SIEMENS

Data sheet

3RV2011-0FA10



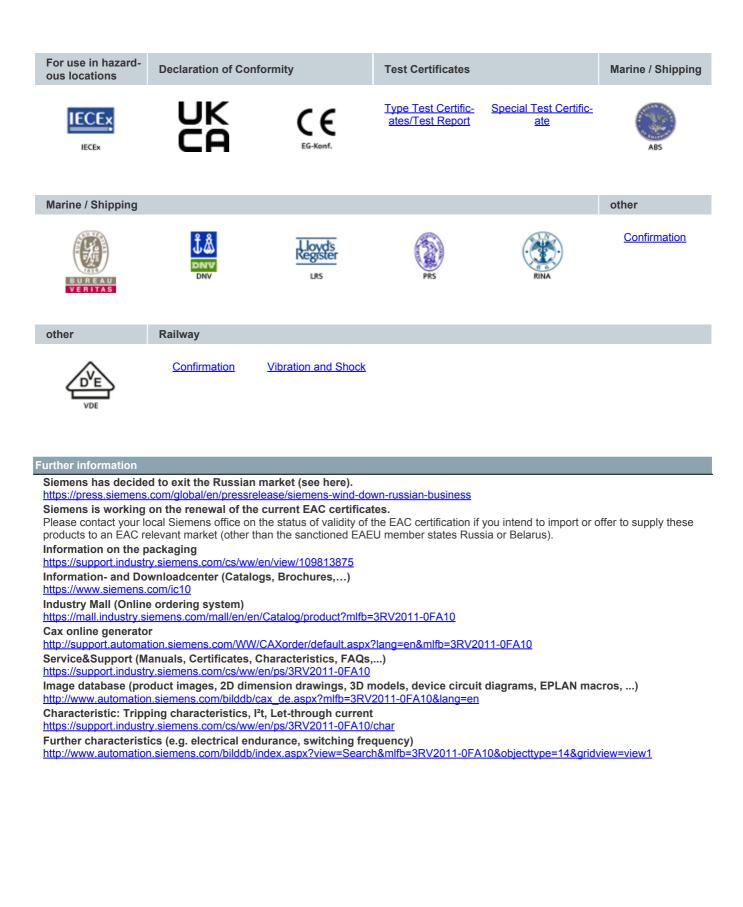
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 A screw terminal Standard switching capacity

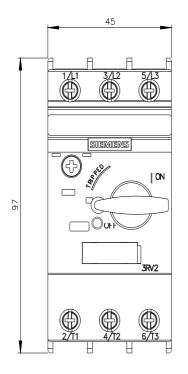
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|---|----------------------|
| product brand name | SIRIUS |
| product designation | Circuit breaker |
| design of the product | For motor protection |
| product type designation | 3RV2 |
| General technical data | |
| size of the circuit-breaker | 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 | 5.5 W |
| at AC in hot operating state per pole | 1.8 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 25g / 11 ms |
| mechanical service life (operating cycles) | |
| of the main contacts typical | 100 000 |
| of auxiliary contacts typical | 100 000 |
| electrical endurance (operating 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 according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2009 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -20 +60 °C |
| during storage | -50 +80 °C |
| during transport | -50 +80 °C |
| relative humidity during operation | 10 95 % |
| Main circuit | |
| number of poles for main current circuit | 3 |
| adjustable current response value current of the | 0.35 0.5 A |
| current-dependent overload release | |
| operating voltage | 20 200 1/ |
| rated value | 20 690 V |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operating frequency rated value | 50 60 Hz |
| operational current rated value | 0.5 A |

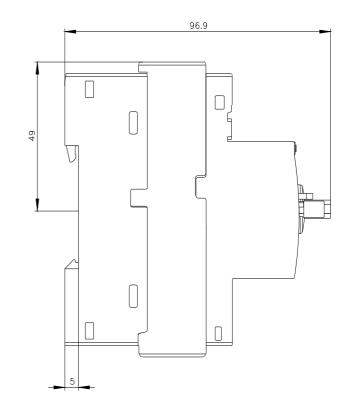
| operational current | |
|---|--|
| • at AC-3 at 400 V rated value | 0.5 A |
| • at AC-3e at 400 V rated value | 0.5 A |
| operating power | |
| • at AC-3 | 0.4194 |
| — at 230 V rated value | 0.1 kW |
| — at 400 V rated value | 0.12 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.2 kW |
| • at AC-3e | 0.4 1994 |
| — at 230 V rated value | 0.1 kW |
| — at 400 V rated value | 0.12 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.2 kW |
| operating frequency at AC-3 maximum | 15 1/h |
| • at AC-3e maximum | 15 1/h |
| | 15 1/11 |
| Auxiliary circuit | |
| 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 |
| maximum short-circuit current breaking capacity (lcu) | |
| 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 | 100 kA |
| at AC at 690 V rated value | 100 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| at 240 V rated value | 100 kA |
| at 400 V rated value | 100 kA |
| at 500 V rated value | 100 kA |
| at 690 V rated value | 100 kA |
| response value current of instantaneous short-circuit trip | 6.5 A |
| unit | |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 0.5 A |
| at 600 V rated value | 0.5 A |
| 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 690 V | gL/gG 4 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 97 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| with side-by-side mounting at the side | 0 mm |
| for grounded parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| | 9 mm |
| — at the side | 9 11111 |

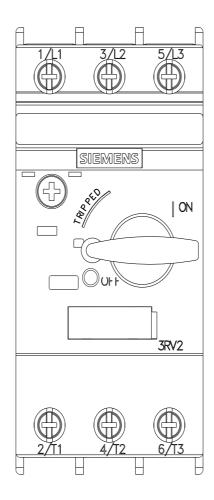
| Certificates/ approvals General Product Approval | | For use in hazard- ous locations |
|---|---|-------------------------------------|
| Certificates/ approvals | | For use in h |
| | | |
| display version for switching status | Handle | |
| 60529 touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front | |
| IEC 61508 protection class IP on the front according to IEC | IP20 | |
| with low demand rate according to SN 31920 T1 value for proof test interval or service life according to | 50 FIT 10 a | |
| failure rate [FIT] | | |
| with high demand rate according to SN 31920 | 50 % | |
| proportion of dangerous failures with low demand rate according to SN 31920 | 50 % | |
| with high demand rate according to SN 31920 properties | 5 000 | |
| B10 value | | |
| Safety related data | | |
| for main contacts | МЗ | |
| size of the screwdriver tip design of the thread of the connection screw | Pozidriv size 2 | |
| design of screwdriver shaft | Diameter 5 to 6 mm | |
| • for main contacts with screw-type terminals | 0.8 1.2 N·m | |
| tightening torque | | |
| at AWG cables for main contacts | 2x (0.5 1.5 min), 2x (0.75 2.5 min) 2x (18 14), 2x 12 | |
| — solid of stranded — finely stranded with core end processing | 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | |
| for main contacts — solid or stranded | 2x (0,75 2,5 mm²), 2x 4 mm² | |
| type of connectable conductor cross-sections | | |
| circuit | | |
| for main current circuit arrangement of electrical connectors for main current | screw-type terminals Top and bottom | |
| type of electrical connection | | |
| Connections/ Terminals | | |
| — forwards | 0 mm | |
| — at the side | 30 mm | |
| — upwards — backwards | 0 mm | |
| — downwards — upwards | 50 mm 50 mm | |
| for live parts at 690 V | 50 mm | |
| — forwards | 0 mm | |
| — at the side | 30 mm | |
| — backwards | 0 mm | |
| — downwards — upwards | 50 mm | |
| for grounded parts at 690 V — downwards | 50 mm | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| — downwards | 30 mm | |
| • for live parts at 500 V | | |
| — upwards — at the side | 9 mm | |
| — downwards — upwards | 30 mm 30 mm | |
| for grounded parts at 500 V | 22 | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| - downwards | 30 mm | |
| for live parts at 400 V | | |

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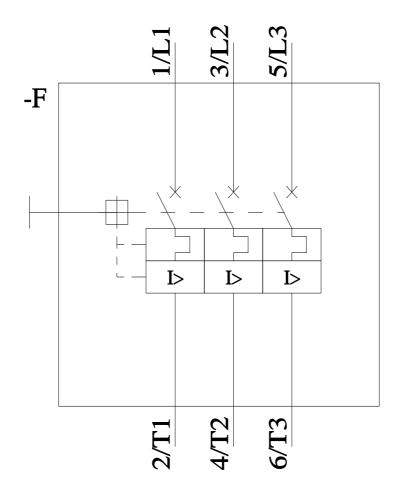






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