SIEMENS

Data sheet

3RT2035-1NB30



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal

| 1013 | |
|---|---------------------------|
| product brand name | SIRIUS |
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S2 |
| 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 | 6.6 W |
| at AC in hot operating state per pole | 2.2 W |
| without load current share typical | 2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 7.7g / 5 ms, 4.5g / 10 ms |
| • at DC | 7.7g / 5 ms, 4.5g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 12g / 5 ms, 7g / 10 ms |
| • at DC | 12g / 5 ms, 7g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2014 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |

| Main circuit | |
|--|--------------------|
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value | 60 A |
| at AC-1 up to 690 V at ambient temperature 40 °C rated value | 60 A |
| — up to 690 V at ambient temperature 60 °C rated value | 55 A |
| • at AC-3 | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| • at AC-3e | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| at AC-4 at 400 V rated value | 35 A |
| at AC-5a up to 690 V rated value | 52.8 A |
| at AC-5b up to 400 V rated value | 33.2 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 36.5 A |
| up to 400 V for current peak value n=20 rated value | 36.5 A |
| — up to 500 V for current peak value n=20 rated value | 36.5 A |
| — up to 690 V for current peak value n=20 rated value at AC-6a | 24 A |
| at AC-ba — up to 230 V for current peak value n=30 rated value | 24.2 A |
| — up to 400 V for current peak value n=30 rated value | 24.2 A |
| — up to 500 V for current peak value n=30 rated value | 24.2 A |
| — up to 690 V for current peak value n=30 rated value | 24 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 16 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 22 A |
| at 690 V rated value | 18.5 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 55 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 | 55 A |
| — at 110 V rated value | 45 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1A |
| — at 600 V rated value | 0.8 A |
| • with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 45 A |

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| — at 440 V rated value | 2.9 A | | | |
|--|---|--|--|--|
| — at 600 V rated value | 1.4 A | | | |
| at 1 current path at DC-3 at DC-5 | | | | |
| — at 24 V rated value | 35 A | | | |
| — at 220 V rated value | 1 A | | | |
| — at 440 V rated value | 0.1 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 | 55 A | | | |
| — at 110 V rated value | 25 A | | | |
| — at 220 V rated value | 5 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 | 55 A | | | |
| — at 110 V rated value | 55 A | | | |
| — at 220 V rated value | 25 A | | | |
| — at 440 V rated value | 0.6 A | | | |
| — at 600 V rated value | 0.35 A | | | |
| operating power | 0.00 A | | | |
| • 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 | 22 kW | | | |
| — at 690 V rated value | 22 kW | | | |
| ● at AC-3e | | | | |
| — at 230 V rated value | 11 kW | | | |
| — at 400 V rated value | 18.5 kW | | | |
| — at 500 V rated value | 22 kW | | | |
| — at 690 V rated value | 22 kW | | | |
| operating power for approx. 200000 operating cycles at AC-4 | | | | |
| at 400 V rated value | 11.6 kW | | | |
| at 690 V rated value | 16.8 kW | | | |
| operating apparent power at AC-6a | | | | |
| up to 230 V for current peak value n=20 rated value | 14.5 kVA | | | |
| up to 400 V for current peak value n=20 rated value | 25.2 kVA | | | |
| up to 500 V for current peak value n=20 rated value | 31.6 kVA | | | |
| up to 690 V for current peak value n=20 rated value | 28.6 kVA | | | |
| operating apparent power at AC-6a | | | | |
| up to 230 V for current peak value n=30 rated value | 9.6 kVA | | | |
| up to 400 V for current peak value n=30 rated value | 16.8 kVA | | | |
| up to 500 V for current peak value n=30 rated value | 21 kVA | | | |
| • up to 690 V for current peak value n=30 rated value | 28.6 kVA | | | |
| short-time withstand current in cold operating state up to 40 °C | | | | |
| limited to 1 s switching at zero current maximum | 843 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 5 s switching at zero current maximum | 596 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 10 s switching at zero current maximum | 400 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 30 s switching at zero current maximum | 241 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 60 s switching at zero current maximum | 196 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| no-load switching frequency | | | | |
| • at AC | 1 500 1/h | | | |
| • at DC | 1 500 1/h | | | |
| operating frequency | | | | |
| at AC-1 maximum | 1 200 1/h | | | |
| • at AC-2 maximum | 750 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/DC | | | |
| control supply voltage at AC | | | | |

control supply voltage at AC

| at 50 Hz rated value | 20 33 V | | | | |
|--|--|--|--|--|--|
| at 60 Hz rated value | 20 33 V | | | | |
| control supply voltage at DC | | | | | |
| rated value | 20 33 V | | | | |
| operating range factor control supply voltage rated value of magnet coil at DC | | | | | |
| initial value | 0.8 | | | | |
| full-scale value | 1.1 | | | | |
| operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz | 0.8 1.1 | | | | |
| • at 50 Hz | 0.8 1.1 | | | | |
| design of the surge suppressor | 0.8 1.1 with varistor | | | | |
| inrush current peak | 3 A | | | | |
| duration of inrush current peak | 5Α 50 μs | | | | |
| locked-rotor current mean value | 50 µs 1 A | | | | |
| locked-rotor current peak | 2.6 A | | | | |
| duration of locked-rotor current | 230 ms | | | | |
| holding current mean value | 40 mA | | | | |
| apparent pick-up power of magnet coil at AC | | | | | |
| • at 50 Hz | 40 VA | | | | |
| • at 60 Hz | 40 VA | | | | |
| apparent holding power of magnet coil at AC | | | | | |
| • at 50 Hz | 2 VA | | | | |
| • at 60 Hz | 2 VA | | | | |
| closing power of magnet coil at DC | 23 W | | | | |
| holding power of magnet coil at DC | 1 W | | | | |
| closing delay | | | | | |
| • at AC | 35 110 ms | | | | |
| • at DC | 35 110 ms | | | | |
| opening delay | 00 55 | | | | |
| • at AC | 30 55 ms | | | | |
| • at DC | 30 55 ms 10 20 ms | | | | |
| arcing time | Standard A1 - A2 | | | | |
| control version of the switch operating mechanism | | | | | |
| control version of the switch operating mechanism | Standard AT - Az | | | | |
| Auxiliary circuit | | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts | 1 | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact | | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts | 1 | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts | 1 | | | | |
| 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 | 1 1 10 A | | | | |
| 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 | 1 1 10 A 10 A | | | | |
| 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 | 1 1 10 A 10 A 3 A | | | | |
| 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 | 1 1 10 A 10 A 3 A 2 A | | | | |
| 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 | 1 1 10 A 10 A 3 A | | | | |
| 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 | 1 1 10 A 10 A 3 A 2 A 1 A | | | | |
| 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 24 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A | | | | |
| 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 24 V rated value • at 48 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A | | | | |
| 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A | | | | |
| 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A | | | | |
| 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 110 V rated value • at 125 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A | | | | |
| 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 40 V rated value • at 40 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value | 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A | | | | |
| 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 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 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 | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A | | | | |
| 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 40 V rated value • at 40 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value | 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A | | | | |
| 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 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 | | | | |
| 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 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 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 | | | | |
| 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 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 40 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A | | | | |
| 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 48 V rated value • at 48 V rated value • at 40 V rated value • at 110 V rated value • at 125 V rated value • at 200 V rated value • at 600 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10 | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 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 • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 210 V rated value | 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 | | | | |
| 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 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 125 V rated value • at 48 V rated value • at 20 V rated value • at 600 V rated value • at 48 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 1 A 10 | | | | |
| 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 48 V rated value • at 24 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 270 V rated value • at 29 V rated value • at 20 V rated value • at 220 V rated value | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 | | | | |
| 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 24 V rated value • at 48 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 600 V ra | 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | | |

| full-load current (FLA) for 3-phase AC motor | | | |
|--|---|--|--|
| • at 480 V rated value | 40 A | | |
| • at 600 V rated value | 41 A | | |
| yielded mechanical performance [hp] | | | |
| for single-phase AC motor | | | |
| — at 110/120 V rated value | 3 hp | | |
| — at 230 V rated value | 7.5 hp | | |
| for 3-phase AC motor | | | |
| — at 200/208 V rated value | 10 hp | | |
| — at 220/230 V rated value | 15 hp | | |
| — at 460/480 V rated value | 30 hp | | |
| — at 575/600 V rated value | 40 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 | | |
| with two of opping and 0 required | V, 80 kA) | | |
| — with type of assignment 2 required for short-circuit protection of the auxiliary switch | gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA) | | |
| for short-circuit protection of the auxiliary switch required | 90. 10 A (000 V, 1 KA) | | |
| Installation/ mounting/ dimensions | | | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted | | |
| | forward and backward by +/- 22.5° on vertical mounting surface | | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | |
| side-by-side mounting | Yes | | |
| height | 114 mm | | |
| width | 55 mm | | |
| depth | 130 mm | | |
| required spacing | | | |
| with side-by-side mounting | | | |
| — forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | 0 mm | | |
| for grounded parts | | | |
| — forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — at the side | 6 mm | | |
| — downwards | 10 mm | | |
| for live parts | 10 | | |
| — forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | 6 mm | | |
| Connections/ Terminals | | | |
| type of electrical connection • for main current circuit | screw-type terminals | | |
| for auxiliary and control circuit | screw-type terminals | | |
| at contactor for auxiliary contacts | Screw-type terminals | | |
| of magnet coil | Screw-type terminals | | |
| type of connectable conductor cross-sections | | | |
| for main contacts | | | |
| — solid or stranded | 2x (1 35 mm²), 1x (1 50 mm²) | | |
| finely stranded with core end processing | 2x (1 25 mm ²), 1x (1 35 mm ²) | | |
| at AWG cables for main contacts | 2x (1 2) finit), 1x (1 3) finit) 2x (18 2), 1x (18 1) | | |
| connectable conductor cross-section for main contacts | | | |
| finely stranded with core end processing | 1 35 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 mm ² | | |

| type of connectable conductor cross-sec for auxiliary contacts solid or stranded finely stranded with core end pro at AWG cables for auxiliary contacts AWG number as coded connectable contacts | ocessing | 2x (0.5 1.5 mm²), 2x (0.75 2x (0.5 1.5 mm²), 2x (0.75 2x (20 16), 2x (18 14) | | | | |
|---|--|--|--|---|--|--|
| section | | | | | | |
| • for main contacts | | 18 1 | | | | |
| 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 | | | | |
| B10 value with high demand rate according | to SN 31920 | 1 000 000 | | | | |
| proportion of dangerous failures | 10 011 01020 | 1000000 | | | | |
| with low demand rate according to SN | 31920 | 40 % | | | | |
| with high demand rate according to S | | 73 % | | | | |
| failure rate [FIT] with low demand rate acco 31920 | | 100 FIT | | | | |
| T1 value for proof test interval or service life IEC 61508 | e according to | 20 a | | | | |
| protection class IP on the front accordin 60529 | g to IEC | IP20 | | | | |
| | uch protection on the front according to IEC 60529 fin | | finger-safe, for vertical contact from the front | | | |
| safety-related switching OFF | | Yes | | | | |
| Certificates/ approvals | | | | | | |
| General Product Approval | | | | | | |
| | Confirmatio | | <u>Miscellaneous</u> | KC | | |
| General Product EMC Approval | Functional Safety/Safety Machinery | of Declaration of Conf | ormity | Test Certificates | | |
| | <u>Type Examina</u> Certificate | | CE EG-Konf. | <u>Special Test Certific-</u> <u>ate</u> | | |
| Test Certificates Marine / Shipping | | | | | | |
| Type Test Certific- ates/Test Report | BUREAU | | Lloyd's Register us | PRS | | |
| Marine / Shipping | other | | Railway | Dangerous Good | | |
| | <u>Confirmatic</u> | on <u>Confirmation</u> | Vibration and Shock | <u>Transport Informa-</u> tion | | |
| Further information | | | | | | |

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1NB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB30

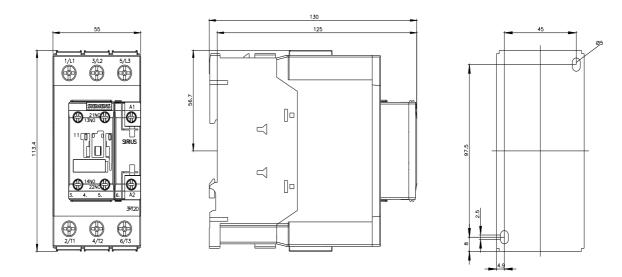
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

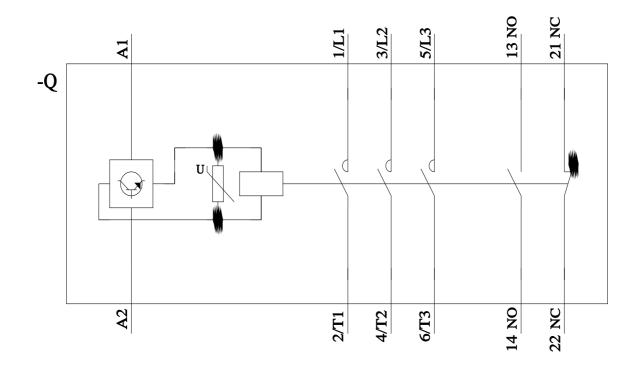
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1NB30&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1NB30&objecttype=14&gridview=view1





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