



OVERLOAD RELAY 10...40 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                        |
| 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                |

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

#### Main circuit:

|                                    |   |      |
|------------------------------------|---|------|
| <b>Operating current</b>           |   |      |
| • at AC-3 / at 400 V / rated value | A | 40   |
| • 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 |
| <b>Type of assignment</b>          |   | 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 10  |
| Adjustable response current   |   |           |
| <ul style="list-style-type: none"> <li>of the current-dependent overload release</li> </ul> | A | 10 ... 40 |

#### 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"> <li>for main current circuit</li> <li>for auxiliary and control current circuit</li> </ul>  |  | screw-type terminals<br>screw-type terminals  |
| Type of the connectable conductor cross-section  |  |   |
| <ul style="list-style-type: none"> <li>for main contacts               <ul style="list-style-type: none"> <li>solid or multi-stranded</li> <li>finely stranded                   <ul style="list-style-type: none"> <li>with conductor end processing</li> </ul> </li> </ul> </li> <li>for AWG conductors / for main contacts</li> <li>for auxiliary contacts               <ul style="list-style-type: none"> <li>solid or multi-stranded</li> <li>finely stranded                   <ul style="list-style-type: none"> <li>with conductor end processing</li> </ul> </li> </ul> </li> <li>for AWG conductors / for auxiliary contacts</li> </ul> |  | 1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )<br><br>1x (1 ... 6 mm <sup>2</sup> ), 2 x (1 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br><br>1x (16 ... 8), 2x (16 ... 8)<br><br>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> )<br><br>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> )<br><br>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

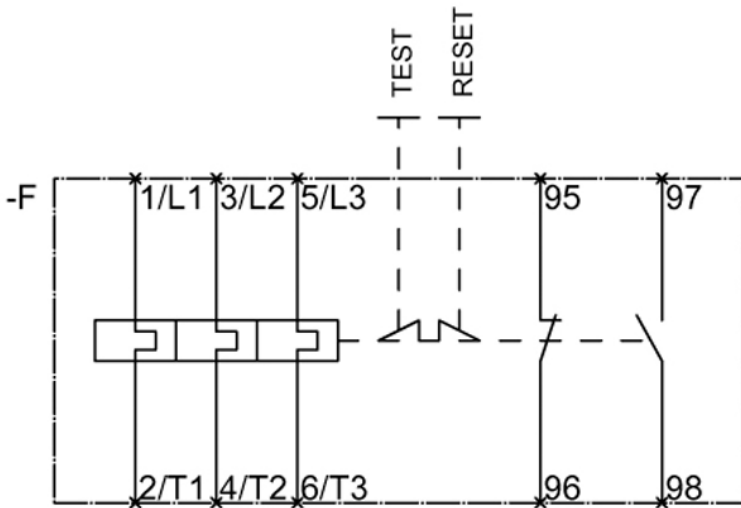
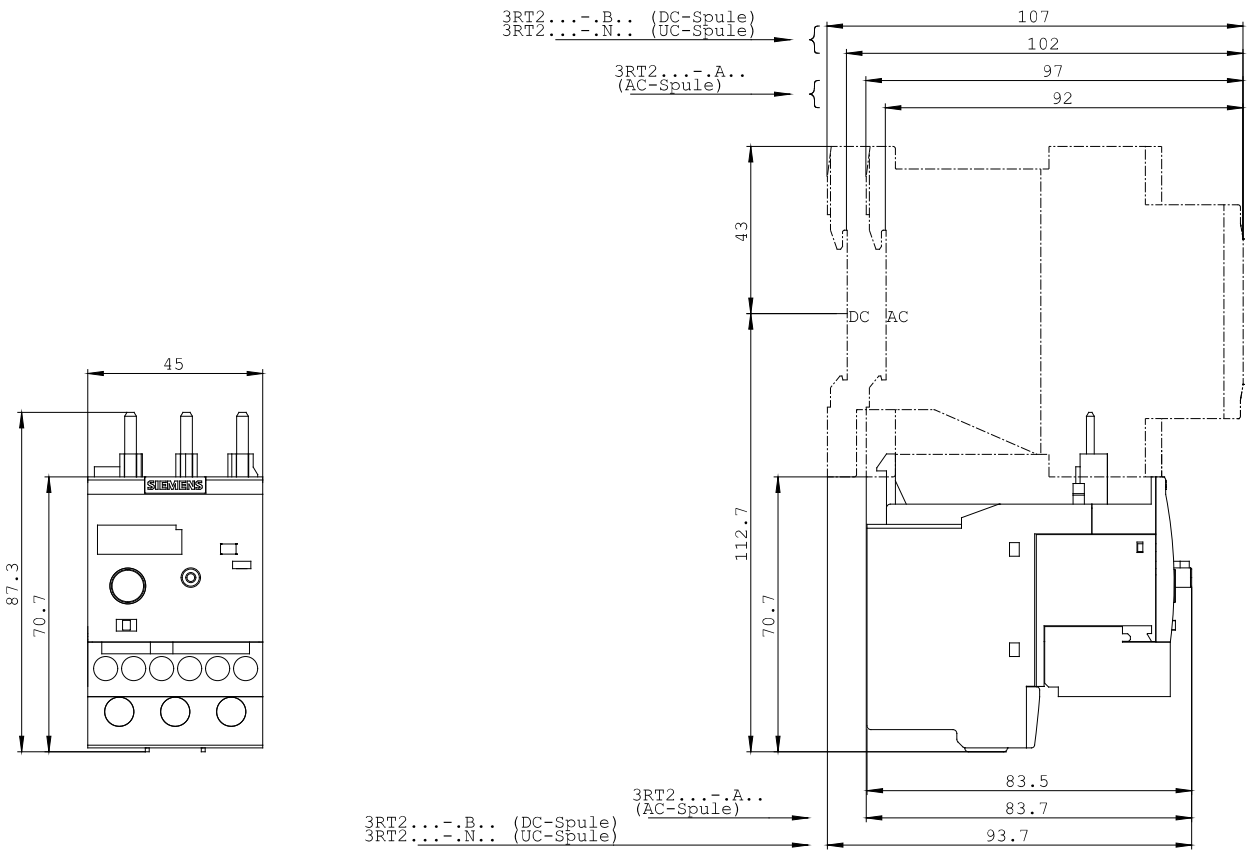
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB3026-1VB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB3026-1VB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3026-1VB0)



last change:

Aug 4, 2014