SIEMENS

Data sheet 3RT2028-2NB30



Power contactor, AC-3 38 A, 18.5 kW / 400 V 1 NO + 1 NC AC (50 - 60 Hz) / DC 21-28 V AC / DC, 3-pole Size S0, Spring-type terminals

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S0 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current at AC in hot operating state | 11.4 W |
| • per pole | 3.8 W |
| power loss [W] for rated value of the current without load current share typical | 2 W |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,3g / 5 ms, 5,3g / 10 ms |
| • at DC | 10g / 5 ms, 7,5g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 13,5g / 5 ms, 8,3g / 10 ms |
| • at DC | 15g / 5 ms, 10g / 10 ms |
| mechanical service life (switching 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 acc. to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 01.10.2009 00:00:00 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature during operation | -25 +60 °C |
| ambient temperature during storage | -55 +80 °C |
| Main circuit | |
| number of poles for main current circuit | 3 |
| | |

| number of NO contacts for main contacts | 3 |
|---|--------|
| operating voltage at AC-3 rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 50 A |
| • at AC-1 | |
| up to 690 V at ambient temperature 40 °C rated value | 50 A |
| up to 690 V at ambient temperature 60 °C rated value | 42 A |
| • at AC-3 | |
| — at 400 V rated value | 38 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value | 21 A |
| at AC-4 at 400 V rated value | 22 A |
| at AC-5a up to 690 V rated value | 44 A |
| at AC-5b up to 400 V rated value | 31.5 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 30.8 A |
| up to 400 V for current peak value n=20 rated value | 30.8 A |
| up to 500 V for current peak value n=20 rated value | 30.8 A |
| — up to 690 V for current peak value n=20 rated value | 21 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 20.5 A |
| — up to 400 V for current peak value n=30 rated value | 20.5 A |
| — up to 500 V for current peak value n=30 rated value | 21.4 A |
| — up to 690 V for current peak value n=30 rated value | 21 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 10 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 12 A |
| at 690 V rated value | 12 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.25 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1 A |
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 35 A |
| — at 440 V rated value | 2.9 A |
| — at 600 V rated value | 1.4 A |
| operational current | |

| -1.4 | |
|--|---|
| • at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 2.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.09 A |
| — at 600 V rated value | 0.06 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 3 A |
| — at 440 V rated value | 0.27 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 10 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| operating power | |
| • at AC-2 at 400 V rated value | 18.5 kW |
| • at AC-3 | |
| — at 230 V rated value | 11 kW |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 18.5 kW |
| — at 690 V rated value | 18.5 kW |
| operating power for approx. 200000 operating cycles | |
| at AC-4 | CIAM |
| at 400 V rated value | 6 kW |
| at 690 V rated value | 10.3 kW |
| operating apparent power at AC-6a | 42.2 12/ 4 |
| • up to 230 V for current peak value n=20 rated value | 12.2 kV·A |
| • up to 400 V for current peak value n=20 rated value | 21.3 kV·A |
| • up to 500 V for current peak value n=20 rated value | 26.6 kV·A |
| • up to 690 V for current peak value n=20 rated value | 25 kV·A |
| operating apparent power at AC-6a | 0 1 bV. A |
| • up to 230 V for current peak value n=30 rated value | 8.1 kV·A |
| • up to 400 V for current peak value n=30 rated value | 14.2 kV·A |
| • up to 500 V for current peak value n=30 rated value | 18.5 kV·A |
| up to 690 V for current peak value n=30 rated value short time withstand current in cold operating state. | 25 kV·A |
| short-time withstand current in cold operating state up to 40 °C | |
| Iimited to 1 s switching at zero current maximum | 593 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 395 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 260 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 186 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 152 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | , 222 |
| • at AC | 1 500 1/h |
| • at DC | 1 500 1/h |
| operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 21 28 V |
| at 60 Hz rated value | 21 28 V |
| | |

| ontrol supply voltage at DC | | _ |
|--|---|------------------|
| Operating range factor control supply voltage rated value of magnet coil at DC | | |
| value of magnet coll at DC • Initial value • (III) scale value • (III | | 21 28 V |
| • full-scale value operating range factor control supply voltage rated value of magnet coll at AC • at 50 Hz • at 60 Hz of 50 | | |
| operating range factor control supply voltage rated value of magnet coil at AC | initial value | 0.7 |
| value of magnet coil at AC | full-scale value | 1.3 |
| | | |
| • at 60 Hz 0.7 1.3 | _ | |
| design of the surge suppressor | | |
| Inrush current peak 3 A | | |
| duration of inrush current peak 10cked-rotor current mean value 0.3 A 10cked-rotor current mean value 0.5 A 10cked-rotor current peak 0.5 A 10cked-rotor current 180 ms 180 | | |
| Dicked-rotor current mean value 0.3 A 10 10 10 10 10 10 10 | - | |
| Induction of locked-rotor current 180 ms 1 | | |
| duration of locked-rotor current 180 ms holding current mean value 45 mA apparent pick-up power of magnet coil at AC at 50 Hz 6.6 V-A at 60 Hz 6.7 V-A inductive power factor with closing power of the coil at 50 Hz 0.98 apparent holding power of magnet coil at AC at 50 Hz 0.98 apparent holding power of magnet coil at AC at 50 Hz 1.9 V-A at 60 Hz 2 V-A at 60 Hz 2 V-A at 60 Hz 0.86 at 50 Hz 0.82 closing power factor with the holding power of the coil at 50 Hz 0.82 at 60 Hz 0.82 closing power of magnet coil at DC 0.82 closing power of magnet coil at DC 0.98 at AC 0.80 ms at AC 0 80 ms at DC 0 75 ms opening delay at AC 30 45 ms at DC 30 45 ms arcing time 10 10 ms | | |
| Abolding current mean value | | |
| apparent pick-up power of magnet coll at AC | | 180 ms |
| | - | 45 mA |
| ■ at 60 Hz 0.98 | | |
| inductive power factor with closing power of the coil • at 50 Hz | | |
| ■ at 50 Hz ■ at 60 Hz ■ apparent holding power of magnet coil at AC ■ at 50 Hz ■ at 60 Hz ■ at 50 Hz ■ at 60 Hz ■ at AC ■ at AC ■ at DC ■ at 30 45 ms ■ arcing time □ 10 10 ms ■ arcing time □ 10 10 ms ■ arcing time □ 10 10 ms ■ control version of the switch operating mechanism ■ at 30 V at contacts for auxiliary contacts instantaneous contact □ number of NC contacts for auxiliary contacts instantaneous contact □ number of NC contacts for auxiliary contacts instantaneous contact □ 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 690 V rated value ■ at 600 V rated value ● a | | 6.7 V·A |
| | inductive power factor with closing power of the coil | |
| apparent holding power of magnet coil at AC at 150 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 60 Hz 0.86 at 60 Hz 0.82 closing power of magnet coil at DC 5.9 W holding power of magnet coil at DC closing delay at AC at AC at AC at DC 0pening delay at AC at DC 30 45 ms arcing time control version of the switch operating mechanism Control version of the switch operating mechanism 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 operational current at AC-12 maximum operational current at AC-12 maximum at 400 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 64 V rated value at 64 V rated value at 65 V rated value at 66 V rated value at 66 V rated value at 60 V rated value | ● at 50 Hz | 0.98 |
| • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at AC • at DC • at 230 V rated value • at 400 V rated value • at 480 V rated value • at 60 V rated value • at 48 V rated value • at 60 V rated value | | 0.98 |
| • at 60 Hz 2 V·A | apparent holding power of magnet coil at AC | |
| inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.82 closing power of magnet coil at DC 5.9 W holding power of magnet coil at DC 1.4 W closing delay at AC at DC 60 80 ms at DC opening delay at AC at DC 30 45 ms arcing time 10 10 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 60 V rated value at 48 V rated value at 60 V rated value | ● at 50 Hz | 1.9 V·A |
| coil | ● at 60 Hz | 2 V·A |
| • 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 of at DC at DC according time control version of the switch operating mechanism Auxilliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 48 V rated value at 40 V rated va | ● at 50 Hz | 0.86 |
| holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC opening delay at AC at DC other delay at AC at DC arcing time control version of the switch operating mechanism 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 690 V rated value at 690 V rated value at 48 V rated value at | ● at 60 Hz | 0.82 |
| closing delay • at AC • at DC 60 80 ms 60 75 ms opening delay • at AC • at DC 30 45 ms arcing time 10 10 ms 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 A 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 48 V rated value • at 60 V rated value | closing power of magnet coil at DC | 5.9 W |
| ● at AC ● at DC ● at DC opening delay ● at AC ● at DC 30 45 ms arcing time 10 10 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 ● at 230 V rated value ● at 400 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 | holding power of magnet coil at DC | 1.4 W |
| at DC opening delay at AC at DC opening delay at DC opening delay at AC at DC opening delay arcing time arcing time 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 NC 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 48 V rated value at 4 | closing delay | |
| opening delay • at AC • at DC 30 45 ms arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value | • at AC | 60 80 ms |
| at AC at DC 30 45 ms arcing time 10 10 ms Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 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 20 V rated value at 21 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 3 A | • at DC | 60 75 ms |
| ■ at DC arcing time | opening delay | |
| 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 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 61 V rated value • at 61 V rated value • at 110 V rated value | • at AC | 30 45 ms |
| 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 • 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 60 V rated value • at 110 V rated value | • at DC | 30 45 ms |
| 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 • 3 A | - | 10 10 ms |
| 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 | control version of the switch operating mechanism | Standard A1 - A2 |
| 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 48 V rated value • at 60 V rated value | Auxiliary circuit | |
| 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 60 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 3 A | | 1 |
| operational current at AC-15 | · · · · · · · · · · · · · · · · · · · | 1 |
| 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 60 V rated value at 60 V rated value at 110 V rated value 3 A | operational current at AC-12 maximum | 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 60 V rated value at 60 V rated value at 110 V rated value 3 A | operational current at AC-15 | |
| 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 60 V rated value at 110 V rated value 3 A | | 10 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 3 A | at 400 V rated value | 3 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 3 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 3 A | at 690 V rated value | 1 A |
| at 48 V rated value at 60 V rated value at 110 V rated value 3 A | operational current at DC-12 | |
| at 60 V rated value at 110 V rated value 3 A | • at 24 V rated value | 10 A |
| • at 110 V rated value 3 A | • at 48 V rated value | 6 A |
| | • at 60 V rated value | 6 A |
| a at 125 V rated value | • at 110 V rated value | 3 A |
| | • at 125 V rated value | 2 A |
| • at 220 V rated value 1 A | • at 220 V rated value | 1 A |
| • at 600 V rated value 0.15 A | • at 600 V rated value | 0.15 A |

| | _ |
|---|--|
| operational current at DC-13 | |
| at 24 V rated value | 10 A |
| at 48 V rated value | 2 A |
| at 60 V rated value | 2 A |
| at 110 V rated value | 1 A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| • at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 34 A |
| at 600 V rated value | 27 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 3 hp |
| — at 230 V rated value | 5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 10 hp |
| — at 220/230 V rated value | 10 hp |
| — at 460/480 V rated value | 25 hp |
| — at 575/600 V rated value | |
| contact rating of auxiliary contacts according to UL | 25 hp A600 / P600 |
| | A000 / F000 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | ~C. 425A (C00\/ 400\A) ~M. 50A (C00\/ 400\A) BC00. 425A |
| — with type of coordination 1 required | gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) |
| — with type of assignment 2 required | gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| height | 102 mm |
| width | 45 mm |
| depth | 107 mm |
| required spacing | TVI IIIII |
| with side-by-side mounting | |
| with side-by-side mounting — forwards | 10 mm |
| — lorwards — upwards | 10 mm |
| — upwards — downwards | 10 mm |
| — downwards — at the side | |
| | 0 mm |
| for grounded parts forwards | 10 mm |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — at the side | 6 mm |
| — downwards | 10 mm |
| • for live parts | 40 |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| | |

| for main current circuit | spring-loaded terminals | |
|--|--|-----|
| for auxiliary and control circuit | spring-loaded terminals | |
| at contactor for auxiliary contacts | Spring-type terminals | |
| of magnet coil | Spring-type terminals Spring-type terminals | |
| type of connectable conductor cross-sections | Spring-type terminals | |
| • for main contacts | | |
| — solid | 2x (1 10 mm²) | |
| solid or stranded | 2x (1 10 mm²) | |
| — finely stranded with core end processing | 2x (1 6 mm²) | |
| — finely stranded with core end processing | 2x (1 6 mm²) | |
| at AWG cables for main contacts | 2x (18 8) | |
| connectable conductor cross-section for main | ZX (10 0) | |
| contacts | | |
| • solid | 1 10 mm² | |
| • stranded | 1 10 mm² | |
| finely stranded with core end processing | 1 6 mm² | |
| • finely stranded without core end processing | 1 6 mm² | |
| connectable conductor cross-section for auxiliary contacts | | |
| solid or stranded | 0.5 2.5 mm² | |
| finely stranded with core end processing | 0.5 1.5 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 14) | |
| AWG number as coded connectable conductor cross section for main contacts | 18 8 | |
| AWG number as coded connectable conductor cross section for auxiliary contacts | 20 14 | |
| Safety related data | | |
| B10 value with high demand rate acc. to SN 31920 | 1 000 000 | |
| proportion of dangerous failures | | |
| with low demand rate acc. to SN 31920 | 40 % | |
| with high demand rate acc. to SN 31920 | 73 % | |
| failure rate [FIT] with low demand rate acc. to SN 31920 | 100 FIT | |
| product function | | |
| mirror contact acc. to IEC 60947-4-1 | Yes | |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y | |
| protection class IP on the front acc. to IEC 60529 | IP20 | |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front | |
| suitability for use safety-related switching OFF | Yes | |
| Certificates/ approvals | | |
| General Product Approval | | EMC |







<u>KC</u>





Declaration of Conformity Test Certificates Marine / Shipping



Special Test Certificate Type Test
Certificates/Test
Report

Miscellaneous



Marine / Shipping













other

Confirmation



Confirmation

Further information

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=3RT2028-2NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-2NB30

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2NB30

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

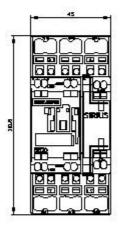
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-2NB30\&lang=en}}$

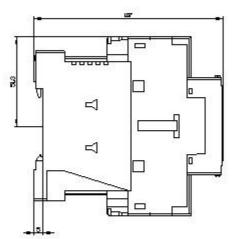
Characteristic: Tripping characteristics, I2t, Let-through current

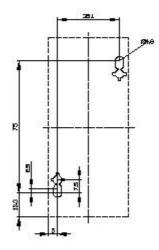
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2NB30/char}$

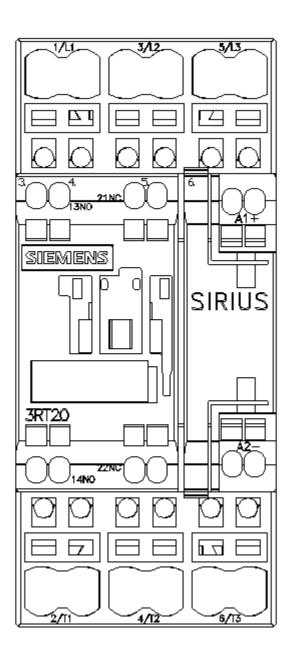
Further characteristics (e.g. electrical endurance, switching frequency)

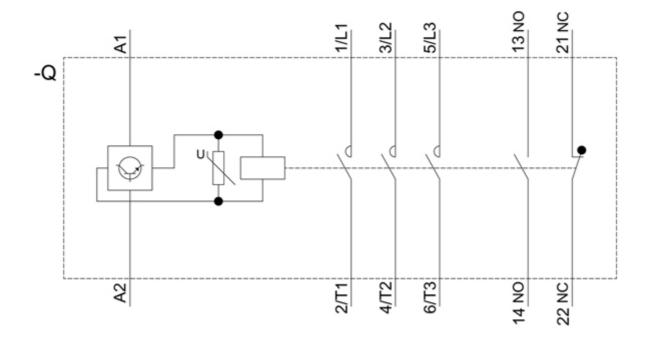
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-2NB30&objecttype=14&gridview=view1











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