



OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION SIZE S0, CLASS 10 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                                 |
| Impulse voltage resistance / rated value                                | kV  | 6                                   |
| Protection class IP / on the front                                      |     | IP20                                |
| Protection against electrical shock                                     |     | finger-safe                         |
| Installation altitude / at a height over sea level / maximum            | m   | 2,000                               |
| Resistance against shock                                                |     | 15g / 11 ms                         |
| 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 |

|                                                                                                     |   |                                                                             |
|-----------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| <b>EMC emitted interference</b><br>• according to IEC 60947-1                                       |   | CISPR 11, environment B (residential area)                                  |
| <b>Electrostatic discharge</b><br>• according to IEC 61000-4-2                                      |   | 6 kV contact discharge / 8 kV air discharge                                 |
| <b>Field-bound parasitic coupling</b><br>• according to IEC 61000-4-3                               |   | 10 V/m                                                                      |
| <b>Conductor-bound parasitic coupling BURST</b><br>• according to IEC 61000-4-4                     |   | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE</b><br>• according to IEC 61000-4-5     |   | 2 kV (line to earth) corresponds to degree of severity 3                    |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE</b><br>• according to IEC 61000-4-5 |   | 1 kV (line to line) corresponds to degree of severity 3                     |
| <b>type of protection</b>                                                                           |   | PTB 09 ATEX 3001 Ex II (2) GD                                               |
| <b>Active power loss / total / typical</b>                                                          | W | 0.05                                                                        |
| <b>Size of the contactor / can be combined / company-specific</b>                                   |   | S0                                                                          |

#### Main circuit:

|                                                               |   |      |
|---------------------------------------------------------------|---|------|
| <b>Operating current / of the fuse link / rated value</b>     | A | 6    |
| <b>Operational current / at AC-3 / at 400 V / rated value</b> | A | 1.25 |
| <b>Type of assignment</b>                                     |   | 2    |

#### Auxiliary circuit:

|                                                                                                                                                                                                             |                                                |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|
| <b>Number of NC contacts / for auxiliary contacts</b>                                                                                                                                                       |                                                | 1                                             |
| <b>Number of NO contacts / for auxiliary contacts</b>                                                                                                                                                       |                                                | 1                                             |
| <b>Number of changeover contacts / for auxiliary contacts</b>                                                                                                                                               |                                                | 0                                             |
| <b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>                                                                                                            |                                                | fuse gL/gG: 6 A                               |
| <b>Operating current / of the auxiliary contacts</b><br>• at AC-15<br>• at 24 V<br>• at 110 V<br>• at 120 V<br>• at 125 V<br>• at 230 V<br>• at DC-13<br>• at 24 V<br>• at 60 V<br>• at 110 V<br>• at 125 V | A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | 4<br>4<br>4<br>4<br>3<br>2<br>1<br>0.3<br>0.3 |

- at 220 V

|   |   |
|---|---|
| A | 1 |
|---|---|

### Protection function:

**Trip class**

|  |          |
|--|----------|
|  | CLASS 10 |
|--|----------|

**Adjustable response current**

- of the current-dependent overload release

|   |               |
|---|---------------|
| A | 0.32 ... 1.25 |
|---|---------------|

### Installation/mounting/dimensions:

**Type of mounting**

|  |                 |
|--|-----------------|
|  | direct mounting |
|--|-----------------|

**mounting position**

|  |     |
|--|-----|
|  | any |
|--|-----|

**Depth**

|    |    |
|----|----|
| mm | 84 |
|----|----|

**Height**

|    |    |
|----|----|
| mm | 87 |
|----|----|

**Width**

|    |    |
|----|----|
| mm | 45 |
|----|----|

### Connections:

**Design of the electrical connection**

- for main current circuit
- for auxiliary and control current circuit

|  |                      |
|--|----------------------|
|  | screw-type terminals |
|  | screw-type terminals |

**Type of the connectable conductor cross-section**

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
  - stranded
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

|  |                                                                                                         |
|--|---------------------------------------------------------------------------------------------------------|
|  | 1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )                                          |
|  | 1x (1 ... 6 mm <sup>2</sup> ), 2 x (1 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>                    |
|  | 1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )                                          |
|  | 1x (16 ... 8), 2x (16 ... 8)                                                                            |
|  | 1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )  |
|  | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ), 1x (0.5 ... 2.5 mm <sup>2</sup> ) |
|  | 1x (20 ... 14), 2x (20 ... 14)                                                                          |

### UL/CSA ratings:

**Contact rating designation / for auxiliary contacts / according to UL**

|  |             |
|--|-------------|
|  | B600 / R300 |
|--|-------------|

### Certificates/approvals:

|                                 |            |                                       |
|---------------------------------|------------|---------------------------------------|
| <b>General Product Approval</b> | <b>EMC</b> | <b>For use in hazardous locations</b> |
|---------------------------------|------------|---------------------------------------|



CCC



CSA



GOST



UL



C-TICK



ATEX

### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

### Shipping Approval

**other**



ABS



BUREAU VERITAS



GL



LRS



RMRS

[Declaration of Conformity](#)

### Further information:

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator:**

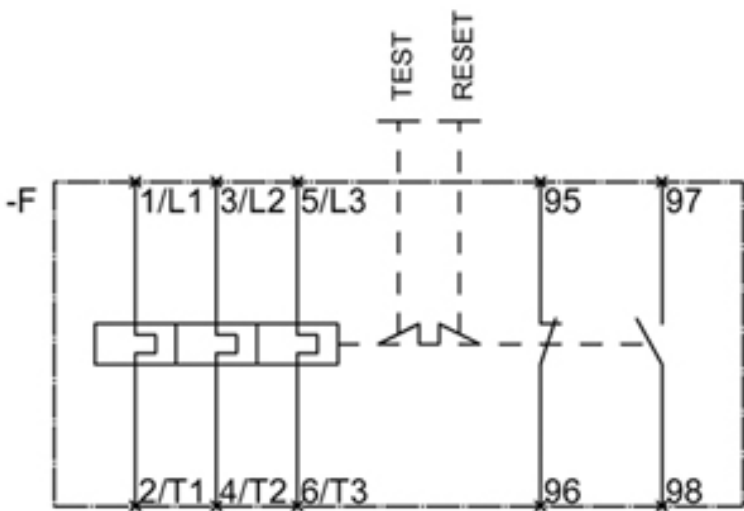
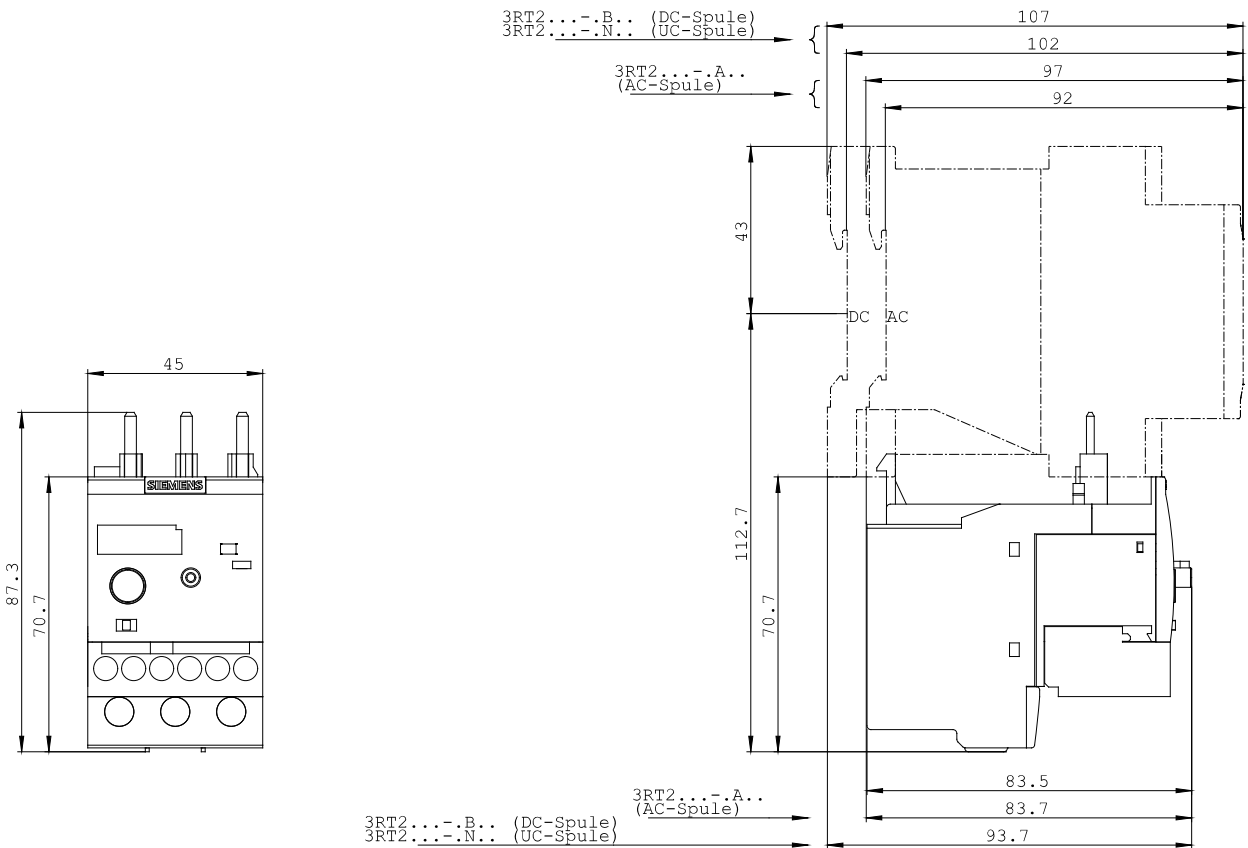
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB3026-1NB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB3026-1NB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3026-1NB0)



last change:

Jul 1, 2013