SIEMENS

Data sheet 3RV2011-1CA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 1.8...2.5A, N-RELEASE 33A SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC

| product brand name | SIRIUS |
|--|----------------------|
| Product designation | 3RV2 circuit breaker |
| General technical data: | |
| Size of the circuit-breaker | S00 |
| Size of contactor can be combined company-specific | S00, S0 |

| 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 | Increased safety |
| Certificate of suitability relating to ATEX | on request |
| Protection against electrical shock | finger-safe |
| Equipment marking acc. to DIN EN 81346-2 | Q |
| 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 |
| Temperature compensation | -20 +60 °C |
| Relative humidity during operation | 10 95 % |
| Main circuit: | |
| Number of poles for main current circuit | 3 |
| Adjustable pick-up value current of the current- | 1.8 2.5 A |
| dependent overload release | |
| Operating voltage | |
| • rated value | 690 V |
| • at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 60 Hz |
| Operating current rated value | 2.5 A |
| Operating current | |
| • at AC-3 | |
| — at 400 V rated value | 2.5 A |
| Operating power | |
| • at AC-3 | |
| — at 230 V rated value | 370 W |
| — at 400 V rated value | 750 W |
| — at 500 V rated value | 1 100 W |
| — at 690 V rated value | 1 500 W |
| Operating frequency | |
| • at AC-3 maximum | 15 1/h |
| Auxiliary circuit: | |

| A 5 A 5 A 6 A 15 A ass 10 ermal |
|---|
| 5 A 5 A 5 A 4 15 A |
| 5 A 5 A A 15 A ass 10 |
| 5 A A 15 A ass 10 |
| A 15 A ass 10 |
| ass 10 |
| ass 10 |
| ass 10 |
| |
| |
| |
| |
| |
| |
| 0 kA |
| 0 kA |
| 0 kA |
| kA |
| |
| 0 kA |
| 0 kA |
| 0 kA |
| kA |
| |
| kA |
| kA |
| kA |
| |
| |
| 5 A |
| 5 A |
| |
| |
| 167 hp |
| |

| • for three-phase AC motor | |
|--|-------------|
| — at 200/208 V rated value | 0.5 hp |
| — at 220/230 V rated value | 0.5 hp |
| — at 460/480 V rated value | 1 hp |
| — at 575/600 V rated value | 1.5 hp |
| Contact rating of auxiliary contacts according to UL | C300 / R300 |

| Short-circuit protection | | |
|---|--|--|
| Design of the short-circuit trip | magnetic | |
| Design of the fuse link | | |
| for short-circuit protection of the auxiliary switch required | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) | |
| Design of the fuse link for IT network for short-circuit protection of the main circuit | | |
| ● at 400 V | gL/gG 25 A | |
| ● at 500 V | gL/gG 25 A | |
| ● at 690 V | gL/gG 20 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 | 45 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 |

| Connections/Torminals: | |
|--|-------------------------------------|
| 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 | Top and bottom |
| circuit | |
| 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 |
| Design of the thread of the connection screw | |
| • for main contacts | M3 |
| of the auxiliary and control contacts | M3 |
| Safety related data: | |
| B10 value | |
| • with high demand rate acc. to SN 31920 | 50 000 |
| Proportion of dangerous failures | |
| with low demand rate acc. to SN 31920 | 40 % |
| with high demand rate acc. to SN 31920 | 40 % |
| 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 |
| Cartificates langravals | |
| Certificates/approvals | |

3RV2011-1CA15

General Product Approval

For use in hazardous locations







KTL





| For use in | Declaration of | Test Certificates | Shipping Approval |
|------------|----------------|-------------------|-------------------|
| hazardous | Conformity | | |
| locations | | | |





Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge n





Shipping Approval





GL









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Umweltbestätigung

Bestätigungen



Schwingen/Schocke

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=3RV20111CA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20111CA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV20111CA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20111CA15&lang=en



