



OVERLOAD RELAY 1...4 A FOR MOTOR PROTECTION
 SIZE S0,
 CLASS 20 CONTACTOR ASS. MAIN CIRCUIT: SCREW
 CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-
 RESET

| General technical data: | | |
|-------------------------------------------------------------------------|----|----------------------------|
| product brand name | | SIRIUS |
| Product designation | | solid-state overload relay |
| Size of overload relay | | S0 |
| Number of poles / for main current circuit | | 3 |
| Product function / removable terminal for auxiliary and control circuit | | Yes |
| Product function | | |
| • overload protection | | Yes |
| • phase disturbance recognition | | Yes |
| • short-circuit to earth recognition | | No |
| Product component | | |
| • auxiliary switch | | Yes |
| • trip indicator | | Yes |
| Insulation voltage / with degree of pollution 3 / rated value | V | 690 |
| Impulse voltage resistance / rated value | kV | 6 |
| Protection class IP | | |
| • of the terminal | | IP20 |
| • on the front | | IP20 |
| Protection against electrical shock | | finger-safe |

| | | |
|------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------|
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Resistance against vibration | | 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles |
| Ambient temperature | | |
| • during transport | °C | -40 ... +80 |
| • during storage | °C | -40 ... +80 |
| • during operating | °C | -25 ... +60 |
| Relative humidity | | |
| • during operating phase | / % | 95 |
| EMC immunity to interference / according to IEC 60947-1 | | corresponds to degree of severity 3 |
| EMC emitted interference / according to IEC 60947-1 | | CISPR 11, environment B (residential area) |
| Electrostatic discharge / according to IEC 61000-4-2 | | 6 kV contact discharge / 8 kV air discharge |
| Field-bound parasitic coupling / according to IEC 61000-4-3 | | 10 V/m |
| Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4 | | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |
| Conductor-bound parasitic coupling conductor-earth SURGE | | 2 kV (line to earth) corresponds to degree of severity 3 |
| Conductor-bound parasitic coupling conductor-conductor SURGE | | 1 kV (line to line) corresponds to degree of severity 3 |
| Type of protection | | PTB 09 ATEX 3001 Ex II (2) G [Ex e] [Ex d] [Ex px] D [Ex t] [Ex p] |
| Active power loss / total / typical | W | 0.1 |
| Size of the contactor / can be combined / company-specific | | S0 |

Main circuit:

| | | |
|------------------------------------|---|------|
| Operating current | | |
| • at AC-3 / at 400 V / rated value | A | 4 |
| • of the auxiliary contacts | | |
| • at AC-15 | | |
| • at 24 V | A | 4 |
| • at 110 V | A | 4 |
| • at 120 V | A | 4 |
| • at 125 V | A | 4 |
| • at 230 V | A | 3 |
| • at DC-13 | | |
| • at 24 V | A | 2 |
| • at 60 V | A | 0.55 |
| • at 110 V | A | 0.3 |
| • at 125 V | A | 0.3 |
| • at 220 V | A | 0.11 |
| Type of assignment | | 2 |

Control circuit/ Control:

| | | |
|--------------------------------------------------------|--|-------|
| Type of voltage supply / via input/ output link master | | No |
| Voltage type / for auxiliary and control circuit | | AC/DC |

Auxiliary circuit:

| | | |
|-------------------------------------------------------------------------------------------|--|-----------------|
| Number of NC contacts / for auxiliary contacts | | 1 |
| Number of NO contacts / for auxiliary contacts | | 1 |
| Number of changeover contacts / for auxiliary contacts | | 0 |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required | | fuse gL/gG: 6 A |

Protective and monitoring functions:

| | | |
|---------------------------------------------------------------------------------------------|---|----------|
| Trip class | | CLASS 20 |
| Adjustable response current | | |
| <ul style="list-style-type: none"> of the current-dependent overload release | A | 1 ... 4 |

Installation/ mounting/ dimensions:

| | | |
|-----------------------------------------------------------------|----|-----------------|
| Mounting type | | direct mounting |
| mounting position | | any |
| Depth | mm | 84 |
| Height | mm | 87 |
| Width | mm | 45 |
| Arrangement of electrical connectors / for main current circuit | | Top and bottom |

Connections/ terminals:

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design of the electrical connection | | |
| <ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit | | screw-type terminals screw-type terminals |
| Type of the connectable conductor cross-section | | |
| <ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid or multi-stranded finely stranded <ul style="list-style-type: none"> with conductor end processing for AWG conductors / for main contacts for auxiliary contacts <ul style="list-style-type: none"> solid or multi-stranded finely stranded <ul style="list-style-type: none"> with conductor end processing for AWG conductors / for auxiliary contacts | | 1x (1 ... 10 mm ²), 2x (1 ... 10 mm ²) 1x (1 ... 6 mm ²), 2 x (1 ... 6 mm ²), 1x 10 mm ² 1x (16 ... 8), 2x (16 ... 8) 1x (0,5 ... 4 mm ²), 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²) 1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²), 1x (0.5 ... 2.5 mm ²) 1x (20 ... 14), 2x (20 ... 14) |

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL

B600 / R300

Certificates/ approvals:

General Product Approval

EMC

For use in hazardous locations



CCC



CSA



UL



C-TICK



ATEX

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



ABS



BUREAU VERITAS



GL



LRS



RINA

other

[Declaration of Conformity](#)

[Environmental Confirmations](#)

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

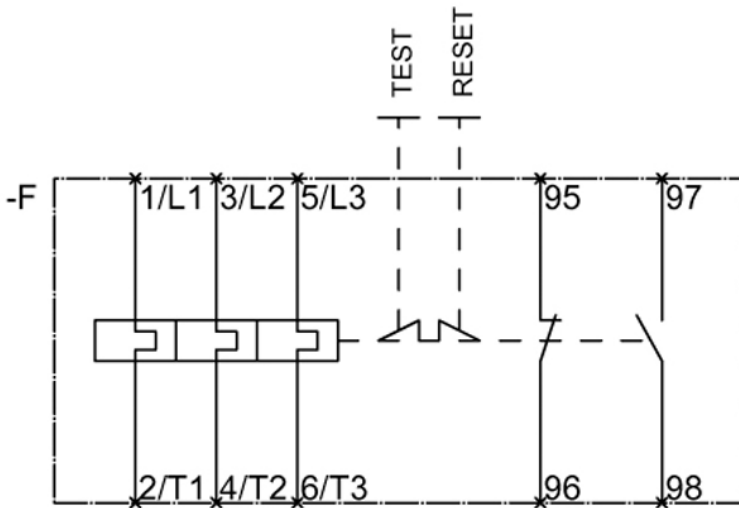
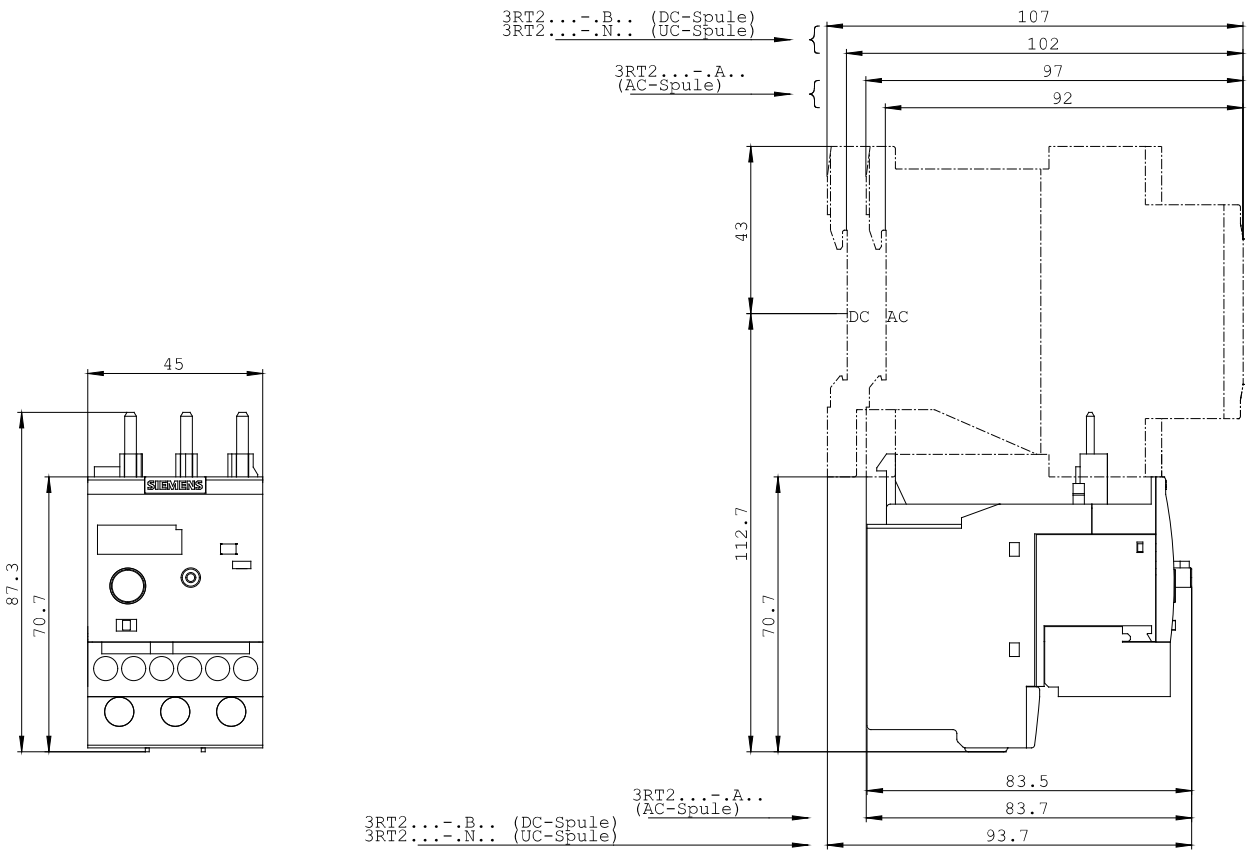
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB3026-2PB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3026-2PB0



last change:

Aug 4, 2014