

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.55...0.8A, N-RELEASE10A, SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC



| | |
|-----------------------|----------------------|
| product brand name | SIRIUS |
| Product designation | 3RV2 circuit breaker |
| Design of the product | For motor protection |

| 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 | 6 W |
| Insulation voltage with degree of pollution 3 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 |
| • in networks with grounded star point between main and auxiliary circuit | 400 V |
| Protection class IP | |
| • on the front | IP20 |

| | |
|--|------------------|
| • of the terminal | IP20 |
| 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-dependent overload release | 0.55 ... 0.8 A |
| 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 | 0.8 A |
| Operating current | |
| • at AC-3 | |
| — at 400 V rated value | 0.8 A |
| Operating power | |
| • at AC-3 | |
| — at 230 V rated value | 120 W |
| — at 400 V rated value | 180 W |
| — at 500 V rated value | 250 W |
| — at 690 V rated value | 370 W |
| Operating frequency | |
| • at AC-3 maximum | 15 1/h |

| Auxiliary circuit | |
|---|------------|
| Design of the auxiliary switch | transverse |
| Number of NC contacts | |
| • for auxiliary contacts | 1 |
| Number of NO contacts | |
| • for auxiliary contacts | 1 |
| Number of CO contacts | |
| • for auxiliary contacts | 0 |
| Operating current of auxiliary contacts at AC-15 | |
| • at 24 V | 2 A |
| • at 120 V | 0.5 A |
| • at 125 V | 0.5 A |
| • at 230 V | 0.5 A |
| Operating current of auxiliary contacts at DC-13 | |
| • at 24 V | 1 A |
| • at 60 V | 0.15 A |

| Protective and monitoring functions | |
|--|----------|
| 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 | 0.8 A |
| • at 600 V rated value | 0.8 A |
| 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 | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A) |
| <ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required | |
| Design of the fuse link for IT network for short-circuit protection of the main circuit | gL/gG 6 A |
| <ul style="list-style-type: none"> at 690 V | |

| Installation/ mounting/ dimensions | | |
|--|--|-------|
| 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 | | |
| <ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> forwards Backwards upwards downwards at the side | | |
| <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards Backwards upwards at the side downwards | | |
| <ul style="list-style-type: none"> for live parts <ul style="list-style-type: none"> forwards Backwards upwards downwards at the side | | |
| | | 0 mm |
| | | 0 mm |
| | | 50 mm |
| | | 50 mm |
| | | 0 mm |
| | | 0 mm |
| | | 0 mm |
| | | 50 mm |
| | | 30 mm |
| | | 50 mm |
| | | 0 mm |
| | 0 mm | |
| | 50 mm | |
| | 50 mm | |
| | 30 mm | |

| Connections/Terminals | |
|---|----------------------|
| Product function | No |
| <ul style="list-style-type: none"> removable terminal for auxiliary and control circuit | |
| Type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit | |

| | |
|--|---|
| Arrangement of electrical connectors for main current circuit | Top and bottom |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts | <p>2x (0,75 ... 2,5 mm²), 2x 4 mm²</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (18 ... 14), 2x 12</p> |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts | <p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14)</p> |
| Tightening torque | |
| <ul style="list-style-type: none"> • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals | <p>0.8 ... 1.2 N·m</p> <p>0.8 ... 1.2 N·m</p> |
| Design of screwdriver shaft | Diameter 5 to 6 mm |
| Design of the thread of the connection screw | |
| <ul style="list-style-type: none"> • for main contacts • of the auxiliary and control contacts | <p>M3</p> <p>M3</p> |

Safety related data

| | |
|---|-------------------------|
| B10 value | |
| <ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 | 5 000 |
| Proportion of dangerous failures | |
| <ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 | <p>50 %</p> <p>50 %</p> |
| Failure rate [FIT] | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • for switching status | Handle |

Certificates/approvals

| | |
|--------------------------|--------------------------------|
| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|



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



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| | |
|-------------------|-------|
| Shipping Approval | other |
|-------------------|-------|



[Bestätigungen](#)

[Umweltbestätigung](#)

| | |
|-------|---------|
| other | Railway |
|-------|---------|



[Schwingen/Schocke](#)
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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=3RV2011-0HA15>

Cax online generator

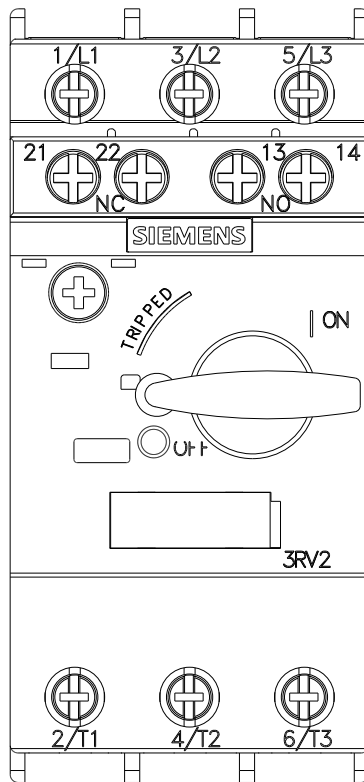
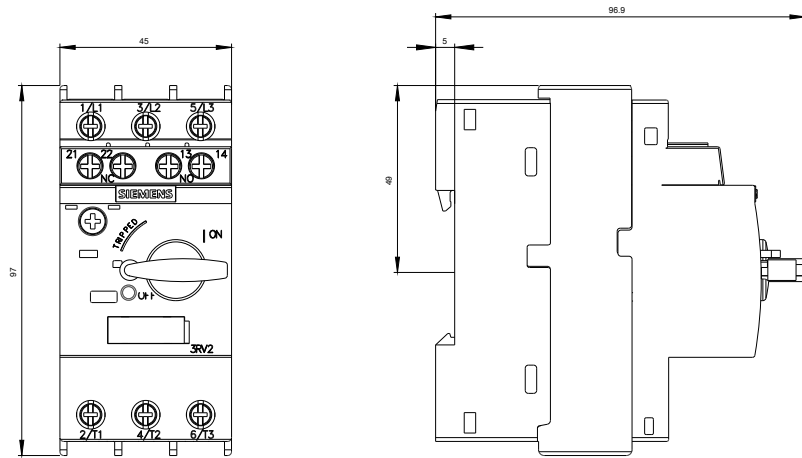
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA15>

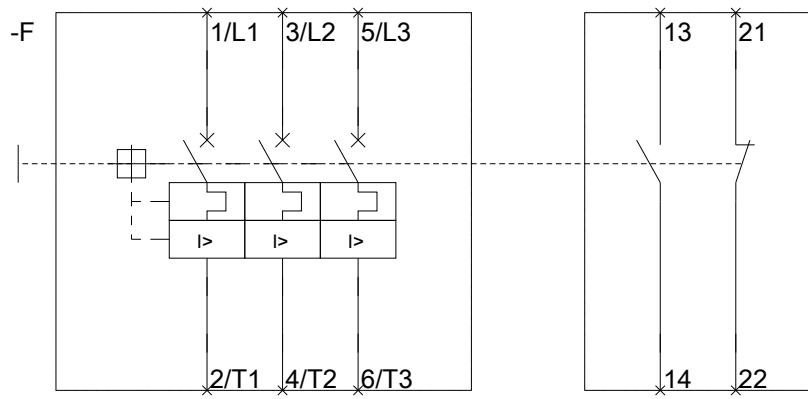
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA15>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0HA15&lang=en





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