SIEMENS

Data sheet 3RT2047-1AC20



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

Figure similar

| | OIDHIO |
|--|----------------------------|
| 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 | 23.7 W |
| at AC in hot operating state per pole | 7.9 W |
| without load current share typical | 25 W |
| type of calculation of power loss depending on pole | quadratic |
| 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 protective separation 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 |
| 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 | 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) | 07/31/2018 |
| Weight | 1.719 kg |
| 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 · · · · | |
|---|---------|
| ain circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| pperating 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 value | 130 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 130 A |
| — up to 690 V at ambient temperature 60 °C rated value | 110 A |
| • at AC-3 | |
| — at 400 V rated value | 110 A |
| — at 500 V rated value | 110 A |
| — at 690 V rated value | 98 A |
| — at 1000 V rated value | 30 A |
| • at AC-3e | |
| — at 400 V rated value | 110 A |
| — at 500 V rated value | 110 A |
| — at 690 V rated value | 98 A |
| — at 1000 V rated value | 30 A |
| • at AC-4 at 400 V rated value | 97 A |
| • at AC-5a up to 690 V rated value | 120 A |
| at AC-5b up to 400 V rated value | 110 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 98 A |
| — up to 400 V for current peak value n=20 rated value | 98 A |
| — up to 500 V for current peak value n=20 rated value | 98 A |
| up to 690 V for current peak value n=20 rated value | 98 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 65.3 A |
| up to 400 V for current peak value n=30 rated value | 65.3 A |
| — up to 500 V for current peak value n=30 rated value | 65.3 A |
| — up to 690 V for current peak value n=30 rated value | 65.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 50 mm² |
| operational current for approx. 200000 operating cycles at | |
| at 400 V rated value | 46 A |
| at 690 V rated value at 690 V rated value | 36 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 100 V rated value — at 110 V rated value | 100 A |
| — at 110 V rated value — at 220 V rated value | 10 A |
| — at 440 V rated value — at 440 V rated value | 1.8 A |
| | |
| | 1 A |
| — at 600 V rated value | |
| - at 600 V rated value • with 3 current paths in series at DC-1 - at 24 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 | 55 kW |
| • at AC-3 | |
| — at 230 V rated value | 30 kW |
| — at 400 V rated value | 55 kW |
| — at 500 V rated value | 75 kW |
| — at 690 V rated value | 90 kW |
| — at 1000 V rated value | 37 kW |
| • at AC-3e | |
| — at 230 V rated value | 30 kW |
| — at 400 V rated value | 55 kW |
| — at 500 V rated value | 75 kW |
| — at 690 V rated value | 90 kW |
| — at 1000 V rated value | 37 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| at 400 V rated value | 24.3 kW |
| at 690 V rated value | 32.9 kW |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=20 rated value | 39 kVA |
| • up to 400 V for current peak value n=20 rated value | 67 kVA |
| • up to 500 V for current peak value n=20 rated value | 84 kVA |
| • up to 690 V for current peak value n=20 rated value | 117 kVA |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=30 rated value | 26 kVA |
| • up to 400 V for current peak value n=30 rated value | 45.2 kVA |
| • up to 500 V for current peak value n=30 rated value | 56.5 kVA |
| • up to 690 V for current peak value n=30 rated value | 78 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| • limited to 1 s switching at zero current maximum | 1 960 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 1 502 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 10 s switching at zero current maximum | 1 095 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 707 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 60 s switching at zero current maximum | 562 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| V 11: V | |

| -1.00 | E 000 4/l- |
|---|--|
| • at AC | 5 000 1/h |
| operating frequency | 000 4 11- |
| • at AC-1 maximum | 900 1/h |
| • at AC-2 maximum | 350 1/h |
| • at AC-3 maximum | 850 1/h |
| • at AC-3e maximum | 850 1/h |
| • at AC-4 maximum | 200 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 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 | OF WA |
| • at 50 Hz | 25 VA |
| • at 60 Hz | 18 VA |
| inductive power factor with the holding power of the coil | 0.25 |
| • at 50 Hz | 0.35 |
| • at 60 Hz | 0.41 |
| closing delay • at AC | 13 50 ms |
| opening delay | 10 00 1110 |
| opening usiay | |
| • at AC | 10 21 ms |
| • at AC | 10 21 ms |
| arcing time | 10 21 ms 10 20 ms Standard A1 - A2 |
| arcing time control version of the switch operating mechanism | 10 20 ms |
| arcing time | 10 20 ms |
| arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous | 10 20 ms Standard A1 - A2 |
| 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 | 10 20 ms Standard A1 - A2 |
| 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 | 10 20 ms Standard A1 - A2 1 |
| 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 | 10 20 ms Standard A1 - A2 1 |
| 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 | 10 20 ms Standard A1 - A2 1 1 10 A |
| 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 | 10 20 ms Standard A1 - A2 1 1 10 A |
| 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 | 10 20 ms Standard A1 - A2 1 1 1 1 A 6 A 3 A |
| 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 500 V rated value | 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A |
| 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 500 V rated value • at 690 V rated value | 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value | 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A |
| 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 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 | 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A |
| 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 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 60 V rated value • at 110 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A |
| 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 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 110 V rated value • at 125 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 7 A 8 A 9 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A |
| 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 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 | 10 20 ms Standard A1 - A2 1 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| 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 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 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value | 10 20 ms Standard A1 - A2 1 1 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 10 A |
| 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 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 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value | 10 20 ms Standard A1 - A2 1 1 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 10 A 10 A 2 A 1 A 10 A |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 240 V rated value • at 240 V rated value • at 600 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 10 A 10 A 10 A 10 A 10 A 10 A 2 A 1 A 10 A 2 A 2 A 1 A |
| 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 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 220 V rated value • at 600 V rated value | 10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 10 A |
| 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 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 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value | 10 20 ms Standard A1 - A2 1 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 10 A 0.15 A |

| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
|---|---|
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 96 A |
| at 600 V rated value | 99 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 10 hp |
| — at 230 V rated value | 20 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 30 hp |
| — at 220/230 V rated value | 40 hp |
| — at 460/480 V rated value | 75 hp |
| — at 575/600 V rated value | 100 hp |
| contact rating of auxiliary contacts according to UL | A600 / P600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| with type of coordination 1 required | gG: 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: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) |
| • for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
| factoria a mother d | backward by +/- 22.5° on vertical mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 140 mm |
| width | 70 mm |
| depth | 152 mm |
| required spacing | |
| with side-by-side mounting forwards | 20 mm |
| — forwards | 10 mm |
| — upwards — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | O THILL |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| for live parts | 10 111111 |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — upwards — downwards | 10 mm |
| — at the side | 10 mm |
| Connections/ Terminals | IV IIIII |
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals Screw-type terminals |
| of magnet coil | Screw-type terminals Screw-type terminals |
| type of connectable conductor cross-sections | - 1. 1. 1, po to |
| • for main contacts | |
| — finely stranded with core end processing | 2x (2.5 35 mm²), 1x (2.5 50 mm²) |
| for AWG cables for main contacts | 2x (10 1/0), 1x (10 2) |
| 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 |
| - odia di dianada | 0.0 <u>2.0</u> |

| finely stranded with core end processing | 0.5 2.5 mm² |
|--|-------------------------------------|
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross section | |
| • for main contacts | 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 |
| suitable for safety function | Yes |
| suitability for use safety-related switching OFF | Yes |
| service life maximum | 20 a |
| test wear-related service life necessary | Yes |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| ISO 13849 | |
| device type according to ISO 13849-1 | 3 |
| overdimensioning according to ISO 13849-2 necessary | Yes |
| IEC 61508 | |
| safety device type according to IEC 61508-2 | Type A |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP20 |
| | |

(

Approvals Certificates

General Product Approval



touch protection on the front according to IEC 60529

Confirmation

Miscellaneous

finger-safe, for vertical contact from the front



Confirmation

other

other Environment

Miscellaneous

Environmental Confirmations Environmental Confirmations

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)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AC20

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

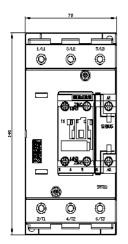
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AC20&lang=en

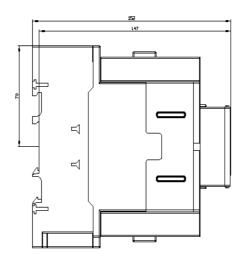
Characteristic: Tripping characteristics, I2t, Let-through current

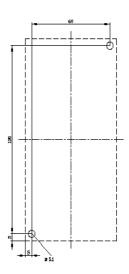
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AC20/char

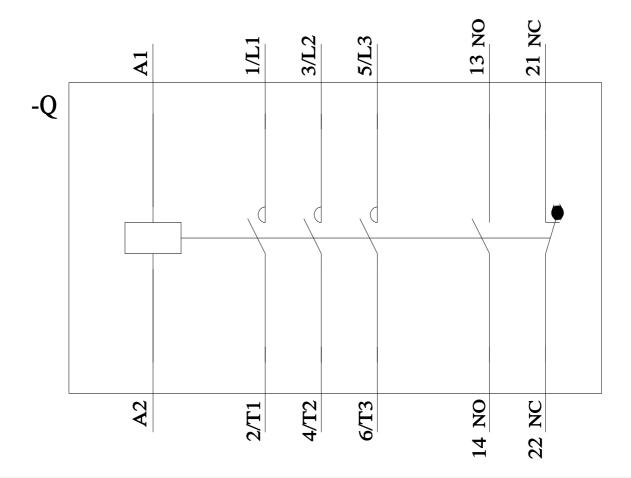
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AC20&objecttype=14&gridview=view1









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