

CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 16A, N-RELEASE 208A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY



| | |
|--------------------------|--------------------------|
| product brandname | SIRIUS |
| Product designation | Circuit breaker |
| Design of the product | For starter combinations |
| 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 | 7 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 | |

| | |
|---|--------------------|
| <ul style="list-style-type: none"> • on the front • of the terminal | IP20 IP20 |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of the main contacts typical • of auxiliary contacts typical | 100 000 100 000 |
| Electrical endurance (switching cycles) | |
| <ul style="list-style-type: none"> • typical | 100 000 |
| Protection against electrical shock | finger-safe |
| Equipment marking acc. to DIN EN 81346-2 | Q |

Ambient conditions

| | |
|--|--|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -20 ... +60 °C -50 ... +80 °C -50 ... +80 °C |

Main circuit

| | |
|---|---|
| Number of poles for main current circuit | 3 |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum | 690 V 690 V |
| Operating frequency rated value | 50 ... 60 Hz |
| Operating current rated value | 16 A |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value | 16 A |
| 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 | 4 000 W 7 500 W 7 500 W 11 000 W |
| Operating frequency | |
| <ul style="list-style-type: none"> • at AC-3 maximum | 15 1/h |

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 |

Protective and monitoring functions

| | |
|--|----------------------------------|
| Product function | |
| <ul style="list-style-type: none"> • Ground fault detection • Phase failure detection | No No |
| Operational short-circuit current breaking capacity (Ics) at 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 | 100 kA 30 kA 5 kA 2 kA |
| Maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value | 100 kA 55 kA 10 kA 4 kA |
| Breaking capacity short-circuit current (Icn) | |
| <ul style="list-style-type: none"> • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value | 10 kA 10 kA 10 kA |

UL/CSA ratings

| | |
|---|---------------------------------------|
| Full-load current (FLA) for three-phase AC motor | |
| <ul style="list-style-type: none"> • at 480 V rated value • at 600 V rated value | 16 A 16 A |
| Yielded mechanical performance [hp] | |
| <ul style="list-style-type: none"> • for single-phase AC motor <ul style="list-style-type: none"> — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value | 1 hp 2 hp 3 hp 5 hp 10 hp |

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 | |
| <ul style="list-style-type: none"> • at 240 V • at 400 V • at 500 V • at 690 V | gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 40 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 | 106 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 0 mm — Backwards 0 mm — upwards 50 mm — downwards 50 mm — at the side 0 mm • for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — Backwards 0 mm — upwards 50 mm — at the side 30 mm — downwards 50 mm • for live parts <ul style="list-style-type: none"> — forwards 0 mm — Backwards 0 mm — upwards 50 mm — downwards 50 mm — at the side 30 mm | |





| Connections/Terminals | |
|--|-------------------------|
| Product function | |
| <ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit | No |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit | spring-loaded terminals |
| 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 2x (0,5 ... 4 mm²) — finely stranded with core end processing 2x (0.5 ... 2.5 mm²) — finely stranded without core end processing 2x (0.5 ... 2.5 mm²) • at AWG conductors for main contacts 2x (20 ... 12) | |
| Design of screwdriver shaft | Diameter 3 mm |




Safety related data

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|--|--------|
| 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 | 50 % |
| <ul style="list-style-type: none"> with high demand rate acc. to SN 31920 | 50 % |
| 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 | Declaration of Conformity |
|  CCC |  CSA |
|  UL |  KC |
| |  EAC |
| |  EG-Konf. |

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|--|---|
| Test Certificates | Shipping Approval |
| Special Test Certificate | Type Test Certificates/Test Report |
| |  ABS |
| |  BUREAU VERITAS |
| |  LRS |
| |  PRS |

| | |
|---|--|
| Shipping Approval | other |
|  RINA |  RMRS |
| | Environmental Confirmations |
| | Confirmation |
| |  VDE |
| | Miscellaneous |

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|-------------------------------------|
| Railway |
| Vibration and Shock |

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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=3RV2311-4AC20>

Cax online generator

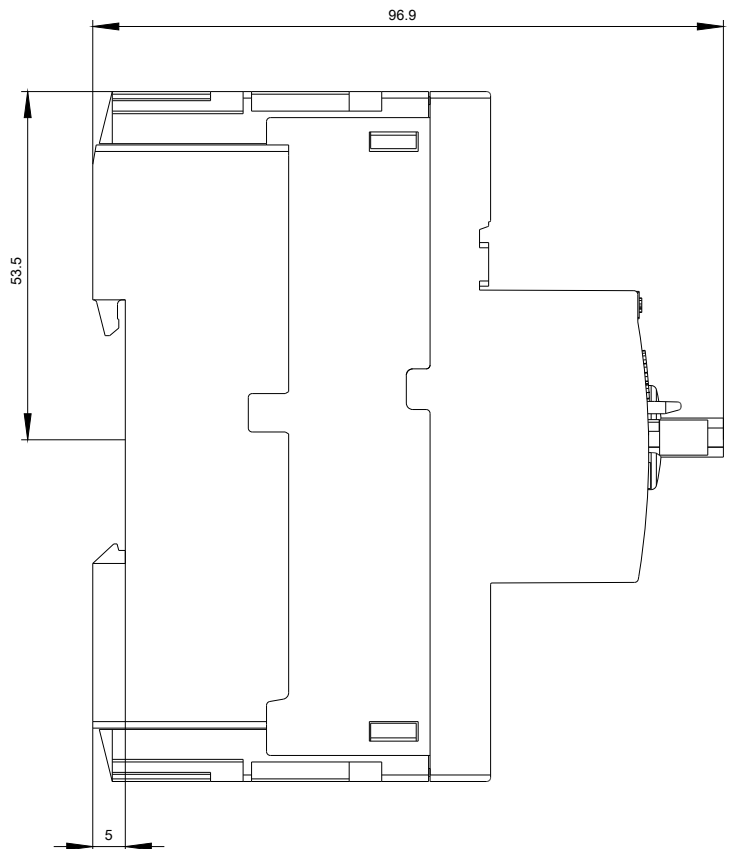
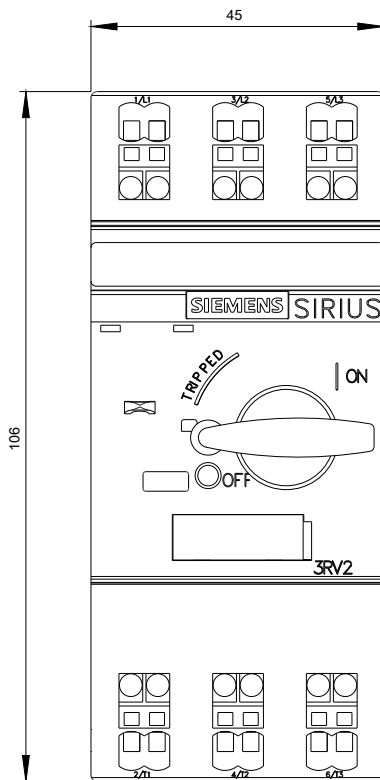
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-4AC20>

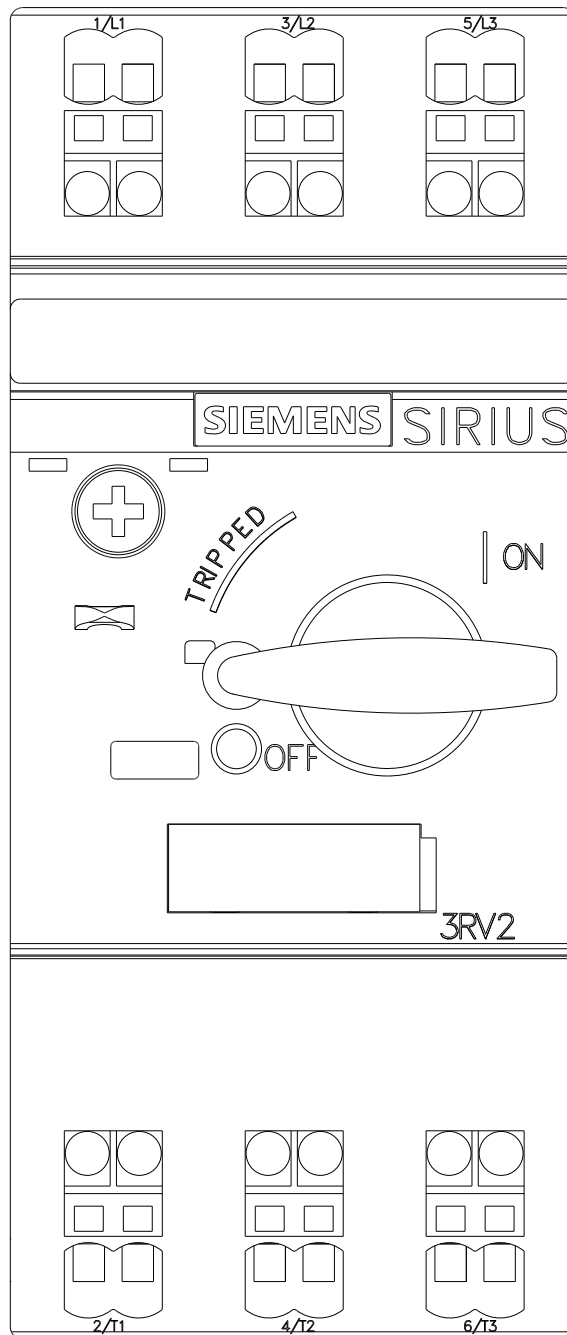
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

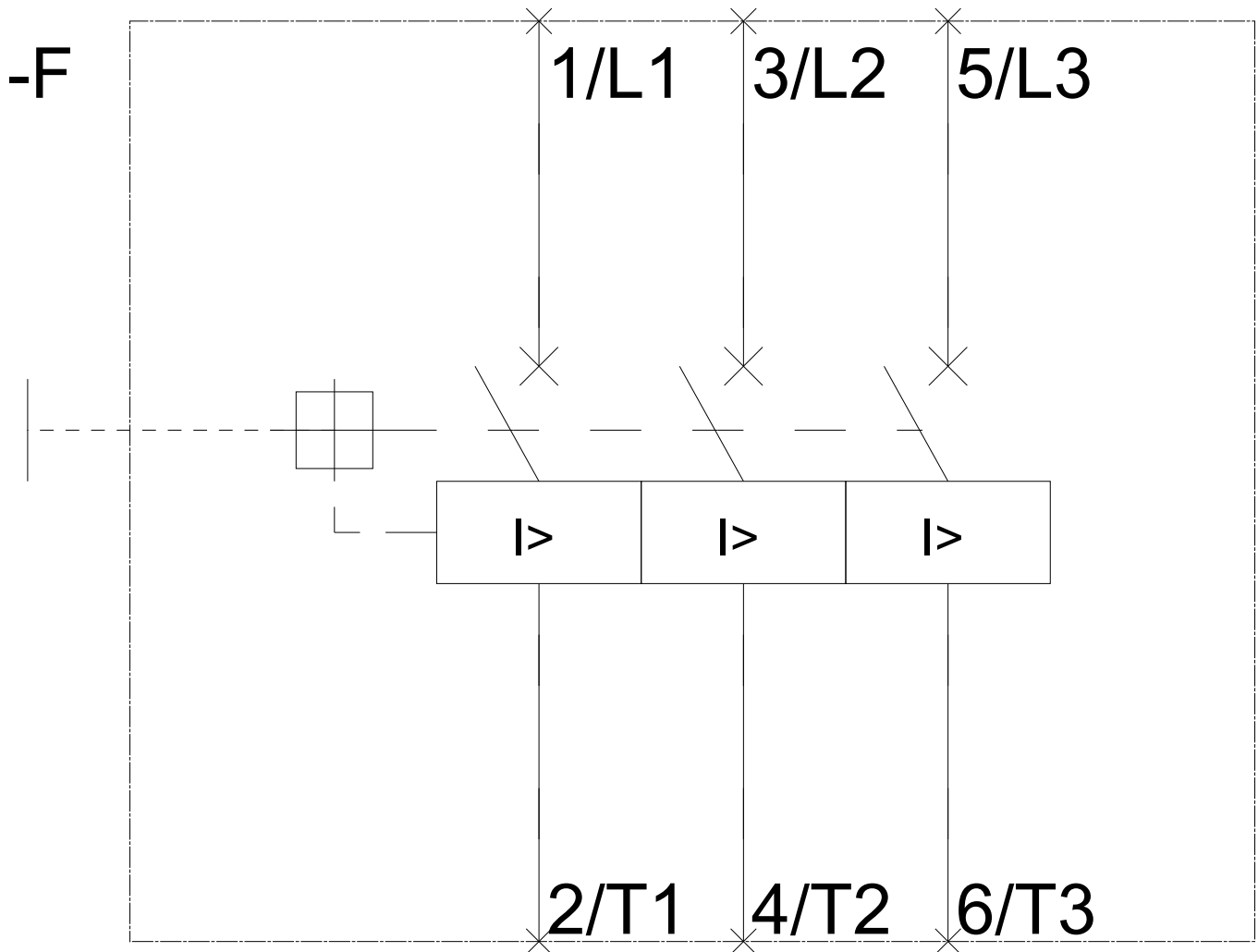
<https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-4AC20>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-4AC20&lang=en







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