



CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 0.8A, N-RELEASE 10 A, SCREW CONNECTION, STANDARD SW. CAPACITY

| | | |
|---------------------|--|----------------------|
| product brand name | | SIRIUS |
| Product designation | | 3RV2 circuit breaker |

General technical data:

| | | |
|--|----|-------------|
| Active power loss total typical | W | 6 |
| Insulation voltage | V | 690 |
| <ul style="list-style-type: none"> with degree of pollution 3 Rated value | | |
| Shock resistance | | 25g / 11 ms |
| <ul style="list-style-type: none"> acc. to IEC 60068-2-27 | | |
| Surge voltage resistance Rated value | kV | 6 |
| Mechanical service life (switching cycles) | | |
| <ul style="list-style-type: none"> of the main contacts typical | | 100 000 |
| <ul style="list-style-type: none"> of the auxiliary contacts typical | | 100 000 |
| Electrical endurance (switching cycles) | | |
| <ul style="list-style-type: none"> typical | | 100 000 |
| Size of contactor can be combined company-specific | | S00 |
| Protection class IP | | |
| <ul style="list-style-type: none"> on the front | | IP20 |
| <ul style="list-style-type: none"> of the terminal | | IP20 |
| Equipment marking | | |
| <ul style="list-style-type: none"> acc. to DIN EN 81346-2 | | Q |

Main circuit:

| | | |
|---|---|-----|
| Number of poles for main current circuit | | 3 |
| Operating voltage | V | 690 |
| <ul style="list-style-type: none"> Rated value | | |

| | | |
|---|-----|-----------|
| <ul style="list-style-type: none"> • at AC-3 Rated value maximum | V | 690 |
| Operating frequency Rated value | Hz | 50 ... 60 |
| Operating current Rated value | A | 0.8 |
| Operating current | | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value | A | 0.8 |
| Operating power | | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value | W | 120 |
| | W | 180 |
| | W | 250 |
| | W | 370 |
| Operating frequency | | |
| <ul style="list-style-type: none"> • at AC-3 maximum | 1/h | 15 |

Auxiliary circuit:

| | | |
|--|--|-----|
| Number of NC contacts | | |
| <ul style="list-style-type: none"> • for auxiliary contacts | | 0 |
| Number of NO contacts | | |
| <ul style="list-style-type: none"> • for auxiliary contacts | | 0 |
| Number of CO contacts | | |
| <ul style="list-style-type: none"> • for auxiliary contacts | | 0 |
| Product expansion Auxiliary switch | | Yes |

Protective and monitoring functions:

| | | |
|---|----|-----|
| Operational short-circuit current breaking capacity (Ics) with AC | | |
| <ul style="list-style-type: none"> • at 240 V Rated value • at 400 V Rated value • at 500 V Rated value • at 690 V Rated value | kA | 100 |
| | kA | 100 |
| | kA | 100 |
| | kA | 100 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| <ul style="list-style-type: none"> • with AC at 240 V Rated value • with AC at 400 V Rated value • with AC at 500 V Rated value • with AC at 690 V Rated value | kA | 100 |
| | kA | 100 |
| | kA | 100 |
| | kA | 100 |
| Breaking capacity short-circuit current (Icn) | | |
| <ul style="list-style-type: none"> • with 1 current path for DC at 150 V Rated value • with 2 current paths in series for DC at 300 V Rated value • with 3 current paths in series for DC at 450 V Rated value | kA | 10 |
| | kA | 10 |
| | kA | 10 |
| Response value current of the instantaneous short-circuit release | A | 10 |

UL/CSA ratings:**Full-load current (FLA) for three-phase AC motor**

| | | |
|------------------------|---|-----|
| • at 480 V Rated value | A | 0.8 |
| • at 600 V Rated value | A | 0.8 |

Short-circuit:

| | | |
|--|--|-----------|
| 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 6 A |

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 | mm | 97 |
| Width | mm | 45 |
| Depth | mm | 96 |
| Required spacing | | |
| • with side-by-side mounting | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — downwards | mm | 50 |
| — at the side | mm | 0 |
| • for grounded parts | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — at the side | mm | 30 |
| — downwards | mm | 50 |
| • for live parts | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — downwards | mm | 50 |
| — at the side | mm | 30 |

Connections/ Terminals:

| | | |
|--|--|----------------------|
| Type of electrical connection | | |
| • for main current circuit | | screw-type terminals |
| Arrangement of electrical connectors for main current circuit | | Top and bottom |

| | | |
|---|-----|--|
| Product function | | No |
| <ul style="list-style-type: none"> removable terminal for auxiliary and control circuit | | |
| Type of connectable conductor cross-section | | |
| <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 for AWG conductors for main contacts | | 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) 2x (18 ... 14), 2x 12 |
| Tightening torque | | |
| <ul style="list-style-type: none"> for main contacts with screw-type terminals | N·m | 0.8 ... 1.2 |
| 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 | | M3 |

Safety related data:

| | | |
|---|-----|-------------|
| B10 value with high demand rate acc. to SN 31920 | | 50 000 |
| 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 | % | 40 |
| | % | 40 |
| Failure rate [FIT] with low demand rate acc. to SN 31920 | FIT | 50 |
| T1 value for proof test interval or service life acc. to IEC 61508 | y | 10 |
| Protection against electrical shock | | finger-safe |

Mechanical data:

| | | |
|------------------------------------|--|-----|
| Size of the circuit-breaker | | S00 |
|------------------------------------|--|-----|

Ambient conditions:

| | | |
|--|----|-------------|
| Installation altitude at height above sea level maximum | m | 2 000 |
| Ambient temperature | | |
| <ul style="list-style-type: none"> during operation during storage during transport | °C | -20 ... +60 |
| | °C | -50 ... +80 |
| | °C | -50 ... +80 |
| Relative humidity during operation | % | 10 ... 95 |

Display:

| | | |
|--|--|--------|
| Display version | | |
| <ul style="list-style-type: none"> for switching status | | Handle |

Certificates/ approvals:

| | | |
|--------------------------|---------------------------|-------------------|
| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

| | |
|-------------------|-------------------|
| Test Certificates | Shipping Approval |
|-------------------|-------------------|

[Declaration of the Compliance with the order](#)



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



[Environmental Confirmations](#)

[Confirmation](#)



| |
|-------|
| other |
|-------|

[other](#)

Further information

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

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

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

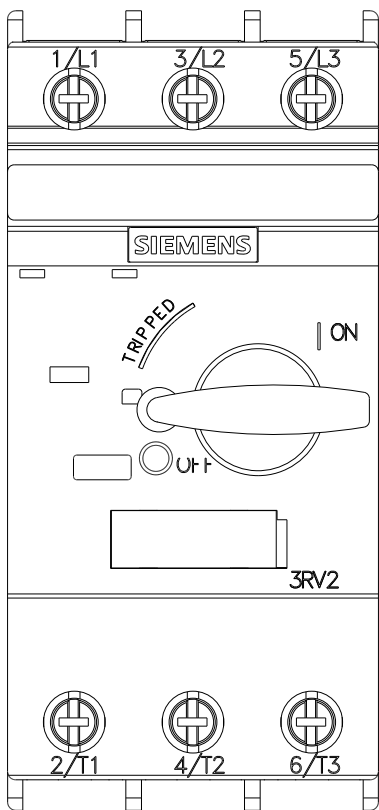
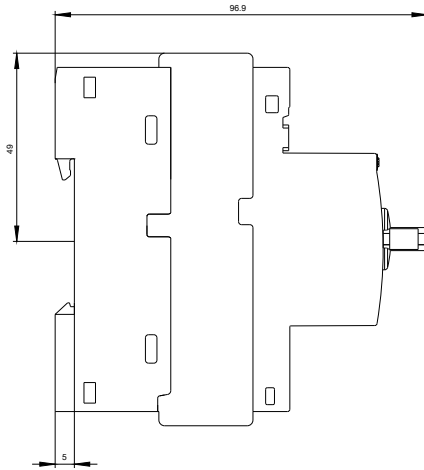
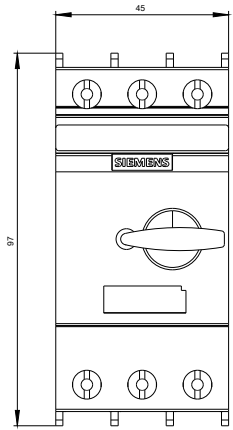
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RV23110HC10>

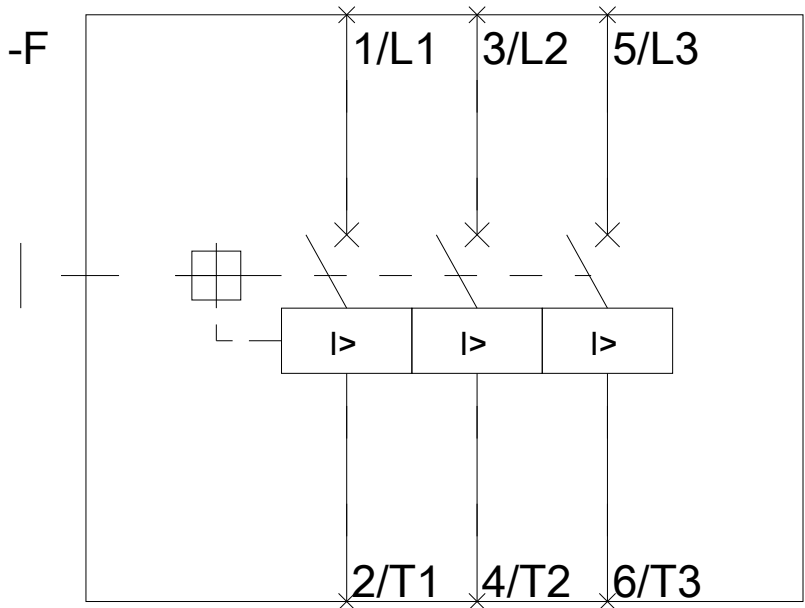
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV23110HC10/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RV23110HC10&lang=en





last modified:

11.03.2015