SIEMENS

Data sheet

3RV2021-4PA10



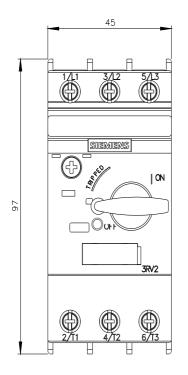
Circuit breaker size S0 for motor protection, CLASS 10 A-release 30...36 A N-release 432 A screw terminal Standard switching capacity

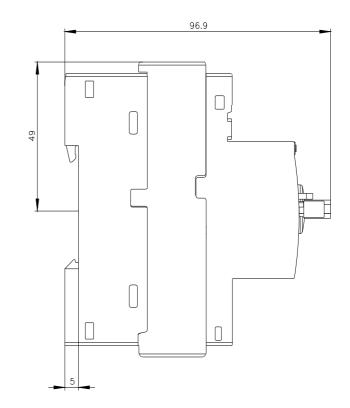
| product brand name | SIRIUS | | | |
|--|----------------------|--|--|--|
| product designation | Circuit breaker | | | |
| design of the product | For motor protection | | | |
| product type designation | 3RV2 | | | |
| General technical data | | | | |
| size of the circuit-breaker | S0 | | | |
| size of contactor can be combined company-specific | S00, S0 | | | |
| product extension auxiliary switch | Yes | | | |
| power loss [W] for rated value of the current | | | | |
| at AC in hot operating state | 16.25 W | | | |
| at AC in hot operating state per pole | 5.4 W | | | |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V | | | |
| surge voltage resistance rated value | 6 kV | | | |
| maximum permissible voltage for safe isolation in networks with grounded star point | | | | |
| between main and auxiliary circuit | 400 V | | | |
| between main and auxiliary circuit | 400 V | | | |
| shock resistance acc. to IEC 60068-2-27 | 25g / 11 ms | | | |
| mechanical service life (switching cycles) | | | | |
| of the main contacts typical | 100 000 | | | |
| of auxiliary contacts typical | 100 000 | | | |
| electrical endurance (switching cycles) typical | 100 000 | | | |
| type of protection according to ATEX directive 2014/34/EU | Ex II (2) GD | | | |
| certificate of suitability according to ATEX directive 2014/34/EU | DMT 02 ATEX F 001 | | | |
| reference code acc. to IEC 81346-2 | Q | | | |
| Substance Prohibitance (Date) | 01.10.2009 | | | |
| Ambient conditions | | | | |
| installation altitude at height above sea level maximum | 2 000 m | | | |
| ambient temperature | | | | |
| during operation | -20 +40 °C | | | |
| during storage | -50 +80 °C | | | |
| during transport | -50 +80 °C | | | |
| temperature compensation | -20 +60 °C | | | |
| relative humidity during operation | 10 95 % | | | |
| Main circuit | | | | |
| number of poles for main current circuit | 3 | | | |
| adjustable current response value current of the | 30 36 A | | | |

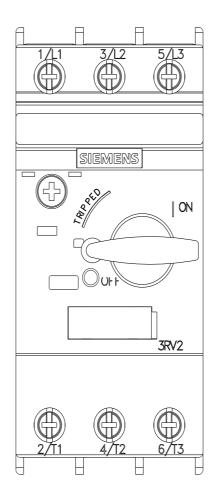
| current-dependent overload release | |
|--|--|
| operating voltage | |
| rated value | 690 V |
| rated value | 20 690 V |
| at AC-3 rated value maximum | 690 V |
| | 50 60 Hz |
| operating frequency rated value operational current rated value | 36 A |
| operational current at AC-3 at 400 V rated value | 36 A |
| · · · | 50 A |
| operating power at AC-3 • at 230 V rated value | 7.5 kW |
| at 200 V rated value at 400 V rated value | 18.5 kW |
| | |
| at 500 V rated value | 22 kW |
| at 690 V rated value | 30 kW |
| operating frequency at AC-3 maximum | 15 1/h |
| Auxiliary circuit | <u>^</u> |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| breaking capacity operating short-circuit current (lcs) at AC | |
| at 240 V rated value | 100 kA |
| at 400 V rated value | 10 kA |
| at 500 V rated value | 3 kA |
| • at 690 V rated value | 2 kA |
| breaking capacity maximum short-circuit current (Icu) | |
| at AC at 240 V rated value | 100 kA |
| at AC at 400 V rated value | 20 kA |
| at AC at 500 V rated value | 6 kA |
| at AC at 690 V rated value | 3 kA |
| response value current of instantaneous short-circuit trip unit | 432 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 36 A |
| at 600 V rated value | 36 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 3 hp |
| — at 230 V rated value | 5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 10 hp |
| — at 220/230 V rated value | 10 hp |
| — at 460/480 V rated value | 25 hp |
| Short-circuit protection | |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| design of the fuse link for IT network for short-circuit | magnoto |
| protection of the main circuit | |
| • at 400 V | gG 63 A |
| • at 500 V | gG 63 A |
| • at 690 V | gG 63 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail |
| v | |

| height Booking Scince (Controls) width 45 mm depth 97 mm required spacing 97 mm - downwards 30 mm - upwards 30 mm - downwards 30 mm - upwards 30 mm - downwards 70 mm - downwards 70 mm - downwards 70 mm - downards 0 m | | according to DIN EN 60715 |
|--|-------------------------------|--|
| wide 45 mm gepth 97 mm required spacing 97 mm • for grounded parts at 400 V 30 mm upwaids 30 mm upwaids 30 mm upwaids 30 mm | height | - |
| depth 97 mm required spacing 97 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm • of reights at 400 V 30 mm - downwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm • of regranded parts at 500 V 9 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm • of rgrounded parts at 600 V 70 mm - downwards 70 mm - upwards 70 mm - upwards 70 mm - backwards 0 mm - backwards 0 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm - downwards 0 mm - downwards 0 mm - forwards 0 mm - forwards 0 mm - forwards | | |
| required spacing • lor grounded spats at 400 V downwards 30 mm at the side 9 mm • of rile parts at 400 V 30 mm downwards 30 mm downwards 30 mm | | |
| | | |
| - downwards - at the side - upwards - at the side P mm • for live parts at 400 V - downwards - upwards - downwards 30 mm - upwards - upwards 30 mm - upwards - upwards 30 mm - upwards - upwards - downwards 30 mm - upwards - forwards - upwards - torwards - upwards - upwards - upwards - torwards - upwards - upwards - upwards - torwards - upwards - torwards - upwards - torwards - upwards - upwards - upward | | |
| | | 30 mm |
| | | |
| for live parts at 400 V downwards man and a standard of the safe man and a standard of the safe safe safe safe safe safe safe saf | • | |
| - downwards 30 mm - upwards 30 mm - or downwards 30 mm - or downwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - of live parts at 500 V - downwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm - for grounded parts at 500 V - downwards 30 mm - at the side 9 mm - for grounded parts at 500 V - downwards 30 mm - at the side 9 mm - downwards 70 mm - upwards 0 mm - at the side 30 mm - backwards 0 mm - backwards 0 mm - for vards 70 mm - upwards 70 mm - upwards 70 mm - upwards 0 mm - for wards 0 mm - for wards 0 mm - for live parts at 600 V - downwards 70 mm - upwards 70 mm - for an output for auxillary and control foruit - for an output for auxillary and control foruit - for main current foruit - for main current foruit - for main contacts - with high demand rate acc. to SN 31920 - with high demand rate acc. to SN 31920 - with how demand rate acc. to SN 31920 - with how demand rate acc. to SN 31920 - | | 5 mm |
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| • for grounded parts at 500 V | • | |
| - downwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 500 V 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 590 V - - downwards 70 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 590 V - - downwards 0 mm - backwards 0 mm - at the side 30 mm - backwards 0 mm - for live parts at 590 V - - downwards 70 mm - upwards 70 mm - backwards 0 mm - for live parts at 500 V - - downwards 70 mm - upwards 70 mm - backwards 0 mm - for live parts at 500 V - - downwards 0 mm - for main content stress 0 mm - for main contents 0 mm - for main contacts - - solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ²) - solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ² | | 5 mm |
| | | 30 mm |
| | | |
| • for live parts at 500 V | • | |
| - downwards 30 mm - upwards 30 mm - at the side 9 mm - downwards 70 mm - upwards 70 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - for live parts at 690 V 0 mm - for live parts at 690 V 0 mm - downwards 70 mm - upwards 70 mm - sockwards 0 mm - ornal current circuit screw-type terminals arrangement of electrical connectors for main current circuit screw-type terminals tor ma | | 5 mm |
| | | 30 mm |
| | | |
| • for grounded parts at 690 V downwards gowards | | |
| - downwards 70 mm - upwards 70 mm - backwards 70 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - downwards 70 mm - upwards 70 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm Connections/ Terminals 0 mm product component removable terminal for auxiliary No and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom tigute et min contacts - solid or stranded 2x (1 25 mm ³), 2x (25 10 mm ³) - at AWG cables for main contacts 2x (1 25 mm ³), 2x (25 10 mm ³) et AWG cables for main contacts 2x (1 25 mm ³), 2x (25 6 mm ³), 1x 10 mm ⁴ et WWG cables for main contacts 2x (1 25 mm ³), 2x (25 6 mm ³), 1x 10 mm ⁴ start of the connection screw 6 main contacts with screw-type terminals <td></td> <td></td> | | |
| | - . | 70 mm |
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| | | |
| forwards 0 mm • for live parts at 680 V 70 mm downwards 70 mm upwards 70 mm backwards 0 mm at the side 30 mm at the side 30 mm forwards 0 mm Connections/ Terminals 0 mm product component removable terminal for auxiliary and control circuit No • for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom // type of connectable conductor cross-sections • for main contacts • for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - ald/WG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 6 12), 2x (14 8) tightening torque • for main contacts 2x (1 6 12), 2x (14 8) • at AWG cables for main contacts 2 2.5 N·m design of the thread of the connection screw • for main contacts • for main contacts M4 Safety related data 5000 Stor with kigh demand rate acc. to SN 31920 < | | |
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| Certificates/ approval | 0 | | | | | |
| General Product Ap | | | | | | |
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| IECE× | KEX ATEX | CE EG-Konf. | <u>UK Declaration of</u> <u>Conformity</u> | Special Test Certific- ate | Type Test Certific- ates/Test Report | |
| Marine / Shipping | | | | | | |
| ABS | BUREAU VERITAS | | Llovd's Register uis | PRS | RINA | |
| Marine / Shipping | other | | Railway | | | |
| RMRS | <u>Confirmation</u> | | <u>Confirmation</u> | Vibration and Shock | | |
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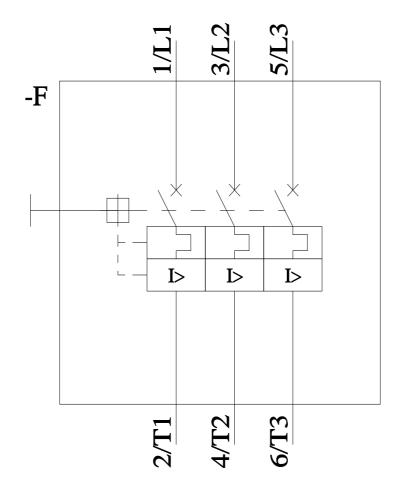






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