SIEMENS

Data sheet

3RT2046-1SF30



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 83-150 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, screw terminal, size: S3, F-PLC-IN

| number of burned in some | |
|---|---|
| product brand name | SIRIUS |
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S3 |
| 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 | 19.8 W |
| at AC in hot operating state per pole | 6.6 W |
| without load current share typical | 3.5 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 | 690 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 | 10.3g / 5 ms, 6,.g / 10 ms |
| • at DC | 6.7 g / 5 ms, 4g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 16.3g / 5 ms, 10.g / 10 ms |
| • at DC | 10.6 g / 5 ms, 6.3 g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 5 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 5 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 01/29/2021 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 |
| Weight | 1.833 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 10 % |
| relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 | 95 % |
| maximum | 35 76 |
| 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 value | 130 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 130 A |
| — up to 690 V at ambient temperature 60 °C rated value | 110 A |
| • at AC-3 | |
| — at 400 V rated value | 95 A |
| — at 500 V rated value | 95 A |
| — at 690 V rated value | 78 A |
| — at 1000 V rated value | 30 A |
| • at AC-3e | |
| - at 400 V rated value | 95 A |
| - at 500 V rated value | 95 A |
| — at 690 V rated value | 78 A |
| — at 1000 V rated value at AC-4 at 400 V rated value | 30 A 80 A |
| at AC-5a up to 690 V rated value | 00 A 114 A |
| at AC-50 up to 400 V rated value | 95 A |
| • at AC-5a | 55 A |
| up to 230 V for current peak value n=20 rated value | 84.4 A |
| — up to 400 V for current peak value n=20 rated value | 84.4 A |
| — up to 500 V for current peak value n=20 rated value | 84.4 A |
| — up to 690 V for current peak value n=20 rated value | 58 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 56.3 A |
| — up to 400 V for current peak value n=30 rated value | 56.3 A |
| — up to 500 V for current peak value n=30 rated value | 56.3 A |
| — up to 690 V for current peak value n=30 rated value | 56.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 50 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 42 A |
| • at 690 V rated value | 30 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 60 A |
| — at 110 V rated value | 9 A |
| — at 220 V rated value | 2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.4 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 10 A |
| — at 440 V rated value | 1.8 A |

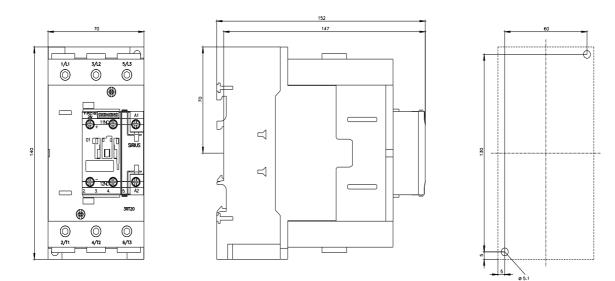
| — at 600 V rated value | 1 A |
|--|---|
| • with 3 current paths in series at DC-1 | 400.4 |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 80 A |
| — at 440 V rated value | 4.5 A |
| — at 600 V rated value | 2.6 A |
| at 1 current path at DC-3 at DC-5 | 40 A |
| — at 24 V rated value | 40 A |
| — at 60 V rated value | 6 A |
| — at 110 V rated value | 2.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.15 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 | 400.4 |
| | 100 A 100 A |
| — at 60 V rated value | |
| — at 110 V rated value — at 220 V rated value | 100 A |
| | 7 A |
| — at 440 V rated value | 0.42 A 0.16 A |
| — at 600 V rated value | 0. 10 A |
| with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value | 100 A |
| — at 24 V rated value — at 60 V rated value | 100 A |
| | 100 A |
| — at 110 V rated value — at 220 V rated value | 35 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.35 A |
| operating power | 0.00 A |
| at AC-2 at 400 V rated value | 45 kW |
| • at AC-3 | |
| — at 230 V rated value | 22 kW |
| — at 400 V rated value | 45 kW |
| — at 500 V rated value | 55 kW |
| — at 690 V rated value | 75 kW |
| — at 1000 V rated value | 37 kW |
| • at AC-3e | |
| — at 230 V rated value | 22 kW |
| — at 400 V rated value | 45 kW |
| — at 500 V rated value | 55 kW |
| — at 690 V rated value | 75 kW |
| — at 1000 V rated value | 37 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| • at 400 V rated value | 22 kW |
| at 690 V rated value | 27.4 kW |
| operating apparent power at AC-6a | 50.000 \/A |
| up to 400 V for current peak value n=20 rated value | 58 000 VA |
| • up to 500 V for current peak value n=20 rated value | 73 000 VA |
| up to 690 V for current peak value n=20 rated value | 69 000 VA |
| operating apparent power at AC-6a | 22 400 VA |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value | 39 000 VA |
| up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value | 48 700 VA |
| up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value | 67 300 VA |
| short-time withstand current in cold operating state up to | |
| 40 °C | |
| limited to 1 s switching at zero current maximum | 1 725 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 1 297 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 946 A; Use minimum cross-section acc. to AC-1 rated value |

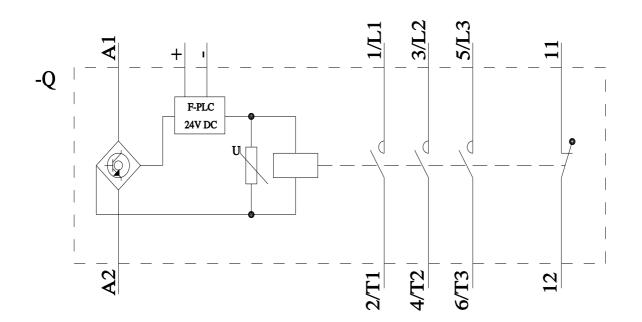
| limited to 30 s switching at zero current maximum | 610 A; Use minimum cross-section acc. to AC-1 rated value |
|---|---|
| limited to 60 s switching at zero current maximum | 486 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 1 000 1/h |
| • at DC | 1 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 900 1/h |
| • at AC-2 maximum | 350 1/h |
| • at AC-3 maximum | 850 1/h |
| • at AC-3e maximum | 850 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 83 150 V |
| • at 60 Hz rated value | 83 150 V |
| control supply voltage at DC rated value | 83 150 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| • initial value | 0.8 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| type of PLC-control input according to IEC 60947-1 | Туре 1 |
| consumed current at PLC-control input according to IEC 60947-1 maximum | 11 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 |
| inrush current peak | 25 A |
| duration of inrush current peak | 10 µs |
| locked-rotor current mean value | 1.2 A |
| locked-rotor current peak | 2.7 A |
| duration of locked-rotor current | 150 ms |
| holding current mean value | 0.016 A |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 163 VA |
| • at 60 Hz | 163 VA |
| apparent holding power | |
| at minimum rated control supply voltage at DC | 1.8 VA |
| at maximum rated control supply voltage at DC | 1.8 VA |
| apparent holding power | |
| at minimum rated control supply voltage at AC | 0.43/4 |
| — at 50 Hz | 2.4 VA |
| — at 60 Hz | 2.4 VA |
| • at maximum rated control supply voltage at AC | 2.4.1/4 |
| — at 50 Hz — at 60 Hz | 2.4 VA 2.4 VA |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 2.4 VA |
| • at 50 Hz | 2.4 VA 2.4 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.95 |
| • at 50 Hz | 0.95 |
| closing power of magnet coil at DC | 130 W |
| holding power of magnet coil at DC | 1.8 W |
| closing delay | |
| • at AC | 50 70 ms |
| • at DC | 50 70 ms |
| opening delay | |

| • at AC | 38 57 ms |
|---|--|
| • at DC | 38 57 ms |
| • at DC recovery time after power failure typical | 38 57 ms 2.1 s |
| | 2.15 1020 ms |
| arcing time | |
| control version of the switch operating mechanism Auxiliary circuit | Fail-safe PLC input (F-PLC-IN) |
| | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact | |
| number of NO contacts for auxiliary contacts instantaneous contact | 0 |
| 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 | 96 A |
| • at 600 V rated value | 77 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 10 hp |
| — at 230 V rated value | 20 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 30 hp |
| — at 220/230 V rated value | 30 hp |
| — at 460/480 V rated value | 75 hp |
| — at 575/600 V rated value | 75 hp |
| contact rating of auxiliary contacts according to UL | A600 / P600 |
| Short-circuit protection | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| - with type of coordination 1 required | gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) |
| - with type of assignment 2 required | gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method side-by-side mounting | Yes |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| u u u u u u u u u u u u u u u u u u u | |

| height | 140 mm |
|--|---|
| width | 70 mm |
| depth | 152 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | 0 mm |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for main current circuit for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals |
| of magnet coil | Screw-type terminals |
| type of connectable conductor cross-sections | |
| for main contacts | |
| finall contacts finally stranded with core end processing | 2x (2.5 35 mm²), 1x (2.5 50 mm²) |
| for AWG cables for main contacts | 2x (2.5 35 mm), 1x (2.5 35 mm) |
| connectable conductor cross-section for main contacts | 2X (10 1/0), 1X (10 2) |
| solid | 2.5 16 mm² |
| stranded | 6 70 mm ² |
| finely stranded with core end processing | 2.5 50 mm ² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 2.5 mm² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 10 2 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| positively driven operation according to IEC 60947-5-1 | No |
| suitable for safety function | Yes |
| suitability for use safety-related switching OFF | Yes |
| safe state | off |
| test wear-related service life necessary | Yes |
| diagnostics test interval by internal test function maximum | 28 800 s |
| stop category according to IEC 60204-1 | 0 |
| 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 | 100 FIT |
| 31920 | |

| LIRS REAL RANKS ate firmations | MTBF | | | 52 a | | | | |
|--|---|--|--|---|---|----------------|----------------------------------|--|
| Safety Integrity Level (SIL) according to IEC 62061 SIL 2 PFHD with light demand rate according to IEC 62061 7.7E-8 1/h Soft Taska PL c catagory according to ISO 13849-1 2 device type according to ISO 13849-1 1 overdimensioning according to ISC 61506 2 Safety Integrity Level (SIL) according to ISC 61506 2 Safety Integrity Level (SIL) according to ISC 61508 7.7E-8 1/h PFD with ligh demand rate according to IEC 61508 7.7E-8 1/h PFDag with low demand rate according to IEC 61508 0.007 Safety Integrity Level (SIL) according to IEC 61508 0.007 Safety Integrity Level (SIL) according to IEC 61508 0.007 Safety Integrity Level (SIL) according to IEC 61508 0.007 Safety Integrity Level (SIL) according to IEC 61508 0.007 Safet alter factor (SFF) 90 % Integrity Level (SIL) according to IEC 61508 0.007 Safet alter factor (SFF) 90 % Integrity Level (SIL) according to IEC 61508 0.007 Safet alter factor (SFF) 90 % Integrity Level (SIL) according to IEC 61508 0.007 Safet alter factor (SFF) 90 % Integrity Level (SIL) according to IEC 61508 0.007 Safet alter factor (SFF) 90 % Integrity Leve | | | | | | | | |
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