

CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.0.28...0.4A,N-REL.5.2A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY



Figure similar

| | |
|---|----------------------|
| product brandname | SIRIUS |
| Product designation | 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 |
| Product extension | |
| • Auxiliary switch | Yes |
| Power loss [W] total typical | 5 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 | <p>IP20</p> <p>IP00</p> |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of the main contacts typical • of auxiliary contacts typical | <p>100 000</p> <p>100 000</p> |
| Electrical endurance (switching cycles) | |
| <ul style="list-style-type: none"> • 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 | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | <p>-20 ... +60 °C</p> <p>-50 ... +80 °C</p> <p>-50 ... +80 °C</p> |
| 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 | 0.28 ... 0.4 A |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum | <p>690 V</p> <p>690 V</p> |
| Operating frequency rated value | 50 ... 60 Hz |
| Operating current rated value | 0.4 A |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value | 0.4 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 | <p>60 W</p> <p>90 W</p> <p>180 W</p> <p>180 W</p> |
| Operating frequency | |
| <ul style="list-style-type: none"> • at AC-3 maximum | 15 1/h |

| | |
|------------------------------|--|
| Auxiliary circuit | |
| Number of CO contacts | |

- for auxiliary contacts

0

Protective and monitoring functions

| | |
|--|--|
| Trip class | CLASS 10 |
| Design of the overload release | thermal |
| 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 | 100 000 A 100 000 A 100 000 A 100 000 A |
| 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 100 kA 100 kA 100 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 | 0.4 A 0.4 A |

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 | none required None required None required None required |

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 | 90 mm |
| Width | 45 mm |
| Depth | 81 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 | screw-type 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 finely stranded with core end processing | 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (1 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| 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 | 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²) |
| Tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 0.8 ... 1.2 N·m 0.8 ... 1.2 N·m |
| Design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts | M3 |

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 with high demand rate acc. to SN 31920 | 50 % 50 % |
| Failure rate [FIT] <ul style="list-style-type: none"> with low demand rate acc. to SN 31920 | 50 FIT |
| Display version <ul style="list-style-type: none"> for switching status | Rocker switch |

Certificates/approvals

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



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|-------------------|-------|
| Shipping Approval | other |
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|---------------------|
| Further information |
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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=3RV1011-0EA10>

Cax online generator

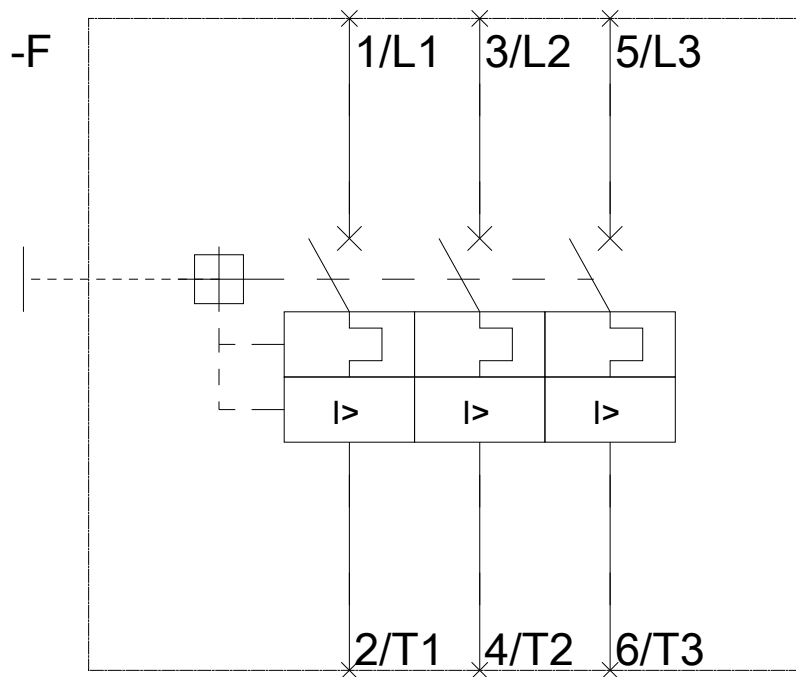
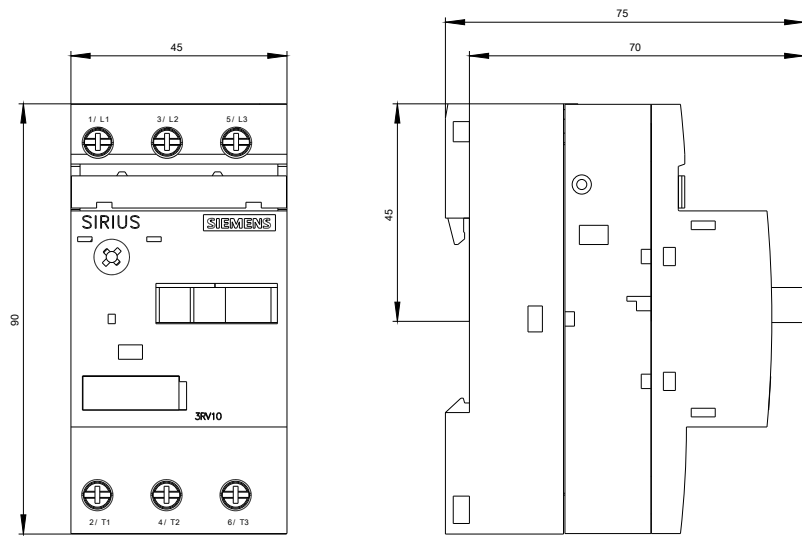
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0EA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0EA10&lang=en



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