SIEMENS

Data sheet

3RT2035-1SB30



contactor, AC-3, 40 A/400 V/60 $^\circ C$ S2, 3-pole, 21-33 V AC/DC, F-PLC-IN, with varistor, 1 NC, screw terminal

| product brand name | SIRIUS |
|---|---------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S2 |
| 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 | 6.6 W |
| at AC in hot operating state per pole | 2.2 W |
| without load current share typical | 2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 7.7g / 5 ms, 4.5g / 10 ms |
| ● at DC | 7.7g / 5 ms, 4.5g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 12g / 5 ms, 7g / 10 ms |
| ● at DC | 12g / 5 ms, 7g / 10 ms |
| mechanical service life (switching 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 |
| 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 |
| | |

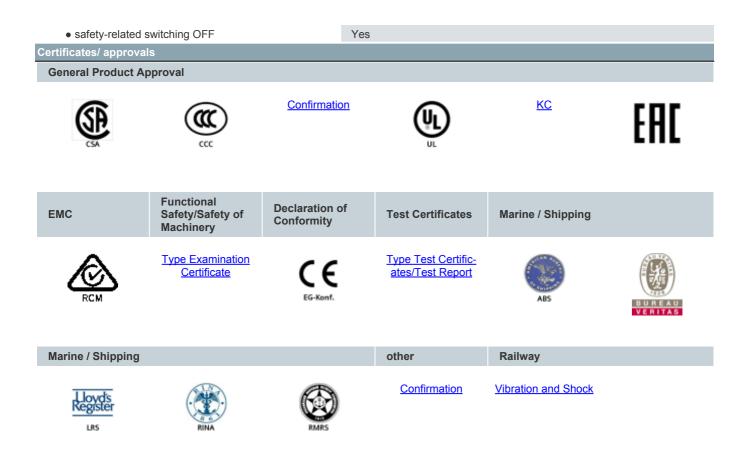
| relative humidity minimum | 10 % |
|---|-----------------|
| relative humidity at 55 °C according to IEC 60068-2-30 | 95 % |
| maximum | |
| Main circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C | 60 A |
| rated value ● at AC-1 | |
| up to 690 V at ambient temperature 40 °C | 60 A |
| rated value | |
| — up to 690 V at ambient temperature 60 °C rated value | 55 A |
| • at AC-3 | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| • at AC-3e | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| • at AC-4 at 400 V rated value | 35 A |
| at AC-5a up to 690 V rated value | 52.8 A |
| at AC-5b up to 400 V rated value | 33.2 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 36.5 A |
| — up to 400 V for current peak value n=20 rated value | 36.5 A |
| — up to 500 V for current peak value n=20 rated value | 36.5 A |
| — up to 690 V for current peak value n=20 rated value | 24 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 24.2 A |
| — up to 400 V for current peak value n=30 rated value | 24.2 A |
| — up to 500 V for current peak value n=30 rated value | 24.2 A |
| — up to 690 V for current peak value n=30 rated value | 24 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 16 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 22 A |
| at 690 V rated value | 18.5 A |
| operational current | |
| at 1 current path at DC-1 | 55 A |
| — at 24 V rated value | 55 A 4.5 A |
| — at 110 V rated value — at 220 V rated value | 4.5 A 1 A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.4 A 0.25 A |
| with 2 current paths in series at DC-1 | 0.20 M |
| - at 24 V rated value | 55 A |
| — at 110 V rated value | 45 A |
| — at 220 V rated value | 5 A |
| | |

| — at 440 V rated value | 1 A |
|---|---|
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 45 A |
| — at 440 V rated value | 2.9 A |
| — at 600 V rated value | 1.4 A |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 2.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.1 A |
| — at 600 V rated value | 0.06 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 55 A |
| — at 110 V rated value | 25 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 0.27 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| - at 24 V rated value | 55 A |
| — at 24 V rated value — at 110 V rated value | 55 A |
| — at 220 V rated value | 25 A |
| | |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.35 A |
| operating power | 40 51111 |
| at AC-2 at 400 V rated value | 18.5 kW |
| • at AC-3 | |
| — at 230 V rated value | 11 kW |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 22 kW |
| • at AC-3e | |
| — at 230 V rated value | 11 kW |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 22 kW |
| operating power for approx. 200000 operating cycles | |
| at AC-4 | |
| • at 400 V rated value | 11.6 kW |
| • at 690 V rated value | 16.8 kW |
| operating apparent power at AC-6a | |
| up to 400 V for current peak value n=20 rated value | 25 200 VA |
| up to 500 V for current peak value n=20 rated value | 31 600 VA |
| up to 690 V for current peak value n=20 rated value | 28 600 VA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 9 600 VA |
| • up to 400 V for current peak value n=30 rated value | 16 800 VA |
| • up to 500 V for current peak value n=30 rated value | 21 000 VA |
| • up to 690 V for current peak value n=30 rated value | 28 600 VA |
| short-time withstand current in cold operating state up to 40 °C | |
| Imited to 1 s switching at zero current maximum | 843 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 596 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 400 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 241 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 196 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 |
| • al DU | 1 000 1/11 |

| operating frequency | |
|--|--------------------------------|
| • at AC-1 maximum | 1 000 1/h |
| at AC-2 maximum | 750 1/h |
| at AC-3 maximum | 1 000 1/h |
| • at AC-3e maximum | 1 000 1/h |
| • at AC-4 maximum | 300 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 | 21 33 V |
| at 60 Hz rated value | 21 33 V |
| control supply voltage at DC | |
| rated value | 21 33 V |
| type of PLC-control input according to IEC 60947-1 | Type 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 |
| 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 |
| design of the surge suppressor | with varistor |
| inrush current peak | 2.2 A |
| duration of inrush current peak | 100 µs |
| locked-rotor current mean value | 1.6 A |
| locked-rotor current peak | 2.6 A |
| duration of locked-rotor current | 230 ms |
| holding current mean value | 0.075 A |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 40 VA |
| • at 60 Hz | 40 VA |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 2 VA |
| • at 60 Hz | 2 VA |
| closing power of magnet coil at DC | 40 W |
| holding power of magnet coil at DC | 1.6 W |
| closing delay | |
| • at AC | 35 110 ms |
| • at DC | 35 110 ms |
| opening delay | |
| • at AC | 30 55 ms |
| • at DC | 30 55 ms |
| recovery time after power failure typical | 2.1 s |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Fail-safe PLC input (F-PLC-IN) |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous contact | 1 |
| 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 | 10 A |
| at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |

| | 4.4 |
|--|--|
| 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 | 1A |
| • at 125 V rated value | 0.9 A |
| at 120 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 | 40 A |
| at 600 V rated value | 41 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 3 hp |
| — at 230 V rated value | 7.5 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 10 hp |
| — at 220/230 V rated value | 15 hp |
| — at 460/480 V rated value | 30 hp |
| — at 575/600 V rated value | 40 hp |
| contact rating of auxiliary contacts according to UL | A600 / P600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 |
| | V, 80 kA) |
| — with type of assignment 2 required | gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) |
| for short-circuit protection of the auxiliary switch | gG: 10 A (500 V, 1 kA) |
| required | |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method | · - |
| | screw and snap-on mounting onto 35 mm standard mounting rail |
| | according to DIN EN 60715 |
| side-by-side mounting | according to DIN EN 60715 Yes |
| height | according to DIN EN 60715 Yes 114 mm |
| height width | according to DIN EN 60715 Yes 114 mm 55 mm |
| height width depth | according to DIN EN 60715 Yes 114 mm |
| height width depth required spacing | according to DIN EN 60715 Yes 114 mm 55 mm |
| height width depth required spacing • with side-by-side mounting | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm |
| height width depth required spacing | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 0 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 0 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards | according to DIN EN 60715 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 0 mm 10 mm 10 mm |

| — forwards | 10 mm |
|---|--|
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | 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 | |
| — solid or stranded | 2x (1 35 mm²), 1x (1 50 mm²) |
| finely stranded with core end processing | 2x (1 25 mm²), 1x (1 35 mm²) |
| at AWG cables for main contacts | 2x (18 2), 1x (18 1) |
| connectable conductor cross-section for main | |
| contacts | |
| finely stranded with core end processing | 1 35 mm² |
| connectable conductor cross-section for auxiliary | |
| contacts solid or stranded | $0.5 - 2.5 \text{ mm}^2$ |
| | 0.5 2.5 mm ² |
| finely stranded with core end processing type of connectable conductor cross-sections | 0.5 2.5 mm² |
| for auxiliary contacts | |
| - solid or stranded | $2x (0.5, 1.5 \text{ mm}^2) 2x (0.75, 2.5 \text{ mm}^2)$ |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG cables for auxiliary contacts | 2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross | |
| section | |
| for main contacts | 18 1 |
| for auxiliary contacts | 20 14 |
| | |
| Safety related data | |
| Safety related data product function | |
| | Yes |
| product function | Yes No |
| product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 | No |
| product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 | No Type B |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 | No Type B 1 000 000 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 | No Type B 1 000 000 2 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 | No Type B 1 000 000 2 2 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 | No Type B 1 000 000 2 2 2 c |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 | No Type B 1 000 000 2 2 2 6 2 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 | No Type B 1 000 000 2 2 2 0 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) | No Type B 1 000 000 2 2 2 C 2 2 0 96 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function | No Type B 1 000 000 2 2 2 0 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum | No Type B 1 000 000 2 2 2 C 2 2 0 96 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures | No Type B 1 000 000 2 2 2 C 2 2 0 96 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 | No Type B 1 000 000 2 2 2 C 2 0 96 % 28 800 s |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures | No Type B 1 000 000 2 2 2 C C 2 0 96 % 28 800 s 40 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 | No Type B 1 000 000 2 2 2 2 C C 2 0 96 % 28 800 s 40 % 73 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 | No Type B 1 000 000 2 2 2 2 C C 2 0 96 % 28 800 s 40 % 73 % |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN 1SO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • 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 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 | No Type B 1 000 000 2 2 2 2 C C 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF | No Type B 1 000 000 2 2 2 2 C 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 | No Type B 1 000 000 2 2 2 2 2 C C 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y 0 |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF | No Type B 1 000 000 2 2 2 2 C 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y |
| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • 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 PFHD with high demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to | No Type B 1 000 000 2 2 2 2 C C 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y 0 |
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| product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • 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 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 61508 protection class IP on the front according to IEC 60529 | No Type B 1 000 000 2 2 2 C C 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y 0 20 y IP20 |



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1SB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1SB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1SB30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1SB30&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1SB30/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1SB30&objecttype=14&gridview=view1

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