

SIEMENS

Data sheet 3RH2131-1AP00



contactor relay, 3 NO + 1 NC, 230 V AC, 50/60 Hz, screw terminal, frame size S00

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Auxiliary contactor |
| product type designation | 3RH2 |
| General technical data | |
| size of contactor | S00 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current without load current share typical | 1.43 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| shock resistance at rectangular impulse | |
| • at AC | 7,3g / 5 ms, 4,7g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 30 000 000 |
| 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 | K |
| Substance Prohibitance (Date) | 10/01/2009 |
| Weight | 0.233 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 maximum | 95 % |
| Environmental footprint | |
| Environmental Product Declaration(EPD) | Yes |
| global warming potential [CO2 eq] total | 49.2 kg |
| global warming potential [CO2 eq] during manufacturing | 1.15 kg |
| global warming potential [CO2 eq] during operation | 48.2 kg |
| global warming potential [CO2 eq] after end of life | -0.139 kg |
| Main circuit | |
| no-load switching frequency | |
| • at AC | 10 000 1/h |
| • at DC | 10 000 1/h |

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| Control circuit/ Control | |
|---|-----------|
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | AU . |
| at 50 Hz rated value | 230 V |
| at 60 Hz rated value at 60 Hz rated value | 230 V |
| | 230 V |
| control supply voltage frequency | FOLIS |
| • 1 rated value | 50 Hz |
| 2 rated value | 60 Hz |
| 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 | 37 VA |
| inductive power factor with closing power of the coil | 0.8 |
| apparent holding power of magnet coil at AC | 5.7 VA |
| inductive power factor with the holding power of the coil | 0.25 |
| closing delay | |
| • at AC | 8 33 ms |
| opening delay | |
| • at AC | 4 15 ms |
| arcing time | 10 15 ms |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 1 |
| • instantaneous contact | 1 |
| number of NO contacts for auxiliary contacts | 3 |
| • instantaneous contact | 3 |
| identification number and letter for switching elements | 31 E |
| 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 | 1A |
| operational current at 1 current path at DC-12 | - '' |
| at 24 V rated value | 10 A |
| at 110 V rated value | 3 A |
| at 220 V rated value | 1 A |
| at 440 V rated value | 0.3 A |
| at 600 V rated value | 0.15 A |
| operational current with 2 current paths in series at DC-12 | |
| • at 24 V rated value | 10 A |
| at 60 V rated value | 10 A |
| at 110 V rated value | 4 A |
| at 220 V rated value | 2 A |
| at 440 V rated value | 1.3 A |
| at 600 V rated value | 0.65 A |
| operational current with 3 current paths in series at DC-12 | |
| • at 24 V rated value | 10 A |
| at 60 V rated value | 10 A |
| at 110 V rated value at 110 V rated value | 10 A |
| at 110 V rated value at 220 V rated value | 3.6 A |
| at 440 V rated value | 2.5 A |
| at 440 V rated value at 600 V rated value | 1.8 A |
| | |
| operating frequency at DC-12 maximum | 1 000 1/h |
| operational current at 1 current path at DC-13 | 40.0 |
| at 24 V rated value at 440 V rated value | 10 A |
| • at 110 V rated value | 1 A |
| at 220 V rated value | 0.3 A |
| at 440 V rated value | 0.14 A |
| at 600 V rated value | 0.1 A |
| operational current with 2 current paths in series at DC-13 | |

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| • • 10 ft V rated value 3.5 A • 11 10 V rated value 1.3 A • 12 20 V rated value 0.9 A • 4 46 V rated value 0.2 A • 10 00 V rated value 0.1 A operational current with 3 current paths in series at DC-13 1.0 A • 24 V rated value 4.7 A • 10 OV rated value 3.5 A • 12 20 V rated value 1.2 A • 12 40 V rated value 0.5 A • 12 20 V rated value 0.2 A • 12 20 V rated value 0.5 A • 10 V rated value 0.5 A • 10 V rated value 0.5 A • 10 V rated value 0.5 A • 15 V rated value 0.5 A • 15 V rated value 0.5 A • 16 V rated value 0.5 A • 16 V rated value 0.5 A • 17 V rated value 0.2 A • 17 V rated value 0.5 A | | |
|--|--|--|
| • at 110 V rated value | at 24 V rated value | 10 A |
| | • at 60 V rated value | 3.5 A |
| ear 440 V rated value | at 110 V rated value | 1.3 A |
| ear 440 V rated value | at 220 V rated value | 0.9 A |
| | at 440 V rated value | 0.2 A |
| operational current with 3 current paths in series at DC-13 • al 24 V rated value • at 10 V rated value • at 10 V rated value • at 10 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 40 V rated value • at 40 V rated value • at 40 V rated value • at 60 V rated value • of orgounded parts • of orgounded parts • of reverands • of reverands • of reverands • of orgounded parts • of orgounded parts • of owwards • of orgounded parts • of owwards • of orgounded parts • of orgounded parts • of orgounded conscious of the sale of orgounded conscious of organization of the parts • of orgounded | at 600 V rated value | |
| a 12 4V rated value at 60 V rated value at 60 V rated value at 220 V rated value at 220 V rated value at 40 V rated value be at 40 V rated value at 40 V rated value at 40 V rated value be at 40 V rated value at 40 V rated value be at 40 V rated value at 40 V rated value be at 40 V rated value at 40 V rated value be at 40 V rated value at 40 V rated value be at 40 V rated | | 0.170 |
| e. at 60 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 120 V rated value at 440 V rated value at 440 V rated value at 460 V rated value at 600 | • | 10 Δ |
| at 110 V rated value at 220 V rated value at 220 V rated value but 40 V rated value at 500 V rated value at 500 V rated value borating frequency at DC-13 maximum acontact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Shore-Circuity protection Contact rating of auxiliary contacts according to UL Shore-Circuity protection of the auxiliary circuit up to 230 V design of the uniform circuit protection of the auxiliary switch required frequency at DC-13 visual to 10 cm of | | |
| at 40 V rated value at 40 V rated value 0.26 A 0.5 A 0.26 N 0.26 A 0.5 | | |
| ot 1400 V rated value operating frequency at DC-13 maximum tools of the value operating frequency at DC-13 maximum tools of the value operating frequency at DC-13 maximum tools of the value operating frequency at DC-13 maximum tool of Viv. 1 mA) Viv.CSA ratings Contact rating of auxiliary contacts according to UL A600 / C600 Short-Circuit protection of the auxiliary circuit protection of the auxiliary circuit up to 230 V design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for short-circuit protection of the auxiliary switch required maximum protection A600 / C600 Table 1000 / C C characteristic: 10 A; 0.4 kA design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for short-circuit protection of the auxiliary switch required maximum protection A600 / C600 Table 1000 / C C characteristic: 10 A; 0.4 kA design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for short-circuit protection of the auxiliary switch required fasting maximum protection A600 / C600 Table 1000 / C C characteristic: 10 A; 0.4 kA design of the fusion information of the auxiliary switch required space of the fusion possible on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical mounting surface, can be titled forward and backward by 4/-22 5' on vertical | | |
| • at 500 V rated value oparating frequency at DC-13 maximum contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the ministure circuit broaker for short-circuit protection of the auxiliary octout up to 230 V design of the fuse link for short-circuit protection of the auxiliary witch required finatibilition mounting dimensions **Testing method** fastening method screw and snap-on mounting outsides; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on vertical mounting surface; can be titled forward and backward by 9+7.22.5° on ve | | |
| operating frequency at DC-13 maximum contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UUCSA retings contact rating of auxiliary contacts according to UL. A600 / Ce00 Short-Creuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required interest in the short-circuit protection of the auxiliary switch required interest | | |
| Contact rollability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UUCSA ratings Contact rating of auxiliary contacts according to UL. A800 / Q600 Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the final link for short-circuit protection of the auxiliary vinch required (Institution) mounting protection mounting position 4-7180" rotation possible on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical mounting surface, can be tilted forward and backward by 4-7.22.5" on vertical m | | |
| contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 220 V design of the fuse link for short circuit protection of the auxiliary switch required installation mounting dimensions mounting position ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. fastening method ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. fastening method ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. fastening method ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. fastening method ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. ##-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +r- 22.5° on vertical mounting surface. ##-180° rotation possible on vertical mounting surface. ##-180° rotation pos | | |
| contact rating of auxiliary contacts according to UL Sind-circuit protection of the auxiliary circuit up to 230 V design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link for short-circuit protection of the auxiliary switch required linealization/mounting/dimensions mounting position #/180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward have backward by 4/+ 22.5" on vertical mounting surface; can be tilted forward and backward by 4/+ 22.5" on vertical mounting s | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link for short-circuit protection of the auxiliary switch required Installation mounting dimensions mounting position #+/-180* rotation possible on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward and backward by +/-22.5* on vertical mounting surface; can be tilled forward | | 1000 / 0000 |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V gesign of the tuse link for short-circuit protection of the auxiliary switch required mounting design of the use link for short-circuit protection of the auxiliary switch required mounting position | | A600 / Q600 |
| of the auxiliary circuit up to 230 V design of the fuse link for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions ##-180" rotation possible on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting surface; can be titled forward and backward by #-2.2.5" on mounting surface; can be titled forward and backward by #-2.2.5" on vertical mounting sur | | |
| switch required mounting position fastening method height because the state of th | of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA |
| mounting position #-/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on vertical mounting surface; can be tilted forward and backward by #-2.2.5" on well included. ### ### ### ### ### ### ### ### ### # | | gG: 10 A (690 V, 1 kA) |
| mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on vertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on wertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on wertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on wertical mounting surface; can be tilted forward and backward by 4"-2" 2.5" on million surface; can be tilted forward and backward by 4"-2" 5".5 mm ### A mm ### | · | |
| fastening method screw and snap-on mounting onto 35 mm DIN rail height 57.5 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm — forgrounded parts — forwards 10 mm • for grounded parts — to make the side 6 mm — downwards 10 mm • for live parts — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — to make the side 6 mm — downwards 10 mm • for live parts — solid or stranded 6 mm — at the side 6 mm — downwards 10 mm • for live parts — live parts — solid or stranded 7 mm lails y contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts steps of connectable for auxiliary contacts Safety related data product function • positively driven operation according to IEC 60947-5-1 4 yes suitability for use safety-related switching OFF ves service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 according to ST mm on vertical mounting onto 35 mm DIN rail screw and snap-on mounting onto 35 mm DIN rail promotion of other minus 10 mm 10 mm 10 mm 22.6 "" or mm 23.7 "" or mm 24.7 "" or mm 25.8 "" or mm 26.8 "" or mm 27.8 "" or mm 28.8 "" or mm 29.8 "" or mm 29.9 "" or mm 29. | | 1/100° retation possible on vertical magnetics and a surface to the district of the district o |
| fastening method height f7.5 mm width depth 73 mm required spacing with side-by-side mounting — forwards — upwards — at the side — for grounded parts — forwards — upwards — at the side — for wards — at the side — downwards — at the side — for in wards — at the side — downwards — at the side — downwards — to mm — at the side — downwards — to mm — to | mounting position | |
| Neight width | fastening method | · |
| width depth 73 mm required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - at the side - forwards - upwards - to mm - at the side - forwards - upwards - upwards - upwards - to mm - at the side - downwards - to mm - at the side - downwards - forwards - to mm - at the side - forwards - upwards - to mm - at the side - forwards - upwards - at the side - forwards - upwards - to mm - at the side - formands - at the side - forwards - to mm - at the side - forwards - to mm - at the side - forwards - to mm - at the side - forwards - to mm - to mm - at the side - forwards - to mm - to mm - to mm - to mm - to mw - t | | |
| required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm — at the side • for grounded parts — forwards — upwards — 10 mm — upwards — 10 mm — upwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm — at the side • for gounded parts — forwards — 10 mm • for live parts — forwards — 10 mm — the side — downwards — 10 mm — the side — forwards — the side — formections/ Terminals Type of connectable conductor cross-sections • for auxiliary contacts — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.51.5 mm²), 2x (0.752.5 mm²), 2x 4 mm² — x (2015 mm²), 2x (0.752.5 mm²), 2x 4 mm² — x (2015 mm²), 2x (0.752.5 mm²) • y control or stranded product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively firen operation according to IEC 60947-5-1 • suitablity for use safety-related switching OFF yes service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — to five parts — for live parts — forwards — upwards — to five parts — forwards — upwards — to mm — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — forwards — side — for side of the side — to mm — t | | |
| with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — forwards — upwards — forwards — upwards — the side — 6 mm — downwards — for live parts — forwards — for live parts — forwards — forwards — for mm — downwards — for mm — downwards — downwards — downwards — at the side — 6 mm — connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections — for auxiliary contacts — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² — finely stranded with core end processing — for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function — positively driven operation according to IEC 60947-5-1 — suitablity for use safety-related switching OFF — suitablity for use safety-related switching OFF — service life maximum — yos with low demand rate according to SN 31920 40 % | · | |
| forwards upwards downwards downwards at the side for grounded parts forwards upwards upwards upwards upwards at the side downwards at the side downwards to five parts forwards for live parts forwards upwards downwards upwards downwards upwards upwards downwards upwards downwards at the side formards at the side formards for auxiliary contacts solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts positive parts positive parts positive parts solid or stranded with core end processing for AWG cables for auxiliary contacts positive parts positive parts positive parts data product function positive parts data product function positive parts data seafety-related switching OFF yes service life maximum positive parts data seafety-related switching OFF yes service life maximum positive parts and coording to SN 31920 40 % | · · · · · · · · · · · · · · · · · · · | |
| - upwards - downwards - at the side of orgonated parts - forwards - upwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards - to live parts - for live parts - forwards - upwards - downwards - upwards - downwards - upwards - downwards - upwards - downwards - to mm - at the side - to mm - at the side - to mm - at the side - to mm - | , | 10 mm |
| - downwards - at the side • for grounded parts - forwards - upwards - at the side • for mm - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - upwards - downwards - at the side - forwards - at the side - forwards - at the side - formatics - for auxiliary contact or cross-sections - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function - positively driven operation according to IEC 60947-5-1 - suitable for safety function - suitablify for use safety-related switching OFF - yes - suitable for safety function - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - downwards - for mm - formatics - formati | | |
| - at the side | · | |
| • for grounded parts — forwards — upwards — at the side — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm — upwards 10 mm — upwards — upwards — forwards — upwards — to mm — upwards — to mm — upwards — the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operated switching OFF suitable for safety function • yes suitable for safety function Pyes suitable for safety function | | |
| - forwards 10 mm - upwards 6 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - 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 type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 Yes • suitablify for use safety function Yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | O IIIIII |
| - upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts - positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • suitablifty for use safety-related switching OFF service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | 10 mm |
| - at the side - downwards 10 mm • for live parts - forwards - upwards - downwards 10 mm - downwards 10 mm - at the side - downwards - at the side - for mm - downwards - at the side - for mm - at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitablifty for use safety-related switching OFF Yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| - downwards • for live parts - forwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitablity for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | · | |
| • for live parts forwards upwards upwards downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts solid or stranded finely stranded with core end processing • for AWG cables for auxiliary contacts Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitabli for use safety-related switching OFF service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 10 mm 10 | | |
| - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (20 1.5 mm²), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 Yes • suitable for safety function Yes suitability for use safety-related switching OFF Yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | 10 mm |
| - upwards - downwards - at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts product function • positively driven operation according to IEC 60947-5-1 • suitabllity for use safety-related switching OFF service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 10 mm 10 m | • | 40 |
| - downwards - at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| - at the side 6 mm Connections/ Terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitablility for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | · | |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | 6 mm |
| type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| for auxiliary contacts solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts Safety related data product function suitable for safety function suitablility for use safety-related switching OFF service life maximum with low demand rate according to SN 31920 40 % | <u>·</u> | screw-type terminals |
| — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 Safety related data product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures • with low demand rate according to SN 31920 40 % | • for auxiliary contacts | |
| for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Safety related data product function positively driven operation according to IEC 60947-5-1 yes suitable for safety function yes suitability for use safety-related switching OFF yes service life maximum 20 a proportion of dangerous failures with low demand rate according to SN 31920 40 % | — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| Product function | finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF yes service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 40 % | for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| 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 proportion of dangerous failures with low demand rate according to SN 31920 40 % | Safety related data | |
| ◆ suitable for safety function Yes suitability for use safety-related switching OFF Service life maximum proportion of dangerous failures ◆ with low demand rate according to SN 31920 40 % | product function | |
| suitability for use safety-related switching OFF service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 40 % | positively driven operation according to IEC 60947-5-1 | Yes |
| service life maximum proportion of dangerous failures • with low demand rate according to SN 31920 40 % | suitable for safety function | Yes |
| proportion of dangerous failures ● with low demand rate according to SN 31920 40 % | suitability for use safety-related switching OFF | Yes |
| • with low demand rate according to SN 31920 40 % | service life maximum | 20 a |
| • with low demand rate according to SN 31920 40 % | proportion of dangerous failures | |
| | | |
| | | 40 % |
| | with low demand rate according to SN 31920 | |

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| B10 value with high demand rate according to SN 31920 | 1 000 000; With 0.3 x le |
|---|--|
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| 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 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Approvals Certificates | |
| General Product Approval | |









<u>KC</u>



EMV Functional Saftey Test Certificates Maritime application



Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate





Maritime application other











Miscellaneous

other Railway Environment



Confirmation

Special Test Certificate



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RH2131-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-1AP00

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-1AP00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-1AP00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-1AP00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-1AP00&objecttype=14&gridview=view1

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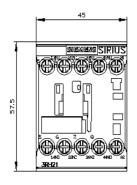
9/9/2025

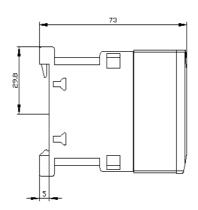
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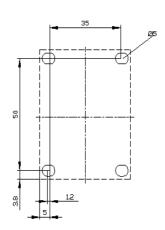
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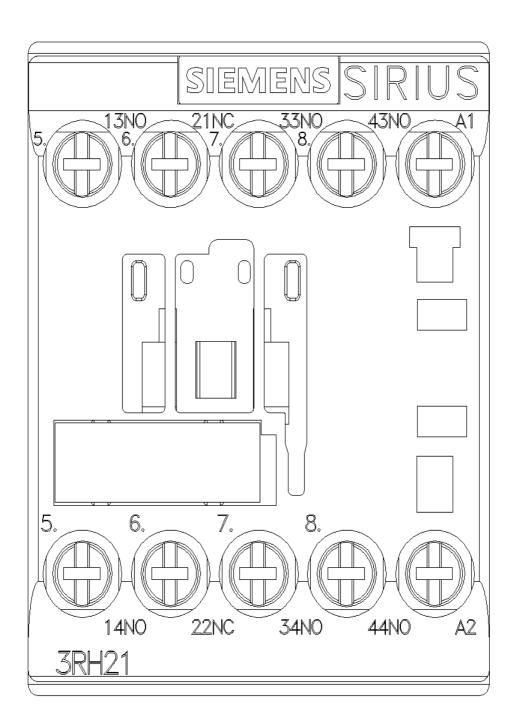






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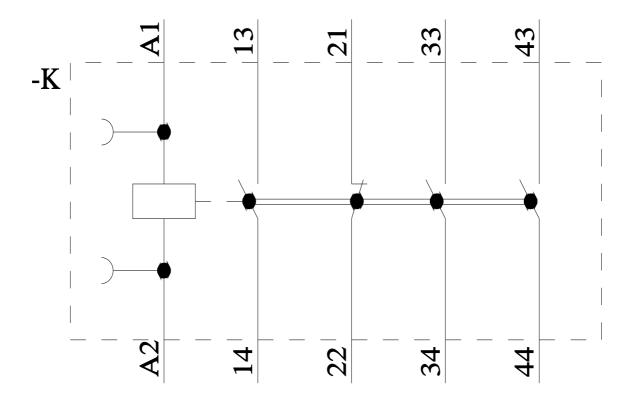
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