SIEMENS

Data sheet 3RV2111-0BA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.14...0.2A, N-RELEASE2.6A, SCREW CONNECTION, STANDARD SW. CAPACITY

| product brandname | SIRIUS |
|--------------------------|---|
| Product designation | Circuit breaker |
| Design of the product | For motor protection with overload relay function |
| 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] total typical | 5 W |
| Insulation voltage with degree of pollution 3 rated | 690 V |
| value | |
| Surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| in networks with grounded star point between | 400 V |
| main and auxiliary circuit | |
| in networks with grounded star point between | 400 V |
| main and auxiliary circuit | |
| Protection class IP | |

| • on the front | IP20 |
|--|-------------------|
| of the terminal | IP20 |
| 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 | Increased safety |
| Protection against electrical shock | finger-safe |
| Equipment marking acc. to DIN EN 81346-2 | Q |
| | |
| Ambient conditions | |
| Ambient temperature | -20 +60 °C |
| during operation | |
| during storage | -50 +80 °C |
| • during transport | -50 +80 °C |
| Temperature compensation | -20 +60 °C |
| Main circuit | |
| Number of poles for main current circuit | 3 |
| Adjustable pick-up value current of the current- | 0.14 0.2 A |
| dependent overload release | |
| Operating voltage | 690 V |
| • rated value | |
| at AC-3 rated value maximum | 690 V |
| Operating requests rated value | 50 60 Hz 0.2 A |
| Operating current | 0.2 A |
| Operating current | |
| at AC-3 — at 400 V rated value | 0.2 A |
| — at 400 V rated value Operating power | 0.271 |
| • at AC-3 | |
| | 30 W |
| — at 230 V rated value | 60 W |
| — at 400 V rated value | 60 W |
| — at 500 V rated value | |
| — at 690 V rated value | 90 W |
| Operating frequency | 4F 4/b |
| • at AC-3 maximum | 15 1/h |

| Auxiliary circuit | |
|--|-----------|
| Design of the auxiliary switch | laterally |
| Number of NC contacts | |
| for auxiliary contacts | 0 |
| Number of NO contacts | |

| for auxiliary contacts | 0 |
|---|-------------|
| Number of CO contacts | |
| for auxiliary contacts | 0 |
| Operating current of auxiliary contacts at AC-15 | |
| ● at 24 V | 1.5 A |
| ● at 230 V | 1.5 A |
| Operating current of auxiliary contacts at DC-13 | |
| • at 24 V | 1 A |
| Protective and monitoring functions | |
| Product function | |
| Ground fault detection | No |
| Phase failure detection | Yes |
| Trip class | CLASS 10 |
| Design of the overload release | thermal |
| Operational 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 |
| Maximum short-circuit current breaking capacity (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 | 100 kA |
| ● at AC at 690 V rated value | 100 kA |
| Breaking capacity short-circuit current (Icn) | |
| • at 1 current path at DC at 150 V rated value | 10 kA |
| with 2 current paths in series at DC at 300 V rated value | 10 kA |
| with 3 current paths in series at DC at 450 V rated value | 10 kA |
| UL/CSA ratings | |
| Full-load current (FLA) for three-phase AC motor | |
| • at 480 V rated value | 0.2 A |
| • at 600 V rated value | 0.2 A |
| Contact rating of auxiliary contacts according to UL | C600 / R300 |
| Short-circuit protection | |
| Product function Short circuit protection | Yes |
| Design of the short-circuit trip | magnetic |
| Design of the fuse link | |
| | |

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 6 A, quick: 10 A

| Mounting position | any |
|--|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Height | 97 mm |
| Width | 65 mm |
| Depth | 96 mm |
| Required spacing | |
| with side-by-side mounting | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 50 mm |
| — downwards | 50 mm |
| — at the side | 0 mm |
| • for grounded parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 50 mm |
| — at the side | 30 mm |
| — downwards | 50 mm |
| • for live parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 50 mm |
| — downwards | 50 mm |
| — at the side | 30 mm |

| Connections/Terminals | |
|--|-------------------------------------|
| Product function | |
| removable terminal for auxiliary and control circuit | No |
| Type of electrical connection | |
| • for main current circuit | screw-type terminals |
| for auxiliary and control 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 | |
| single or multi-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 conductors for main contacts | 2x (18 14), 2x 12 |

| Type of connectable conductor cross-sections | |
|---|-------------------------------------|
| for auxiliary contacts | |
| single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG conductors for auxiliary contacts | 2x (20 16), 2x (18 14) |
| Tightening torque | |
| for main contacts with screw-type terminals | 0.8 1.2 N·m |
| • for auxiliary contacts with screw-type terminals | 0.8 1.2 N·m |
| Design of screwdriver shaft | Diameter 5 to 6 mm |

| 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 % |
| with high demand rate acc. to SN 31920 | 50 % |
| Failure rate [FIT] | |
| with low demand rate acc. to SN 31920 | 50 FIT |
| T1 value for proof test interval or service life acc. to IEC 61508 | 10 y |
| Display version | |
| • for switching status | Handle |

Certificates/approvals

General Product Approval

Declaration of Conformity







KC





Test Certificates

Shipping Approval

Type Test
Certificates/Test
Report

Special Test Certificate









Shipping Approval

other





Environmental Confirmations

Confirmation



Miscellaneous

Railway

Vibration and Shock

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2111-0BA10

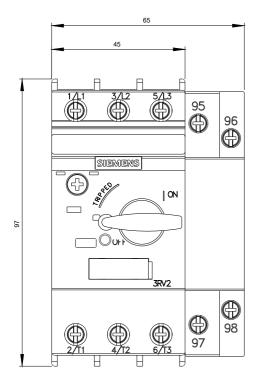
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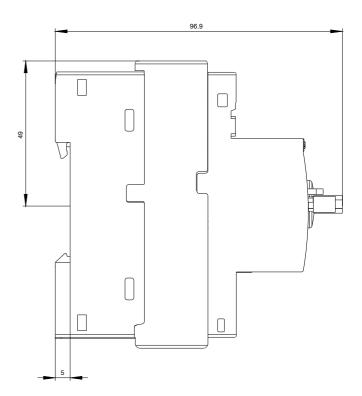
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-0BA10

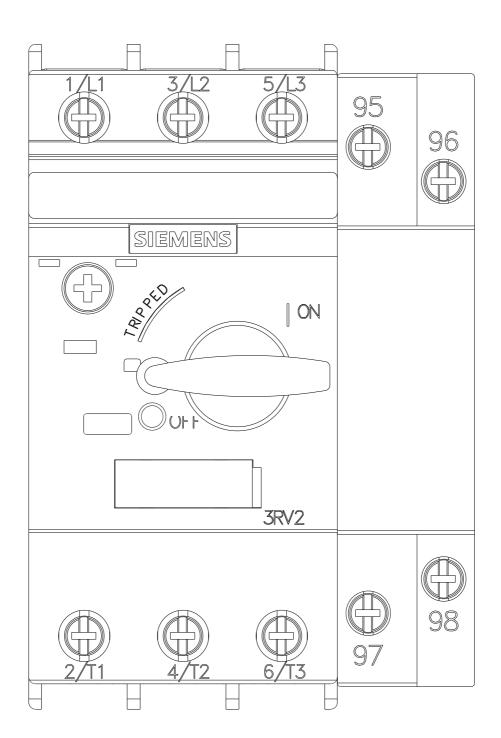
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

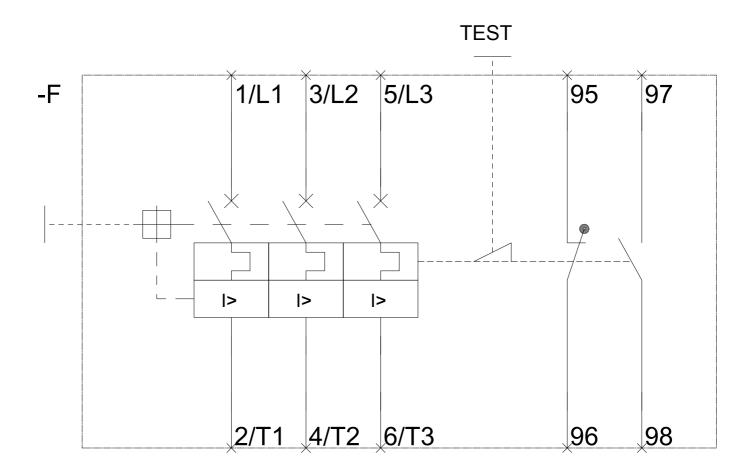
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0BA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-0BA10&lang=en









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