



OVERLOAD RELAY 0.1...0.4 A FOR MOTOR  
PROTECTION SIZE S0,  
CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SCREW  
CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-  
RESET INT. GROUND FAULT DETECTION

| 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                                    |    | Yes                        |
| 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                |



|                                                        |  |       |
|--------------------------------------------------------|--|-------|
| 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 5, 10, 20 and 30 adjustable |
| Adjustable response current                                                                 |   |                                   |
| <ul style="list-style-type: none"> <li>of the current-dependent overload release</li> </ul> | A | 0.1 ... 0.4                       |

#### 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"> <li>for main current circuit</li> </ul>                    |  | screw-type terminals                                             |
| <ul style="list-style-type: none"> <li>for auxiliary and control current circuit</li> </ul>   |  | screw-type terminals                                             |
| Type of the connectable conductor cross-section                                               |  |                                                                  |
| <ul style="list-style-type: none"> <li>for main contacts</li> </ul>                           |  |                                                                  |
| <ul style="list-style-type: none"> <li>solid or multi-stranded</li> </ul>                     |  | 1x (1 ... 10 mm²), 2x (1 ... 10 mm²)                             |
| <ul style="list-style-type: none"> <li>finely stranded</li> </ul>                             |  |                                                                  |
| <ul style="list-style-type: none"> <li>with conductor end processing</li> </ul>               |  | 1x (1 ... 6 mm²), 2 x (1 ... 6 mm²), 1x 10 mm²                   |
| <ul style="list-style-type: none"> <li>for AWG conductors / for main contacts</li> </ul>      |  | 1x (16 ... 8), 2x (16 ... 8)                                     |
| <ul style="list-style-type: none"> <li>for auxiliary contacts</li> </ul>                      |  |                                                                  |
| <ul style="list-style-type: none"> <li>solid or multi-stranded</li> </ul>                     |  | 1x (0,5 ... 4 mm²), 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)  |
| <ul style="list-style-type: none"> <li>finely stranded</li> </ul>                             |  |                                                                  |
| <ul style="list-style-type: none"> <li>with conductor end processing</li> </ul>               |  | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²), 1x (0.5 ... 2.5 mm²) |
| <ul style="list-style-type: none"> <li>for AWG conductors / for auxiliary contacts</li> </ul> |  | 1x (20 ... 14), 2x (20 ... 14)                                   |

#### UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL

B300 / 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

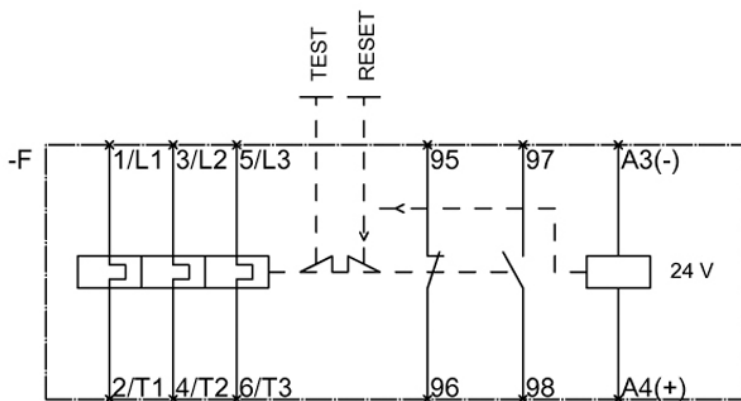
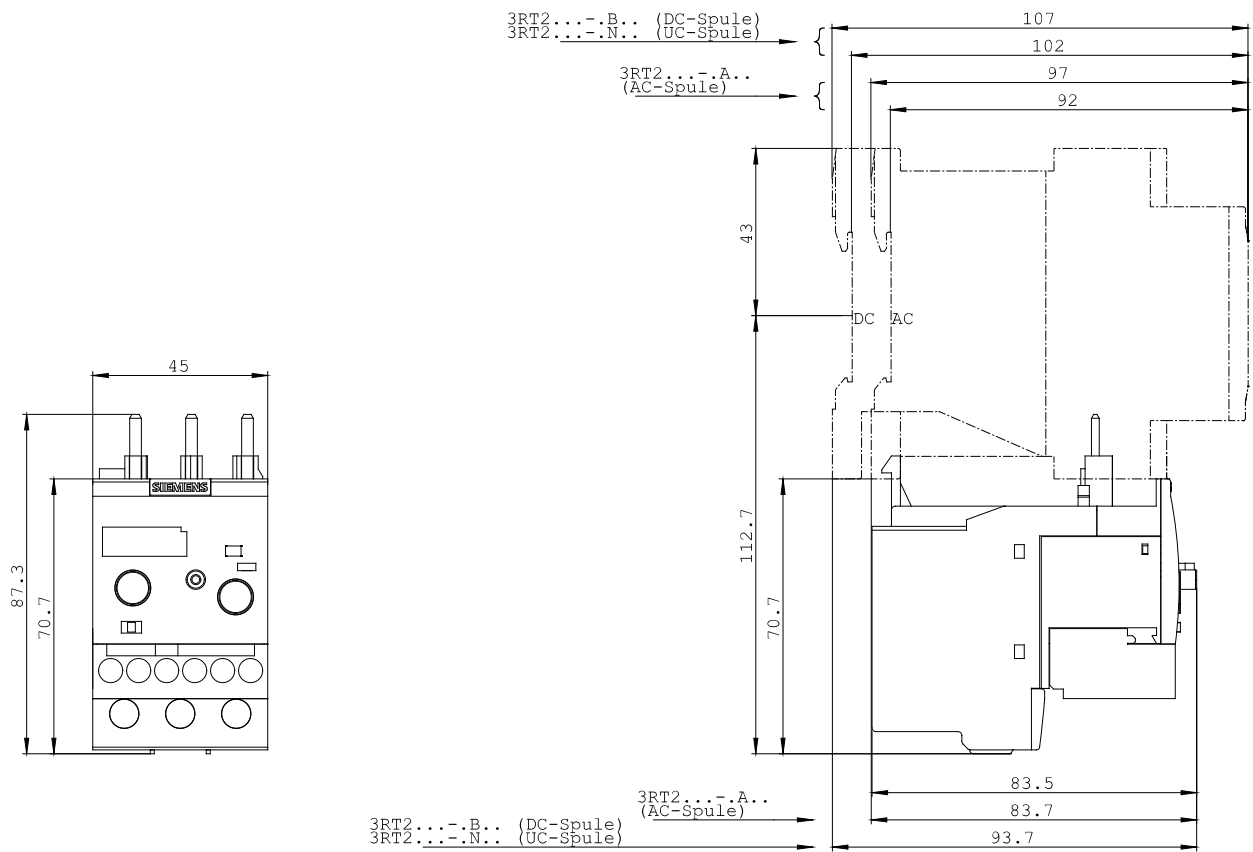
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB3123-4RB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB3123-4RB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3123-4RB0)



last change:

Aug 4, 2014