SIEMENS

Data sheet

3RT2037-3KB40



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, suitable for PLC outputs

| product brand name | SIRIUS | | |
|---|--|--|--|
| product brand name product designation | Coupling contactor | | |
| product designation | 3RT2 | | |
| General technical data | JITZ | | |
| | <u></u> | | |
| size of contactor | S2 | | |
| product extension | NI- | | |
| 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 | | |
| at AC in hot operating state per pole | 3.8 W | | |
| without load current share typical | 1 W | | |
| type of calculation of power loss depending on pole | quadratic | | |
| 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 protective separation between coil and main contacts according to EN 60947-1 | 400 V | | |
| shock resistance at rectangular impulse | | | |
| • at DC | 7.7g / 5 ms, 4.5g / 10 ms | | |
| shock resistance with sine pulse | | | |
| ● 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 | | |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 | | |
| Weight | 1.133 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 maximum | 95 % |
|---|--------------------|
| Environmental footprint | |
| Environmental Product Declaration(EPD) | Yes |
| global warming potential [CO2 eq] total | 107 kg |
| global warming potential [CO2 eq] during manufacturing | 5.88 kg |
| global warming potential [CO2 eq] during operation | 102 kg |
| global warming potential [CO2 eq] after end of life | -0.988 kg |
| Main circuit | -0.000 kg |
| | 2 |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | 200.1/ |
| • 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 | 80 A |
| • at AC-1 | |
| | 90 A |
| — up to 690 V at ambient temperature 40 °C rated value | 80 A |
| — up to 690 V at ambient temperature 60 °C rated | 70 A |
| value | |
| • at AC-3 | |
| — at 400 V rated value | 65 A |
| — at 500 V rated value | 65 A |
| — at 690 V rated value | 47 A |
| • at AC-3e | |
| — at 400 V rated value | 65 A |
| — at 500 V rated value | 65 A |
| — at 690 V rated value | 47 A |
| at AC-4 at 400 V rated value | 55 A |
| • at AC-5a up to 690 V rated value | 70.4 A |
| • at AC-5b up to 400 V rated value | 53.9 A |
| • at AC-6a | 00.07 |
| — up to 230 V for current peak value n=20 rated value | 56.9 A |
| — up to 200 V for current peak value n=20 rated value | 56.9 A |
| — up to 500 V for current peak value n=20 rated value | 56.9 A |
| | |
| — up to 690 V for current peak value n=20 rated value | 47 A |
| • at AC-6a | 20 A |
| — up to 230 V for current peak value n=30 rated value | 38 A |
| — up to 400 V for current peak value n=30 rated value | 38 A |
| — up to 500 V for current peak value n=30 rated value | 38 A |
| — up to 690 V for current peak value n=30 rated value | 38 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 25 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 28 A |
| at 690 V rated value | 22 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 23 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.4 A 0.25 A |
| | 0.20 A |
| with 2 current paths in series at DC-1 | 55.4 |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 45 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 | 55 A | | | |
| — at 60 V rated value | 55 A | | | |
| — at 110 V rated value | 55 A | | | |
| — at 220 V rated value | 45 A | | | |
| — 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 60 V rated value | 6 A | | | |
| — at 220 V rated value | 1A | | | |
| — 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 | 0.0074 | | | |
| — at 24 V rated value | 55 A | | | |
| — at 60 V rated value | 45 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 60 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 | | | | |
| at AC-2 at 400 V rated value | 30 kW | | | |
| • at AC-3 | | | | |
| — at 230 V rated value | 18.5 kW | | | |
| — at 400 V rated value | 30 kW | | | |
| — at 500 V rated value | 37 kW | | | |
| — at 690 V rated value | 37 kW | | | |
| • at AC-3e | | | | |
| — at 230 V rated value | 18.5 kW | | | |
| — at 400 V rated value | 30 kW | | | |
| — at 500 V rated value | 37 kW | | | |
| — at 690 V rated value | 37 kW | | | |
| operating power for approx. 200000 operating cycles at AC- 4 | | | | |
| • at 400 V rated value | 14.7 kW | | | |
| • at 690 V rated value | 20 kW | | | |
| operating apparent power at AC-6a | | | | |
| • up to 230 V for current peak value n=20 rated value | 22.6 kVA | | | |
| up to 400 V for current peak value n=20 rated value | 39.4 kVA | | | |
| up to 500 V for current peak value n=20 rated value | 49.2 kVA | | | |
| up to 690 V for current peak value n=20 rated value | 56.1 kVA | | | |
| operating apparent power at AC-6a | | | | |
| up to 230 V for current peak value n=30 rated value | 15.1 kVA | | | |
| up to 400 V for current peak value n=30 rated value | 26.2 kVA | | | |
| up to 500 V for current peak value n=30 rated value | 32.8 kVA | | | |
| up to 690 V for current peak value n=30 rated value | 45.3 kVA | | | |
| short-time withstand current in cold operating state up to | | | | |
| 40 °C | | | | |
| limited to 1 s switching at zero current maximum | 1 055 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 5 s switching at zero current maximum limited to 10 s switching at zero surrent maximum | 730 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum | 520 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| limited to 30 s switching at zero current maximum | 336 A; Use minimum cross-section acc. to AC-1 rated value | | | |

| limited to 60 s switching at zero current maximum | 272 A; Use minimum cross-section acc. to AC-1 rated value | | | |
|--|--|--|--|--|
| no-load switching frequency | | | | |
| • at DC | 1 500 1/h | | | |
| operating frequency | | | | |
| • at AC-1 maximum | 800 1/h | | | |
| • at AC-2 maximum | 400 1/h | | | |
| ● at AC-3 maximum | 700 1/h | | | |
| • at AC-3e maximum | 700 1/h | | | |
| ● at AC-4 maximum | 200 1/h | | | |
| Control circuit/ Control | | | | |
| type of voltage of the control supply voltage | DC | | | |
| control supply voltage at DC rated value | 24 V | | | |
| operating range factor control supply voltage rated value of magnet coil at DC | | | | |
| initial value | 0.8 | | | |
| • full-scale value | 1.2 | | | |
| design of the surge suppressor | with varistor | | | |
| inrush current peak | 2.6 A | | | |
| duration of inrush current peak | 50 µs | | | |
| locked-rotor current mean value | 0.9 A | | | |
| locked-rotor current peak | 2.1 A | | | |
| duration of locked-rotor current | 230 ms | | | |
| holding current mean value | 40 mA | | | |
| closing power of magnet coil at DC | 21.5 W | | | |
| holding power of magnet coil at DC | 1 W | | | |
| | | | | |
| closing delay | 25 00 mg | | | |
| • at DC | 35 80 ms | | | |
| opening delay | 20. 55 | | | |
| • at DC | 30 55 ms | | | |
| arcing time | 10 20 ms | | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | | |
| · • | | | | |
| Auxiliary circuit | | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact | 1 | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact | 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 | 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 | 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 | 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 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value | 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 | 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 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value | 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 | 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 | 1 1 10 A 10 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 690 V rated value • at 48 V rated value • at 48 V rated value • at 400 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 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value | 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 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 400 V rated value at 48 V rated value at 410 V rated value at 410 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 24 V rated value • at 48 V rated value • at 400 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 | 1 1 10 A 10 A 2 A 1 A 10 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 500 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 • at 24 V rated value • at 24 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value | 1 1 10 A 10 A 2 A 1 A 10 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 690 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 20 V rated value • at 20 V rated value • at 60 V rated value • at 110 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 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 0.15 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 | 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 | 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 60 V rated value • at 400 V rated value • at 60 V rated value • at 400 V rated value • at 60 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 400 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 690 V rated value • at 60 V rated value • at 410 V rated value • at 60 V rated value • at 24 V rated value • at 60 V rated value • at 20 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 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 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 690 V rated value • at 24 V rated value • at 60 V rated value • at 20 V rated value • at 20 V rated value • at 24 V rated value • at 20 V rated value • at 20 V rated value • at 20 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 24 V rated value • at 48 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 125 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 | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value | 1 1 10 A 3A 2A 1A 10 A 6A 6A 6A 3A 2A 1A 10 A 6A 6A 6A 1A 10 A 2A 1A 0.1 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 40 V rated value • at 690 V rated value • at 40 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 21 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 40 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value <t< th=""><th>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</th></t<> | 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 | | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value | 1 1 10 A 3A 2A 1A 10 A 6A 6A 6A 3A 2A 1A 10 A 6A 6A 6A 1A 10 A 2A 1A 0.1 A | | | |

| • at 480 V rated value | 65 A | | | |
|--|--|--|--|--|
| at 600 V rated value | 52 A | | | |
| yielded mechanical performance [hp] | | | | |
| for single-phase AC motor | | | | |
| — at 110/120 V rated value | 5 hp | | | |
| — at 230 V rated value | 10 hp | | | |
| for 3-phase AC motor | | | | |
| — at 200/208 V rated value | 20 hp | | | |
| — at 220/230 V rated value | 20 hp | | | |
| — at 460/480 V rated value | 50 hp | | | |
| — at 575/600 V rated value | 50 hp | | | |
| contact rating of auxiliary contacts according to UL | A600 / P600 | | | |
| Short-circuit protection | | | | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA | | | |
| 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: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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 side-by-side mounting | Yes | | | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | | |
| 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 | | | | |
| — 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 | spring-loaded terminals | | | |
| at contactor for auxiliary contacts | Spring-type terminals | | | |
| of magnet coil | Spring-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 mm²), 1x (1 35 mm²) | | | |
| for AWG cables for main contacts | 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 | | | |
| a mory stranged with core end processing | | | | |

| finely stranded y | vithout core end processin | a | 0.5 2.5 mm ² | | | |
|--|----------------------------|--|--|-------------------|---------------------|--|
| • | conductor cross-sections | - | | | | |
| for auxiliary cont | | | | | | |
| — solid or stra | | | 2x (0.5 2.5 mm²) | | | |
| — finely stran | ded with core end process | ing | 2x (0.5 1.5 mm²) | | | |
| | ded without core end proc | ů. | 2x (0.5 2.5 mm ²) | | | |
| - | for auxiliary contacts | U | 2x (20 14) | | | |
| | ed connectable conducto | or cross | | | | |
| section | | | | | | |
| for main contact | - | | 18 1 | | | |
| for auxiliary cont | acts | | 20 14 | | | |
| Safety related data | | | | | | |
| product function | | | | | | |
| mirror contact ad | ccording to IEC 60947-4-1 | | Yes | | | |
| positively driven | operation according to IEC | C 60947-5-1 | No | | | |
| suitable for safe | y function | | Yes | | | |
| suitability for use safety | /-related switching OFF | | Yes | | | |
| service life maximum | | | 20 a | | | |
| test wear-related serv | rice life necessary | | Yes | | | |
| proportion of danger | ous failures | | | | | |
| with low demand | I rate according to SN 319 | 20 | 40 % | | | |
| with high deman | d rate according to SN 31 | 920 | 73 % | | | |
| B10 value with high d | emand rate according to | SN 31920 | 1 000 000 | | | |
| failure rate [FIT] with 31920 | low demand rate accord | ing to SN | 100 FIT | | | |
| ISO 13849 | | | | | | |
| device type according | g to ISO 13849-1 | | 3 | | | |
| overdimensioning ac | cording to ISO 13849-2 n | ecessary | Yes | | | |
| IEC 61508 | | | | | | |
| safety device type ac | cording to IEC 61508-2 | | Туре А | | | |
| Electrical Safety | | | | | | |
| protection class IP or | the front according to I | EC 60529 | IP20 | | | |
| touch protection on t | he front according to IEC | 60529 | finger-safe, for vertical contact from the front | | | |
| Approvals Certificates | | | | | | |
| General Product App | roval | | | | | |
| | | | | | | |
| | CE EG-Konf. | UK CA | <u>Confirmation</u> | U | <u>KC</u> | |
| General Product Ap- | EMV | Test Certificate | e | Marine / Shipping | | |
| proval | | Test Certificate | 3 | Marine / Shipping | | |
| EHC | RCM | <u>Type Test Certi</u> ates/Test Repo | | ABS | BUREAU VERITAS | |
| Marine / Shipping | | | | | other | |
| | Lloyd's Register uis | PRS | RINA | RMRS | <u>Confirmation</u> | |
| | | | | | | |
| Railway | Environment | | | | | |
| | | | | | | |



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=3RT2037-3KB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3KB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3KB40

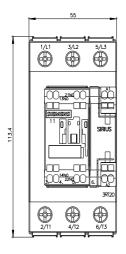
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

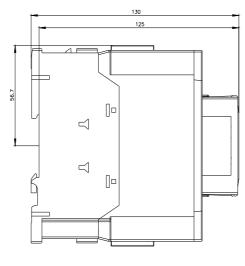
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3KB40&lang=en

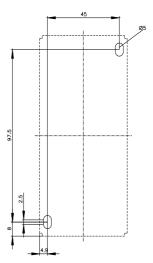
Characteristic: Tripping characteristics, I²t, Let-through current

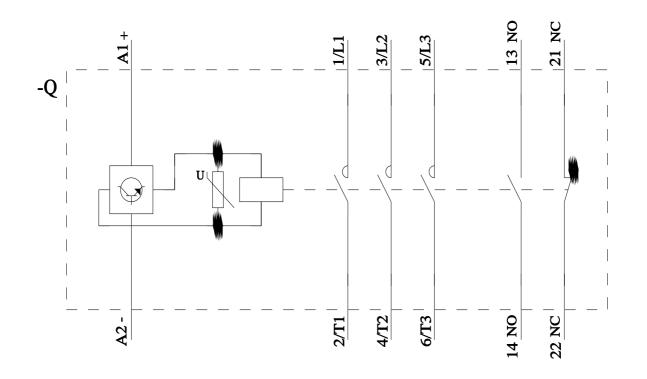
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3KB40/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3KB40&objecttype=14&gridview=view1









last modified:

1/24/2025 🖸