SIEMENS

Data sheet 3RT1076-2NF36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

| product brand name | SIRIUS |
|--|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT1 |
| General technical data | |
| size of contactor | S12 |
| 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 | 165 W |
| at AC in hot operating state per pole | 55 W |
| without load current share typical | 3.6 W |
| type of calculation of power loss depending on pole | quadratic |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 690 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC | 13,4g / 5 ms, 6,5g / 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) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 |
| Weight | 10.501 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 | 95 % |
| maximum | 55 /6 |
| 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 | 1 000 V |
| at AC-3e rated value maximum | 1 000 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated | 610 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 610 A |
| value | 550 A |
| — up to 690 V at ambient temperature 60 °C rated value | 550 A |
| — up to 1000 V at ambient temperature 40 °C rated | 200 A |
| value | |
| — up to 1000 V at ambient temperature 60 °C rated | 200 A |
| value | |
| at AC-3— at 400 V rated value | 500 A |
| | 500 A |
| — at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A |
| — at 1000 V rated value ● at AC-3e | 180 A |
| | F00 A |
| — at 400 V rated value | 500 A |
| — at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A 180 A |
| — at 1000 V rated value | |
| at AC-5 up to 600 V rated value | 430 A |
| at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value | 536 A |
| at AC-5b up to 400 V rated value | 415 A |
| • at AC-6a | 444 A |
| — up to 230 V for current peak value n=20 rated value | 414 A |
| — up to 400 V for current peak value n=20 rated value | 414 A |
| — up to 500 V for current peak value n=20 rated value | 414 A |
| — up to 690 V for current peak value n=20 rated value | 414 A |
| up to 1000 V for current peak value n=20 rated value | 180 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 276 A |
| — up to 400 V for current peak value n=30 rated value | 276 A |
| — up to 500 V for current peak value n=30 rated value | 276 A |
| — up to 690 V for current peak value n=30 rated value | 276 A |
| — up to 1000 V for current peak value n=30 rated | 180 A |
| value | |
| minimum cross-section in main circuit at maximum AC-1 rated | 370 mm² |
| value operational current for approx. 200000 operating cycles at | |
| AC-4 | |
| • at 400 V rated value | 175 A |
| • at 690 V rated value | 150 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 330 A |
| — at 110 V rated value | 33 A |
| — at 220 V rated value | 3.8 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 400 A |

| — at 60 V rated value | 400 A |
|---|--------------|
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 4 A |
| — at 600 V rated value | 2 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 11 A |
| — at 600 V rated value | 5.2 A |
| • at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 11 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.18 A |
| — at 600 V rated value | 0.125 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 2.5 A |
| — at 440 V rated value | 0.65 A |
| — at 600 V rated value | 0.37 A |
| | 0.57 A |
| with 3 current paths in series at DC-3 at DC-5 | 400 A |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 1.4 A |
| — at 600 V rated value | 0.75 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| • at AC-3e | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | 00 144 |
| • at 400 V rated value | 98 kW |
| at 690 V rated value | 148 kW |
| operating apparent power at AC-6a | 400,000 IAVA |
| up to 230 V for current peak value n=20 rated value | 160 000 kVA |
| • up to 400 V for current peak value n=20 rated value | 280 000 VA |
| • up to 500 V for current peak value n=20 rated value | 350 000 VA |
| up to 690 V for current peak value n=20 rated value | 490 000 VA |
| up to 1000 V for current peak value n=20 rated value | 310 000 VA |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=30 rated value | 110 000 VA |
| up to 400 V for current peak value n=30 rated value | 190 000 VA |
| • up to 500 V for current peak value n=30 rated value | 230 000 VA |
| • up to 690 V for current peak value n=30 rated value | 330 000 VA |
| • up to 1000 V for current peak value n=30 rated value | 310 000 VA |
| | |

| short-time withstand current in cold operating state up to 40 °C | |
|---|--|
| limited to 1 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 5 978 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 3 765 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 2 887 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | 2 007 A, OSC Millimum closs-section acc. to Ao-1 fated value |
| • at AC | 1 000 1/h |
| • at DC | 1 000 1/h |
| operating frequency | 1 000 1/11 |
| at AC-1 maximum | 500 1/h |
| • at AC-2 maximum | 170 1/h |
| • at AC-3 maximum | 420 1/h |
| at AC-3 maximum at AC-3e maximum | 420 1/h |
| at AC-3e maximum at AC-4 maximum | 130 1/h |
| | 130 1/11 |
| Control circuit/ Control | 40/00 |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | 00 4071/ |
| at 50 Hz rated value | 96 127 V |
| at 60 Hz rated value | 96 127 V |
| control supply voltage at DC rated value | 96 127 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| • initial value | 0.8 |
| full-scale value | 1.1 |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | 0.0 4.4 |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| type of PLC-control input according to IEC 60947-1 | Type 2 |
| consumed current at PLC-control input according to IEC 60947-1 maximum | 20 mA |
| voltage at PLC-control input rated value | 24 V |
| operating range factor of the voltage at PLC-control input | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power | |
| at minimum rated control supply voltage at AC | |
| — at 50 Hz | 560 VA |
| — at 60 Hz | 560 VA |
| at maximum rated control supply voltage at AC | |
| — at 60 Hz | 750 VA |
| — at 50 Hz | 750 VA |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 750 VA |
| • at 60 Hz | 750 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| ● at 60 Hz | 0.8 |
| apparent holding power | |
| at minimum rated control supply voltage at DC | 3 VA |
| at maximum rated control supply voltage at DC | 3.6 VA |
| apparent holding power | |
| at minimum rated control supply voltage at AC | |
| — at 50 Hz | 5.6 VA |
| — at 60 Hz | 5.6 VA |
| at maximum rated control supply voltage at AC | |
| — at 50 Hz | 9 VA |
| — at 60 Hz | 9 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.5 |
| • at 60 Hz | 0.4 |
| 31 VV | *** |

| closing newer of magnet call of DC | 900 W |
|---|--|
| closing power of magnet coil at DC | 800 W |
| holding power of magnet coil at DC | 3.6 W |
| closing delay • at AC | 60 90 ms |
| • at DC | 60 90 ms |
| opening delay | 60 90 IIIS |
| • at AC | 80 100 ms |
| • at DC | 80 100 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | PLC-IN or Standard A1 - A2 (adjustable) |
| Auxiliary circuit | PLO-IN OF Standard AT - AZ (adjustable) |
| number of NC contacts for auxiliary contacts instantaneous | 2 |
| contact | 2 |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 6 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 | 477 A |
| • at 600 V rated value | 472 A |
| yielded mechanical performance [hp] | |
| for 3-phase AC motor at 200/208 V rated value. | 150 hp |
| — at 200/208 V rated value | 150 hp |
| — at 220/230 V rated value | 200 hp |
| — at 460/480 V rated value | 400 hp |
| — at 575/600 V rated value | 500 hp A600 / Q600 |
| contact rating of auxiliary contacts according to UL Short-circuit protection | A000 / Q000 |
| | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | aG: 630 A (690 V 100 kA) |
| with type of coordination 1 required with type of assignment 2 required. | gG: 630 A (690 V, 100 kA) |
| — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) |
| • for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| nstallation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method side-by-side mounting | Yes |
| fastening method | screw fixing |
| height | 214 mm |
| | |

| Description Convarts | width | 160 mm |
|--|---|--------------------------|
| • with aide-by-eitle mounting | depth | 225 mm |
| — forwards — downwards — of wards — of wards — of wards — of wards — of regrence pats — forwards — opwards — of man — of the side — opwards — of man — of wards — opwards — opwards — of man — of wards — opwards — opw | - | |
| - upwards | with side-by-side mounting | |
| - downwards | — forwards | 20 mm |
| | — upwards | 10 mm |
| • for grounded parts | — downwards | 10 mm |
| - forwards | — at the side | 0 mm |
| - forwards | for grounded parts | |
| - upwards 10 mm 1 | | 20 mm |
| alt he side 10 mm | | |
| For Inversaria Forwards Fo | • | |
| - for live parts - forwards - upwards - downwards - at the side - at the side - and the side - and the side - and the side - formanctions/ terminals type of electrical connection - for auxiliary and control circuit - at contactor for auxiliary contacts - at contactor cross-section for auxiliary contacts - at contactor cross-section for auxiliary contacts - at connectable conductor cross-section for auxiliary contacts - at contactor cross-section for auxiliary contacts - a contactor cross-section for auxilia | | |
| - forwards | | No triali |
| - upwards | · | 20 mm |
| - downwards — at the side 10 mm - at the side 10 mm Connections Terminals type of electrical connection • for main current circuit contact spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • dramaged connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 11 mm number of holes 11 mm number of holes 12 mm type of connectable conductor cross-sections • for AWG cables for main contacts 20 mm² • finely stranded with core end processing 0.25 2.5 mm² • finely stranded without core end processing 0.25 2.5 mm² • for auxiliary contacts • solid or stranded 2 | | |
| — at the side | • | |
| type of electrical connection • for main current circuit • for auxillary and control circuit • for auxillary and control circuit • for auxillary and control circuit • of auxillary and control circuit • of auxillary and control circuit • of magnet coil width of connection bar thickness of connectable conductor cross-sections • for AWG cables for main contacts • solid or stranded • for inely stranded without core end processing • for connectable conductor cross-sections • for auxillary contacts • solid - solid or stranded • for auxillary contacts • solid - solid or stranded • for explaint contacts • for auxillary contacts • for au | | |
| type of olectrical connection • for main current circuit • for main current circuit • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil with of connection bar thickness of connection bar diameter of holes • for AWG cables for main contacts • stranded connectable conductor cross-section for auxiliary contacts • silvanded with core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - solid or stranded - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - solid or stranded - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - solid or | | IV IIIII |
| • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • of magnet coil width of connection bar diameter of holes • for AWG cables for main contacts • of magnet coil type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • solid or stranded conductable conductor cross-sections • for auxiliary contacts • for auxiliary contact | | |
| • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coll width of connection bar thickness of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections • finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processin | | |
| • at contactor for auxiliary contacts • of magnet coul • of connectable conductor cross-sections • for AWG cables for main contacts • of ra AWG cables for main contacts • stranded • of a AWG cables for main contacts • of a radied • of a radial productor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for own contactable conductor cross-sections • for a suitiary contacts • solid or stranded • finely stranded with core end processing • for fav Will are a soded connectable conductor cross-sections • for a suitiary contacts • for a variliary contacts • section • for a variliary contacts • section • for a variliary contacts • section • positively driven operation according to IEC 60947-5-1 • vith low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • | | |
| width of connection bar diameter of holes type of connectable conductor cross-sections of AWG cables for main contacts estranded connectable conductor cross-section for main contacts of holes stranded connectable conductor cross-section for main contacts of a stranded connectable conductor cross-section for auxiliary contacts of linely stranded with core end processing finely stranded without core end processing of auxiliary contacts of or auxiliary contacts of or auxiliary contacts of auxilia | • | |
| width of connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1 type of connectable conductor cross-sections 2 0 500 kcmil connectable conductor cross-section for main contacts 2 0 240 mm² e stranded 70 240 mm² connectable conductor cross-section for auxiliary contacts 5 off conductor cross-section for auxiliary contacts e solid or stranded 0.25 2.5 mm² finely stranded with core end processing 0.25 2.5 mm² type of connectable conductor cross-sections 6 or auxiliary contacts e for auxiliary contacts 2x (0.25 2.5 mm²) - solid 2x (0.25 2.5 mm²) - solid or stranded with core end processing 2x (0.25 2.5 mm²) - finely stranded with core end processing 2x (0.25 2.5 mm²) - finely stranded without core end processing 2x (0.25 2.5 mm²) - for auxiliary contacts 2x (24 14 AWG number as coded connectable conductor cross-section 2x (24 14) section 4 for auxiliary contacts 2x (24 14) section <th< td=""><td>•</td><td></td></th<> | • | |
| thickness of connection bar diameter of holes 11 mm number of holes 11 mm number of holes 12 mumber of holes | of magnet coil | Spring-type terminals |
| diameter of holes 11 mm number of holes 1 type of connectable conductor cross-sections • for AWC cables for main contacts 20 500 kcmil connectable conductor cross-section for main contacts • siranded 70 240 mm² connectable conductor cross-section for auxiliary contacts 5 solid or stranded • solid or stranded with core end processing 0.25 2.5 mm² • finely stranded without core end processing 0.25 2.5 mm² • for auxiliary contacts 2 x (0.25 2.5 mm²) • solid or stranded 2 x (0.25 2.5 mm²) - solid or stranded 2 x (0.25 2.5 mm²) - solid or stranded with core end processing 2 x (0.25 2.5 mm²) - finely stranded with core end processing 2 x (0.25 2.5 mm²) - finely stranded without core end processing 2 x (0.25 2.5 mm²) - for AWG cables for auxiliary contacts 2 x (2.4 14) AWG number as coded connectable conductor cross section • for auxiliary contacts 2 4 14 Safety related data Product function • mirror contact according to IEC 60947-4-1 Yes • suitable for safely function | width of connection bar | 25 mm |
| type of connectable conductor cross-sections | thickness of connection bar | 6 mm |
| type of connectable conductor cross-sections of rAWG cables for main contacts connectable conductor cross-section for main contacts of standed connectable conductor cross-section for auxiliary contacts of sidior stranded of inely stranded with core end processing of nely stranded with core end processing of auxiliary contacts of a WG auther as coded connectable conductor cross-sections of a WG auther as coded connectable conductor cross section of a waxiliary contacts AWG number as coded connectable conductor cross section of a uxiliary contacts of a uxiliary contacts 2x (0.25 2.5 mm²) 2x | diameter of holes | 11 mm |
| onnectable conductor cross-section for main contacts | number of holes | 1 |
| connectable conductor cross-section for main contacts | type of connectable conductor cross-sections | |
| stranded connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing for auxiliary contacts - solid - solid or stranded - solid or stranded - finely stranded without core end processing - solid - solid - solid - solid - solid or stranded - finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts 2x (0.25 2.5 mm²) - finely stranded without core end processing - for AWG cables for auxiliary contacts - sort of auxiliary contacts - for auxiliary contacts - solid - wirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 - suitable for safety function - wirror contact according to IEC 60947-5-1 - suitablity for use safety-related switching OFF - Yes; safety-related disconnection via A1 A2 - service life maximum - 20 a - service life maximum - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - 100 000 - 100 FIT | for AWG cables for main contacts | 2/0 500 kcmil |
| esolid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts 24 14 AWG number as coded connectable conductor cross section • for auxiliary contacts 24 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitability for use safety-related switching OFF ves service life maximum 20 a test wear-related service life necessary proportion of dangerous fallures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 1000 000 fallure rate [FIT] with low demand rate according to SN 31920 1000 000 fallure rate [FIT] with low demand rate according to SN 31920 1000 000 | connectable conductor cross-section for main contacts | |
| solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts — solid — solid | • stranded | 70 240 mm² |
| infinely stranded with core end processing infinely stranded without core end processing infinely stranded without core end processing info rauxiliary contacts infinely stranded infinely stranded infinely stranded with core end processing infinely stranded with core end processing infinely stranded with core end processing infinely stranded without core end processing infinely stranded wi | connectable conductor cross-section for auxiliary contacts | |
| • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid | solid or stranded | 0.25 2.5 mm² |
| type of connectable conductor cross-sections • for auxiliary contacts — solid | finely stranded with core end processing | 0.25 1.5 mm² |
| • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts 24 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function suitablity for use safety-related switching OFF yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 aliure rate [FIT] with low 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 failure rate [FIT] with low 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 | finely stranded without core end processing | 0.25 2.5 mm ² |
| - solid 2x (0.25 2.5 mm²) - solid or stranded 2x (0.25 2,5 mm²) - finely stranded with core end processing 2x (0.25 1.5 mm²) - finely stranded without core end processing 2x (0.25 1.5 mm²) - finely stranded without core end processing 2x (0.25 2.5 mm²) - for AWG cables for auxiliary contacts 2x (24 14) AWG number as coded connectable conductor cross section - for auxiliary contacts 24 14 Safety related data product function - mirror contact according to IEC 60947-4-1 Yes - positively driven operation according to IEC 60947-5-1 No - suitable for safety function Yes suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Yes proportion of dangerous failures - with low demand rate according to SN 31920 40 % - with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1000 000 failure rate [FIT] with low demand rate according to SN 31920 1000 FIT | type of connectable conductor cross-sections | |
| - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section - for auxiliary contacts 24 14 AWG number as coded connectable conductor cross section - for auxiliary contacts 24 14 Safety related data product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 - suitable for safety function ves suitability for use safety-related switching OFF yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary proportion of dangerous failures - with low demand rate according to SN 31920 - with high 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 failure rate [FIT] with low demand rate according to SN 31920 | for auxiliary contacts | |
| finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 2x (24 14) AWG number as coded connectable conductor cross section for auxiliary contacts for auxiliary contacts 24 14 Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitable for safety function suitablity for use safety-related switching OFF yes; safety-related disconnection via A1 A2 service life maximum yes proportion of dangerous failures with low demand rate according to SN 31920 with high 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 failure rate [FIT] with low demand rate according to SN 31920 | — solid | 2x (0.25 2.5 mm²) |
| finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 2x (0.25 2.5 mm²) 2x (24 14) AWG number as coded connectable conductor cross section for auxiliary contacts for auxiliary contacts 24 14 Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitability for use safety function suitability for use safety-related switching OFF yes; safety-related disconnection via A1 A2 service life maximum with low demand rate according to SN 31920 with low demand rate according to SN 31920 with high 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 | — solid or stranded | 2x (0,25 2,5 mm²) |
| - finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts 4 14 Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF service life maximum 20 a test wear-related service life necessary 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 failure rate [FIT] with low 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 suitability for use safety-related switching OFF service life maximum function function 20 a 40 % 60 0000 failure rate [FIT] with low demand rate according to SN 31920 function functio | | |
| • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts 24 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 with high demand rate according to SN 31920 1000 000 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 1000 FIT | | |
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| e for auxiliary contacts 24 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No • suitable for safety function Yes suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Yes proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1000 000 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 | · | , |
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| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 To 3 % B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 100 FIT | for auxiliary contacts | 24 14 |
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| mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 31920 100 FIT | product function | |
| positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 1000 FIT | | Yes |
| suitable for safety function yes suitablity for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Yes proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 31920 1 000 FIT | | |
| suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2 service life maximum 20 a test wear-related service life necessary Yes proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 The structure of the service life necessary The structure of the service life necessary Yes 40 % The structure of the service life necessary The structure of the service life necessary Yes 100 % The structure of the service life necessary The structure of the service life necessary The structure of the service life necessary Yes 100 % The structure of the service life necessary The stru | | |
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| test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 1000 FIT | · | · |
| proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 31920 100 FIT | | |
| with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 1000 000 failure rate [FIT] with low demand rate according to SN 31920 | · · · · · · · · · · · · · · · · · · · | |
| ● with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 31920 100 FIT | | 40 % |
| B10 value with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 100 FIT 100 FIT | - | |
| failure rate [FIT] with low demand rate according to SN 100 FIT 31920 | · | |
| 31920 | | |
| | | 100 FII |
| ISO 13849 | | |

| device type according to ISO 13849-1 | 3 |
|---|--|
| overdimensioning according to ISO 13849-2 necessary | Yes |
| IEC 61508 | |
| safety device type according to IEC 61508-2 | Type A |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP00; IP20 with box terminal/cover |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with box terminal/cover |
| Approvals Certificates | |

General Product Approval







Confirmation





Functional Saftey Test Certificates Marine / Shipping

Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>







Marine / Shipping

other





Miscellaneous

Confirmation

Miscellaneous

Confirmation

Railway **Environment**

Special Test Certific-<u>ate</u>

Environmental Confirmations

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=3RT1076-2NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-2NF36

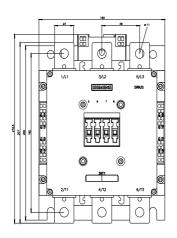
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

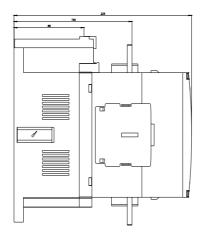
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2NF36

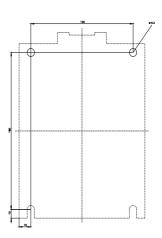
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

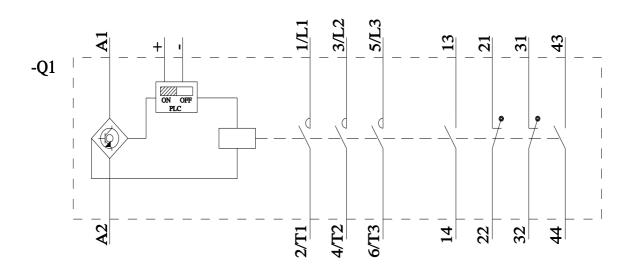
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-2NF36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current



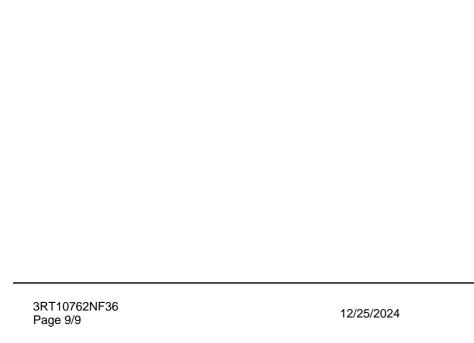






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