SIEMENS

Data sheet

3RT2025-2AN24



power contactor, AC-3 17 A, 7.5 kW / 400 V 2 NO + 2 NC, 220 V AC, 50 / 60 Hz, 3-pole, Size S0, Spring-type terminal Removable auxiliary switch

| 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 | No | | | |
| power loss [W] for rated value of the current | | | | |
| at AC in hot operating state | 1.8 W | | | |
| at AC in hot operating state per pole | 0.6 W | | | |
| without load current share typical | 7.9 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 | 7,5g / 5 ms, 4,7g / 10 ms | | | |
| shock resistance with sine pulse | | | | |
| • at AC | 11,8g / 5 ms, 7,4g / 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 according to IEC 81346-2 | Q | | | |
| Substance Prohibitance (Date) | 10/01/2009 | | | |
| 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 | 40 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 40 A |
| — up to 690 V at ambient temperature 60 °C rated value | 35 A |
| • at AC-3 | |
| — at 400 V rated value | 17 A |
| — at 500 V rated value | 17 A |
| — at 690 V rated value | 13 A |
| • at AC-3e | |
| — at 400 V rated value | 17 A |
| — at 500 V rated value | 17 A |
| — at 690 V rated value | 13 A |
| • at AC-4 at 400 V rated value | 15.5 A |
| • at AC-5a up to 690 V rated value | 35.2 A |
| • at AC-5b up to 400 V rated value | 14.1 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 11.4 A |
| up to 400 V for current peak value n=20 rated value | 11.4 A |
| up to 500 V for current peak value n=20 rated value | 11.4 A |
| — up to 690 V for current peak value n=20 rated value | 11.3 A |
| at AC-6a up to 230 V for current peak value n=30 rated value | 7.6 A |
| value — up to 400 V for current peak value n=30 rated value | 7.6 A |
| — up to 500 V for current peak value n=30 rated value | 7.6 A |
| up to 690 V for current peak value n=30 rated value | 7.6 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 10 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 7.7 A |
| • at 690 V rated value | 7.7 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 | 1A |
| — at 600 V rated value | 0.8 A |
| • with 3 current paths in series at DC-1 | |
| • with 5 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 | | | | |
| 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-3 | | | | | |
| — at 230 V rated value | 4 kW | | | | |
| — at 400 V rated value | 7.5 kW | | | | |
| — at 500 V rated value | 7.5 kW | | | | |
| — at 690 V rated value | 11 kW | | | | |
| • at AC-3e | | | | | |
| — at 230 V rated value | 4 kW | | | | |
| — at 400 V rated value | 4.5 kW | | | | |
| — at 500 V rated value | 7.5 kW | | | | |
| — at 690 V rated value | 11 kW | | | | |
| operating power for approx. 200000 operating cycles at AC-4 | | | | | |
| • at 400 V rated value | 3.5 kW | | | | |
| at 690 V rated value | 6 kW | | | | |
| operating apparent power at AC-6a | | | | | |
| • up to 230 V for current peak value n=20 rated value | 4.5 kVA | | | | |
| • up to 400 V for current peak value n=20 rated value | 7.8 kVA | | | | |
| • up to 500 V for current peak value n=20 rated value | 9.9 kVA | | | | |
| • up to 690 V for current peak value n=20 rated value | 13.6 kVA | | | | |
| operating apparent power at AC-6a | | | | | |
| • up to 230 V for current peak value n=30 rated value | 3 kVA | | | | |
| • up to 400 V for current peak value n=30 rated value | 5.2 kVA | | | | |
| • up to 500 V for current peak value n=30 rated value | 6.6 kVA | | | | |
| • up to 690 V for current peak value n=30 rated value | 9.1 kVA | | | | |
| short-time withstand current in cold operating state up to 40 °C | | | | | |
| limited to 1 s switching at zero current maximum | 225 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 5 s switching at zero current maximum | 225 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 10 s switching at zero current maximum | 180 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 30 s switching at zero current maximum | 115 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 60 s switching at zero current maximum | 96 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| no-load switching frequency | | | | | |
| • at AC | 5 000 1/h | | | | |
| operating frequency | | | | | |
| • at AC-1 maximum | 1 000 1/h | | | | |
| • at AC-2 maximum | 1 000 1/h | | | | |
| • at AC-3 maximum | 1 000 1/h | | | | |
| | | | | | |

| ● at AC-3e maximum | 1 000 1/h | | | |
|---|--|--|--|--|
| • at AC-3e maximum • at AC-4 maximum | 300 1/h | | | |
| • at AC-4 maximum Control circuit/ Control | | | | |
| | 10 | | | |
| type of voltage of the control supply voltage | AC | | | |
| control supply voltage at AC | 222.14 | | | |
| • at 50 Hz rated value | 220 V | | | |
| at 60 Hz rated value | 220 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 | 68 VA | | | |
| • at 60 Hz | 67 VA | | | |
| inductive power factor with closing power of the coil | | | | |
| • at 50 Hz | 0.72 | | | |
| • at 60 Hz | 0.74 | | | |
| apparent holding power of magnet coil at AC | | | | |
| • at 50 Hz | 7.9 VA | | | |
| • at 60 Hz | 6.5 VA | | | |
| inductive power factor with the holding power of the | | | | |
| coil | | | | |
| • at 50 Hz | 0.25 | | | |
| • at 60 Hz | 0.28 | | | |
| closing delay | | | | |
| • at AC | 8 40 ms | | | |
| opening delay | | | | |
| • at AC | 4 16 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 | 2 | | | |
| instantaneous contact | | | | |
| instantaneous contact number of NO contacts for auxiliary contacts | 2 2 | | | |
| instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact | 2 | | | |
| instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum | | | | |
| instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 | 2 10 A | | | |
| 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 | 2 10 A 6 A | | | |
| 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 | 2 10 A 6 A 3 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A | | | |
| 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 | 2 10 A 6 A 3 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A 10 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A | | | |
| 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 | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A | | | |
| 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 60 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A | | | |
| 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 40 V rated value • at 40 V rated value • at 40 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A | | | |
| 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 400 V rated value • at 20 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 1 A 1 A 1 A | | | |
| 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 • at 600 V rated value • at 600 V rated value • at 220 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A | | | |
| 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 • at 220 V rated value • at 24 V rated value • at 48 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A | | | |
| 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A | | | |
| 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 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 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 20 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A | | | |
| 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 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 125 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.9 A | | | |
| 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 220 V rated value • at 600 V rated value • at 24 V rated value • at 125 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 20 V rated value • at 20 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A | | | |
| 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 220 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A | | | |
| 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 25 V rated value • at 20 V rated value • at 48 V rated value • at 48 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A | | | |
| 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 100 V rated value • at 200 V rated value | 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A | | | |

| at 600 V rated value | 17 A | | | | |
|--|--|--|--|--|--|
| yielded mechanical performance [hp] | | | | | |
| for single-phase AC motor | | | | | |
| — at 110/120 V rated value | 1 hp | | | | |
| — at 230 V rated value | 3 hp | | | | |
| • for 3-phase AC motor | | | | | |
| — at 200/208 V rated value | 3 hp | | | | |
| — at 220/230 V rated value | 5 hp | | | | |
| - at 460/480 V rated value | 10 hp | | | | |
| — at 575/600 V rated value | 15 hp | | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | | |
| Short-circuit protection | | | | | |
| design of the fuse link | | | | | |
| for short-circuit protection of the main circuit | | | | | |
| — with type of coordination 1 required | gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) | | | | |
| — with type of assignment 2 required | gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) | | | | |
| for short-circuit protection of the auxiliary switch | gG: 10 A (500 V, 1 kA) | | | | |
| required | | | | | |
| 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 | | | | |
| fastoning mothod | · · · | | | | |
| 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 | 144 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 | 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 | | | | |
| type of connectable conductor cross-sections | | | | | |
| for main contacts | | | | | |
| — solid | 2x (1 10 mm ²) | | | | |
| — solid or stranded | 2x (1 10 mm ²) | | | | |
| finely stranded with core end processing | 2x (1 6 mm ²) | | | | |
| finely stranded without core end processing | 2x (1 6 mm²) | | | | |
| at AWG cables for main contacts | 2x (18 8) | | | | |
| connectable conductor cross-section for main contacts | | | | | |
| ● solid | 1 10 mm² | | | | |
| stranded | 1 10 mm² | | | | |
| finely stranded with core end processing | 1 6 mm² | | | | |

| finely stranded with | | | 1 6 mm² | | | | |
|---|---|--------------------|-------------------------------|----------------------------|-------------------------------|--|--|
| connectable conductor o contacts | cross-section for | auxiliary | | | | | |
| solid or stranded | | | 05 25 | mm² | | | |
| | | | | 0.5 2.5 mm² 0.5 1.5 mm² | | | |
| | finely stranded with core end processing finely stranded without core end processing | | | 0.5 1.5 mm² 0.5 2.5 mm² | | | |
| | type of connectable conductor cross-sections | | 0.0 2.0 [[][[]] | | | | |
| for auxiliary contacts | | | | | | | |
| — solid or strande | - | | 2x (0.5 2.5 mm²) | | | | |
| | — solid of stranded — finely stranded with core end processing | | 2x (0.5 1.5 mm ²) | | | | |
| | — finely stranded with core end processing — finely stranded without core end processing | | 2x (0.5 2.5 mm ²) | | | | |
| | at AWG cables for auxiliary contacts | | 2x (20 14) | | | | |
| AWG number as coded of section | | uctor cross | | , | | | |
| for main contacts | | | 18 8 | | | | |
| for auxiliary contacts | 3 | | 20 14 | | | | |
| Safety related data | | | | | | | |
| product function | | | | | | | |
| mirror contact accord | ding to IEC 60947- | 4-1 | Yes | | | | |
| positively driven ope 5-1 | eration according to | IEC 60947- | No | | | | |
| B10 value with high demar | nd rate according t | o SN 31920 | 450 000 | | | | |
| proportion of dangerous | failures | | | | | | |
| with low demand rate | e according to SN | 31920 | 40 % | | | | |
| with high demand rate | te according to SN | 31920 | 73 % | | | | |
| failure rate [FIT] with low d 31920 | | | 100 FIT | | | | |
| IEC 61508 | T1 value for proof test interval or service life according to IEC 61508 | | 20 у | | | | |
| 60529 | protection class IP on the front according to IEC 60529 | | IP20 | | | | |
| touch protection on the f | front according to | IEC 60529 | finger-safe | , for vertical c | ontact from the front | | |
| suitability for use | | | | | | | |
| safety-related switch | | | Yes | | | | |
| Certificates/ approvals | | _ | | _ | | | |
| General Product Approv | val | | | | | | |
| SA CSA | | <u>Confirmatic</u> | <u>on</u> | Ű | KC | EHC | |
| EMC Sa | nctional ifety/Safety of achinery | Declaration of | of Conformit | У | Test Certificates | | |
| | r <u>pe Examination</u> Certificate | CE EG-Konf. | | | Special Test Certific- ate | <u>Type Test Certific-</u> ates/Test Report | |
| Marine / Shipping | | | | | | | |
| ABS | BUREAU VERITAS | | | Lloyd's Register uts | PRS | RINA | |
| Marine / Shipping ot | her | | | | | | |

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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=3RT2025-2AN24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-2AN24

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2AN24

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

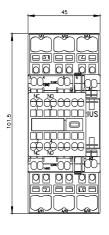
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2AN24&lang=en

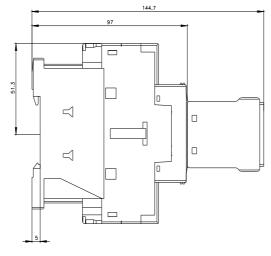
Characteristic: Tripping characteristics, I²t, Let-through current

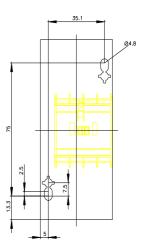
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2AN24/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-2AN24&objecttype=14&gridview=view1







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