded 6 70 mm² • finely stranded with core end processing 2.5 50 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts | — forwards | 20 mm |
| - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts | — upwards | 10 mm |
| | • | 10 mm |
| type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • finely stranded with core end processing • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts | | |
| type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • solid • stranded • stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts | | |
| • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded • finely stranded • finely stranded • finely stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts | | |
| • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded • finely stranded • finely stranded • finely stranded with core end processing • for auxiliary contacts | • | screw-type terminals |
| at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts finely stranded with core end processing solid stranded stranded finely stranded with core end processing 2.5 16 mm² stranded finely stranded with core end processing finely stranded with core end processing solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing for auxiliary contacts | | |
| of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts for auxiliary contacts | • | • |
| type of connectable conductor cross-sections for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts | • | |
| finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing for auxiliary contacts for auxiliary contacts | | on type terminals |
| connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts | • | 2v /2 5 35 mm²\ 1v /2 5 50 mm²\ |
| solid stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts | | ZA (Z.J JJ HIIII), TA (Z.J JU HIIII ⁻) |
| stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts | | 2.5 16 mm² |
| finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts | | |
| connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts | | |
| solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts 0.5 2.5 mm² 0.5 2.5 mm² | | 2.5 50 mm² |
| finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts | - | |
| type of connectable conductor cross-sections • for auxiliary contacts | solid or stranded | |
| • for auxiliary contacts | | 0.5 2.5 mm ² |
| | type of connectable conductor cross-sections | |
| — solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | • for auxiliary contacts | |
| | — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |

| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
|--|--|
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 10 2 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| positively driven operation according to IEC 60947-5-1 | No |
| suitability for use safety-related switching OFF | Yes |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Certificates/ approvals | |

General Product Approval





Confirmation



<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













other Railway Dangerous Good Environment

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

Further information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1AN20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AN20

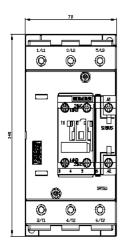
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-1AN20&lang=en

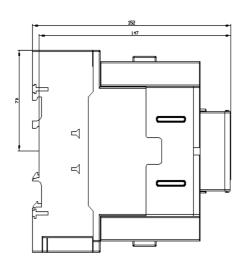
Characteristic: Tripping characteristics, I2t, Let-through current

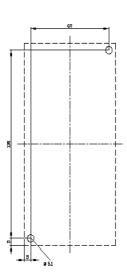
https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AN20/char

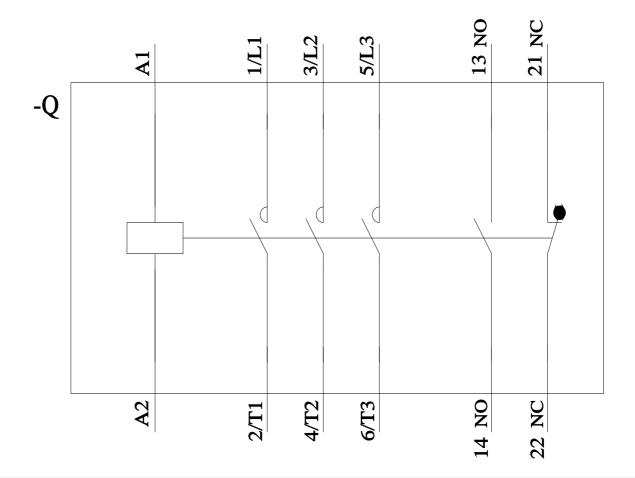
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1AN20&objecttype=14&gridview=view1









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Mouser Electronics

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