SIEMENS

Data sheet

3RT2027-4AR60



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, ring cable lug connection, size: S0

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | SO |
| 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 | 6.3 W |
| at AC in hot operating state per pole | 2.3 W |
| without load current share typical | 10.5 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 protective separation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,3g / 5 ms, 5,3g / 10 ms |
| shock resistance with sine pulse | |
| ● at AC | 13,5g / 5 ms, 8,3g / 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) | 10/01/2009 |
| 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 | 50 A |
| value | |
| • 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 | 42 A |
| value | |
| ● at AC-3 | |
| — at 400 V rated value | 32 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value | 21 A |
| • at AC-3e | |
| — at 400 V rated value | 32 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 at AC-6a | 26.5 A |
| | 30.8 A |
| — up to 230 V for current peak value n=20 rated value | |
| — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value | 30.8 A 27 A |
| — up to 500 V for current peak value n=20 rated value | 21 A 21 A |
| • at AC-6a | 21A |
| up to 230 V for current peak value n=30 rated value | 20.5 A |
| — up to 200 V for current peak value n=30 rated value | 20.5 A |
| — up to 500 V for current peak value n=30 rated value | 18 A |
| — up to 690 V for current peak value n=30 rated value | 18 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 10 mm ² |
| value | |
| 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 60 V rated value | 20 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 60 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 60 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 60 V rated value | 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 60 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 60 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 | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| at 400 V rated value | 6 kW |
| a at 600 V rated value | 10.3 kW |
| at 690 V rated value | 10.0 101 |
| operating apparent power at AC-6a | |
| | 12.2 kVA |
| operating apparent power at AC-6a | |
| operating apparent power at AC-6aup to 230 V for current peak value n=20 rated value | 12.2 kVA |
| operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value | 12.2 kVA 21.3 kVA |
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| operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value imited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maxim | 12.2 kVA 21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA 15.5 kVA 21.5 kVA 21.5 kVA 21.5 kVA 15.5 kVA |
| operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum | 12.2 kVA 21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA 15.5 kVA 21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 750 1/h |
| operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value imited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maxim | 12.2 kVA 21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA 15.5 kVA 21.5 kVA 21.5 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h 750 1/h |

| control supply voltage at AC | |
|---|---|
| • at 50 Hz rated value | 400 V |
| at 60 Hz rated value | 440 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 | 81 VA |
| • at 60 Hz | 79 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 | 10.5 VA |
| • at 60 Hz | 8.5 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 instantaneous contact | 1 |
| number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| operational current at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 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 | 27 A |
| at 600 V rated value | 27 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 2 hp |
| — at 230 V rated value | 5 hp |
| | |

| | for 3-phase AC motor | | | | |
|---|---|---|--|--|--|
| | • | 10 hn | | | |
| | | • | | | |
| | | | | | |
| contact rating of auxiliary contacts according to UL A800 / P800 Stort-circuit protection Stort-circuit protection of the main circuit | | | | | |
| Short-circuit protection exit by event of the fase link er short-circuit protection of the main circuit | | | | | |
| design of the fuse link or short-circuit protection of the main circuit gG: 125A (690V.100kA), aM: 50A (690V.100kA), BS88: 125A (415V.80kA) gG: 50A (690V.100kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.100kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.10 kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.10 kA), BS88: 50A (415V.80kA) gG: 10 A (500V.10 kA), aM: 25A (690V.10 kA), BS88: 50A (690V.10 kA), aM: 25A (690V.10 | | A0007 P000 | | | |
| for abort-circuit protection of the main circuit | | | | | |
| | - | | | | |
| - with type of assignment 2 required • for short-circuit protection of the auxiliary witch required iteralisation' mounting of informations iteralisation' mounting of informations iteralis | - | aC: 1254 (600)/ 100/4) aM: 504 (600)/ 100/4) DS89: 1254 (415)/ 90/4) | | | |
| - for short-droub protection of the auxiliary switch required gG: 10 A (500 V, 1 KA) instaliation mounting dimensions | | | | | |
| Installation/mounting/dimensions +//180° rotation possible on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a backward by +// 22.5° on vertical mounting surface; can be titled forward a form display. height escew and snap-on mounting onto 35 mm DIN rall according to DIN EN 6071 vieth 45 mm dapth 45 mm overds 10 mm - upwards 10 mm - drowards 10 mm <t< td=""><td></td><td></td></t<> | | | | | |
| mounting position +/180° rotation possitie on vertical mounting surfaces can be tilted forward a backward by +/22.5° on vertical mounting surfaces. fastening method screw and snap-on mounting on to 35 mm DIN rail according to DIN EN 6071 • side-by-side mounting Yes height 45 mm depth 97 mm required spacing • • with side-by-side mounting 10 mm - drowards 10 mm - forwards 10 mm - forwards 10 mm <td></td> <td>gG: 10 A (500 V, 1 KA)</td> | | gG: 10 A (500 V, 1 KA) | | | |
| backward by 4/-22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 6071 width 45 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - for younded parts 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - of rowards 10 mm - of orwards </td <td></td> <td>1/ 100° retation people on vertical mounting outface; can be tilted forward and</td> | | 1/ 100° retation people on vertical mounting outface; can be tilted forward and | | | |
| • side-by-side mounting Yes height 85 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting - - forwards 10 mm - downwards 10 mm - downwards 00 mm - downwards 00 mm - downwards 00 mm - forwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 | mounting position | | | | |
| height 65 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forgrounded parts - - forwards 10 mm - upwards 10 mm - downwards 10 mm - for main current circuit Ring cable lug connection ing cable | fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | | |
| height 85 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downards 10 mm - downwards 10 mm | side-by-side mounting | Yes | | | |
| with 45 mm depth 97 mm required spacing 97 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - for grounded parts 0 mm - at the side 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm | | | | | |
| depth 97 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals Fig cable lug connection is of magnet coil Ring cable lug connection is of magnet coil Ring cable lug connection is of magnet coil Ring cable lug connection Safety related d | | | | | |
| required spacing • with side-by-side mounting - forwards 10 mm - gowards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 | | | | | |
| • with side-by-side mounting0- forwards10 mm- upwards10 mm- upwards0 mm- downwards0 mm- at the side0 mm• for grounded parts0- forwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- do | • | | | | |
| - forwards10 mm- upwards00 mm- downwards00 mm- at the side0 mm- for grounded parts0 mm- forwards10 mm- upwards10 mm- upwards00 mm- downwards10 mm- downwardsRing cable lug connection- at the side6 mm- for main current circuitring terminal lug connection• of auxiliary and control circuitring terminal lug connection• of auxiliary contactsRing cable lug connection <td></td> <td></td> | | | | | |
| upwards10 mm downwards00 mm at the side00 mm at the side10 mm upwards10 mm upwards10 mm upwards10 mm at the side6 mm downwards10 mm dornals10 mmConnections/ Torninals10 mmcontactor for auxiliary contactsRing cable lug connection- of or auxiliary and control circuitRing cable lug connection- of auxiliary contactsRing cable lug connection- of auxiliary and control circuitRing cable lug connection- of auxiliary contactsRing cable lug connection- of auxiliary contact according to SN 3192040 %- of auxiliary contact filters20 o00- of auxiliary contact filters20 a- faluer rate [FI | | 10 mm | | | |
| downwards10 mm at the side0 mm•- forwards10 mm forwards10 mm upwards0 mm at the side6 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm forwards10 mm forwards10 mm forwards10 mm upwards10 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwards10 mm downwardsRing cable lug connection• for main current circuitring terminal lug connection• of auxiliary and control circuitring terminal lug connection• of auxiliary contactsRing cable lug connection• for late tircuitfild terminal lug connection• of auxiliary contactsRing cable lug connection• for late fild to LEC 60947-4-1Yes <td></td> <td>10 mm</td> | | 10 mm | | | |
| at the side0 mm• for grounded parts0 mm forwards10 mm upwards0 mm at the side6 mm downwards10 mm downwards10 mm• for live parts10 mm forwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards0 mm downwards0 mm downwards10 mm downwards6 mm downwards10 mm downwardsRing cable lug connection downwardsRing cable lug connection for auxiliary contactsRing cable lug connection< | | | | | |
| • for grounded partsI 0 mm- forwards10 mm- upwards00 mm- at the side6 mm- downwards10 mm- downwards10 mm• for live parts forwards10 mm- upwards10 mm- downwards6 mm- downwards6 mm- downwards6 mm- downwards6 mm- at the side6 mmConnections/ TerminalsVpp of electrical connection• for auxiliary and control circuitRing cable lug connection• for auxiliary and control circuitRing cable lug connection• for auxiliary and control circuitRing cable lug connection• of magnet collRing cable lug connection• of magnet collRing cable lug connection• of magnet collRing cable lug connection• miror contact according to EEC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures-• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to EC 60529IP00suitability for use-• safety-related switching OFFYes | | | | | |
| - forwards10 mm- upwards00 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- at the side6 mmConnections/Terminals0 mmtype of electrical connection• for awailiary and control circuitRing cable lug connection• of magnet coilRing cable lug connectionSafety related data | | | | | |
| | | 10 mm | | | |
| - a the side 6 mm - downwards 10 mm • for live parts - - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • of magnet coil Ring cable lug connection • mirror contact according to IEC 60947-4 | | | | | |
| downwards 10 mm • for live parts 0 mm forwards 10 mm upwards 10 mm downwards 10 mm downwards 0 mm downwards 6 mm Connections/Terminals Forminal records type of electrical connection Fing cable lug connection • for main current circuit ring cable lug connection • at contact or for auxiliary contacts Ring cable lug connection • at contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 40 % • with low demand rate according to SN 31920 | | | | | |
| • for live partsI- forwards10 mm- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitRing cable lug connection• for auxiliary and control circuitring terminal lug connection• at contactor for auxiliary contactsRing cable lug connection• of magnet coilRing cable lug connection• of magnet coilRing cable lug connectionSafety related dataVesProduct functionYes• mirror contact according to EC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures40 %• with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to EC 60529100 FITT1 value for proof test interval or service life according to EC 60529IP00suitability for useF00• safety-related switching OFFYes | | | | | |
| forwards10 mmupwards10 mmdownwards10 mmdownwards6 mmConnections/Terminalstype of electrical connectionfor main current circuitRing cable lug connectionfor auxiliary and control circuitring terminal lug connectionfor auxiliary and control circuitRing cable lug connectionfor auxiliary and control circuitRing cable lug connectionfor auxiliary contactsRing cable lug connectionfor auxiliary contactRing cable lug connectionfor auxiliary and rate according to SN 31920450 000with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to IEC 60529P00safety-related switching OFFYes | | | | | |
| - upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitRing cable lug connection• for main current circuitring terminal lug connection• for auxiliary and control circuitRing cable lug connection• at contactor for auxiliary contactsRing cable lug connection• of magnet coilRing cable lug connectionSafety related dataFor contact according to IEC 60947-4-1product functionYes• with high demand rate according to SN 31920450 000proportion of dangerous failuresYes• with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to IEC 60529100 FITT1 value for proof test interval or service life according to IEC 605291P00suitability for useIP00• safety-related switching OFFYes | | 10 mm | | | |
| downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitRing cable lug connection• for auxiliary and control circuitring terminal lug connection• at contactor for auxiliary contactsRing cable lug connection• of magnet collRing cable lug connectionSafety related dataremirror contact according to IEC 60947-4-1product functionYesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures40 %• with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 60529IP00suitability for useiP00• safety-related switching OFFYes | | | | | |
| at the side 6 mm Connections/Terminals type of electrical connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection Safety related data Product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures - • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 60529 IPO0 suitability for use - • safety-related switching OFF Yes | • | | | | |
| Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to IEC 60529 protection class IP on the front according to IEC 60529 iPO0 suitability for use • safety-related switching OFF | | | | | |
| type of electrical connection Fing cable lug connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection Safety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures • • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 60529 IP00 suitability for use • safety-related switching OFF Yes | | | | | |
| • for main current circuitRing cable lug connection• for auxiliary and control circuitring terminal lug connection• at contactor for auxiliary contactsRing cable lug connection• of magnet coilRing cable lug connectionSafety related dataRing cable lug connectionproduct functionYes• mirror contact according to IEC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures40 %• with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 60529IPO0suitability for useFoo• safety-related switching OFFYes | | | | | |
| • for auxiliary and control circuitring terminal lug connection• at contactor for auxiliary contactsRing cable lug connection• of magnet coilRing cable lug connectionSafety related dataForduct function• mirror contact according to IEC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures•• with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 6052920 aprotection class IP on the front according to IEC 60529IP00suitability for use• safety-related switching OFF• safety-related switching OFFYes | | Ring cable lug connection | | | |
| • at contactor for auxiliary contactsRing cable lug connection• of magnet coilRing cable lug connectionSafety related dataproduct functionYes• mirror contact according to IEC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures• with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 6052920 aprotection class IP on the front according to IEC 60529IP00suitability for use • safety-related switching OFFYes | | | | | |
| • of magnet coilRing cable lug connectionSafety related dataproduct function • mirror contact according to IEC 60947-4-1YesB10 value with high demand rate according to SN 31920450 000proportion of dangerous failures • with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 6052920 aprotection class IP on the front according to IEC 60529IP00suitability for use • safety-related switching OFFYes | | | | | |
| Safety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures • • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IP00 suitability for use • safety-related switching OFF • safety-related switching OFF Yes | - | | | | |
| product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61529 20 a protection class IP on the front according to IEC 60529 IP00 suitability for use • safety-related switching OFF • safety-related switching OFF Yes | - | | | | |
| • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures | | | | | |
| B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures | - | Yes | | | |
| proportion of dangerous failures 40 % • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61508 20 a protection class IP on the front according to IEC 60529 IP00 suitability for use • safety-related switching OFF | | | | | |
| with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 IP00 suitability for use • safety-related switching OFF Yes | | | | | |
| with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 IP00 suitability for use safety-related switching OFF Yes | | 40 % | | | |
| failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 20 a 61508 IPO0 suitability for use Ves | - | | | | |
| T1 value for proof test interval or service life according to IEC 20 a 61508 20 a protection class IP on the front according to IEC 60529 IP00 suitability for use vestic bility for use • safety-related switching OFF Yes | | | | | |
| suitability for use • safety-related switching OFF Yes | T1 value for proof test interval or service life according to IEC | | | | |
| • safety-related switching OFF Yes | protection class IP on the front according to IEC 60529 | IP00 | | | |
| safety-related switching OFF Yes | | | | | |
| | - | Yes | | | |
| | | | | | |
| General Product Approval | | | | | |

| SA CSA | <u>Confirmation</u> | CCC | | <u>KC</u> | EAC |
|--|---|---|-------------------------------|--------------------------------------|--|
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of Confor | mity | Test Certificates | |
| RCM | <u>Type Examination Cer-</u> tificate | CE EG-Konf. | UK CA | <u>Special Test Certific-</u> ate | <u>Type Test Certific-</u> ates/Test Report |
| Marine / Shipping | | | | | |
| ABS | BUREAU VERITAS | | Lloyd's Register us | PRS | RINA |
| Marine / Shipping | other | | Railway | Environment | |
| RMRS | <u>Confirmation</u> | | Vibration and Shock | Environmental Con- firmations | |
| Further information | | | | | |
| https://press.siemens.r Siemens is working of Please contact your lo EAC relevant market (Information on the pa https://support.industry | <u>v.siemens.com/cs/ww/en/vie</u> vnloadcenter (Catalogs, E com/ic10 | ent EAC certificates. ent EAC certificates. tatus of validity of the EA EAEU member states Rus ew/109813875 | C certification if you intend | d to import or offer to supp | ly these products to an |

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-4AR60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027

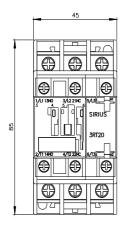
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-4AR60&lang=en

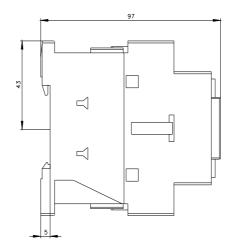
Characteristic: Tripping characteristics, I2t, Let-through current

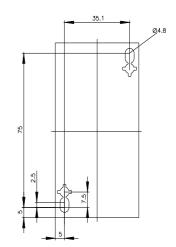
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-4AR60/char

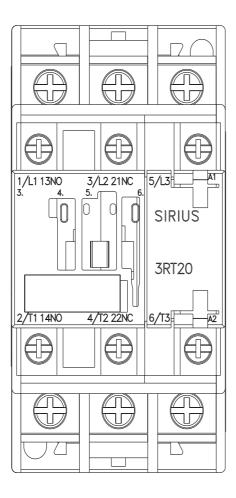
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siem ens.com/bilddb/index.aspx?view= . &mlft 3RT2027-4AR60&objecttype=14&gridview=view1











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2/10/2023 🖸