SIEMENS

Data sheet

3RV2011-1HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 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 | S00 |
| 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 | 9.25 W |
| at AC in hot operating state per pole | 3.1 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 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature during operation | -20 +60 °C |
| ambient temperature during storage | -50 +80 °C |
| ambient temperature 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 | 5.5 8 A |
| | |

| current-dependent overload release | |
|---|------------|
| operating voltage rated value | 690 V |
| operating voltage at AC-3 rated value maximum | 690 V |
| operating frequency rated value | 50 60 Hz |
| operational current rated value | 8 A |
| operational current at AC-3 at 400 V rated value | 8 A |
| operating power at AC-3 | |
| at 230 V rated value | 1 500 W |
| • at 400 V rated value | 3 000 W |
| • at 500 V rated value | 4 000 W |
| at 690 V rated value | 5 500 W |
| operating frequency at AC-3 maximum | 15 1/h |
| Auxiliary circuit | |
| | 0 |
| number of NC contacts for auxiliary contacts | |
| 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 (Ics) at AC | |
| • at 240 V rated value | 100 kA |
| at 400 V rated value | 100 kA |
| at 500 V rated value | 42 kA |
| at 690 V rated value | 4 kA |
| breaking capacity maximum short-circuit current (Icu) | |
| at AC at 240 V rated value | 100 kA |
| at AC at 400 V rated value | 100 kA |
| at AC at 500 V rated value | 42 kA |
| at AC at 690 V rated value | 6 kA |
| response value current of instantaneous short-circuit trip unit | 104 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 8 A |
| at 600 V rated value | 8 A |
| | 07 |
| yielded mechanical performance [hp] • for single-phase AC motor | |
| at 110/120 V rated value | 0.333 hn |
| | 0.333 hp |
| — at 230 V rated value | 1 hp |
| for 3-phase AC motor at 200/208 V reted value | 2 hz |
| - at 200/208 V rated value | 2 hp |
| - at 220/230 V rated value | 2 hp |
| - at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 5 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 protection of the main circuit | |
| • at 400 V | gL/gG 50 A |
| • at 500 V | gL/gG 40 A |
| • at 690 V | gL/gG 35 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| ······ | |

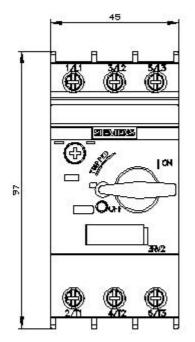
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 | | |
|---|--|--|--|
| height | 97 mm | | |
| width | 45 mm | | |
| depth | 97 mm | | |
| required spacing | | | |
| for grounded parts at 400 V | | | |
| — downwards | 30 mm | | |
| — upwards | 30 mm | | |
| — at the side | 9 mm | | |
| for live parts at 400 V | | | |
| — downwards | 30 mm | | |
| — upwards | | | |
| — at the side | 30 mm | | |
| | 9 mm | | |
| for grounded parts at 500 V | | | |
| — downwards | 30 mm | | |
| — upwards | 30 mm | | |
| — at the side | 9 mm | | |
| for live parts at 500 V | | | |
| — downwards | 30 mm | | |
| — upwards | 30 mm | | |
| — at the side | 9 mm | | |
| for grounded parts at 690 V | | | |
| — downwards | 50 mm | | |
| — upwards | 50 mm | | |
| — backwards | 0 mm | | |
| — at the side | 30 mm | | |
| — forwards | 0 mm | | |
| for live parts at 690 V | | | |
| — downwards | 50 mm | | |
| — upwards | 50 mm | | |
| — backwards | 0 mm | | |
| — at the side | 30 mm | | |
| — forwards | 0 mm | | |
| Connections/ Terminals | 0 mm | | |
| product function removable terminal for auxiliary and | No | | |
| control circuit | | | |
| type of electrical connection | | | |
| 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 | | | |
| — solid or stranded | 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) | | |
| at AWG cables for main contacts | 2x (18 14), 2x 12 | | |
| tightening torque for main contacts with screw-type terminals | 0.8 1.2 N·m | | |
| design of screwdriver shaft | Diameter 5 to 6 mm | | |
| size of the screwdriver tip | Pozidriv 2 | | |
| design of the thread of the connection screw | | | |
| for main contacts | M3 | | |
| Safety related data | | | |
| B10 value | | | |
| with high demand rate acc. to SN 31920 | 5 000 | | |
| proportion of dangerous failures | | | |
| with low demand rate acc. to SN 31920 | 50 % | | |
| | 50 % | | |
| with high demand rate acc. to SN 31920 failure rate [EIT] | 50 /0 | | |
| failure rate [FIT] | | | |

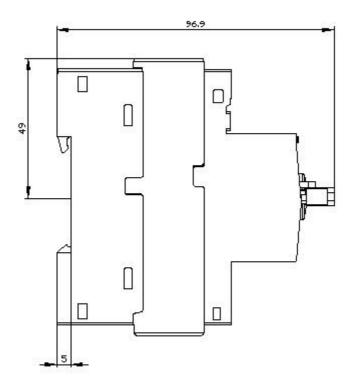
| with low dema | and rate acc. to SN 319 | 20 50 F | IT | | | | |
|---|---|----------------------|---|---|--------------------------------------|--|--|
| | test interval or servic | | | | | | |
| protection class IP on the front acc. to IEC 60529 | | EC 60529 IP20 | | | | | |
| • | touch protection on the front acc. to IEC 60529 | | er-safe, for vertical conta | act from the front | | | |
| display version for switching status | | | Handle | | | | |
| Certificates/ approva | - | | | | | | |
| General Product A | | | | | For use in hazardous locations | | |
| | | | <u>KC</u> | EAC | ATEX | | |
| For use in hazardous locations | Declaration of Co | nformity | Test Certificates | | Marine / Shipping | | |
| IECEx | C C EG-Konf. | <u>Miscellaneous</u> | <u>Special Test</u> <u>Certificate</u> | <u>Type Test</u> <u>Certificates/Test</u> <u>Report</u> | ABS | | |
| Marine / Shipping | | | | | | | |
| BUREAU VERITAS | Hoyd's Register uts | PRS | RINA | RMRS | DNV-GL | | |
| other | | Railway | | | | | |
| Confirmation | VDE | Vibration and Shock | <u>Confirmation</u> | | | | |
| 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=3RV2011-1HA10 Cax online generator | | | | | | | |
| http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1HA10 | | | | | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA10</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | | | | | | | |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1HA10⟨=en | | | | | | | |

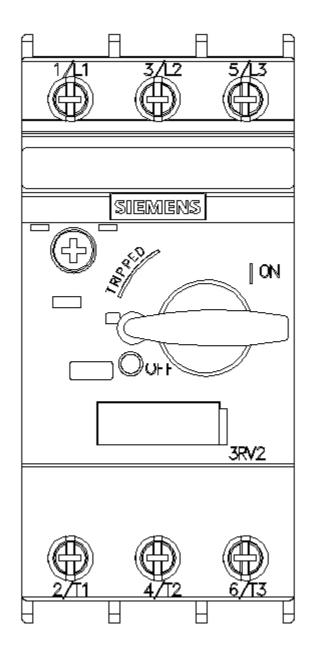
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA10/char

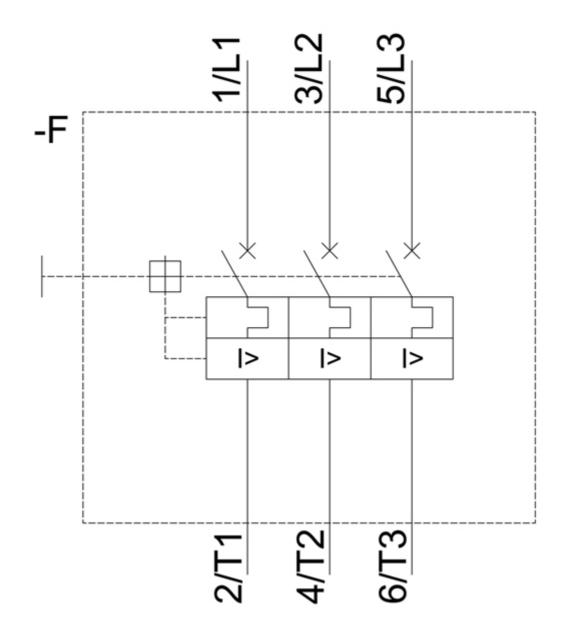
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1HA10&objecttype=14&gridview=view1









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