



OVERLOAD RELAY 0.1...0.4 A FOR MOTOR PROTECTION SIZE S00, CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-AUTOM.-RESET

|                     |  |                            |
|---------------------|--|----------------------------|
| product brand name  |  | SIRIUS                     |
| Product designation |  | solid-state overload relay |

| General technical data:  |    |  |
|--|----|--|
| Active power loss total typical  | W  | 0.1  |
| Insulation voltage   | V  | 690  |
| <ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>                 |    |  |
| Shock resistance   |    | 15g / 11 ms  |
| <ul style="list-style-type: none"> <li>acc. to IEC 60068-2-27</li> </ul>                                 |    |  |
| Vibration resistance   |    | 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles |
| Surge voltage resistance Rated value   | kV | 6  |
| Size of contactor can be combined company-specific   |    | S00  |
| Type of assignment   |    | 2  |
| Protection class IP  |    | IP20   |
| <ul style="list-style-type: none"> <li>on the front</li> <li>of the terminal</li> </ul>                  |    | IP20   |
| Type of protection   |    | II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex tj] [Ex p]   |
| Equipment marking  |    | F  |
| <ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to DIN EN 81346-2</li> </ul> |    | F  |

| Main circuit:   |   |             |
|---|---|-------------|
| Number of poles for main current circuit                                      |   | 3           |
| Adjustable response value current of the current-dependent overload release   | A | 0.1 ... 0.4 |
| Operating voltage   | V | 690         |
| <ul style="list-style-type: none"> <li>at AC-3 Rated value maximum</li> </ul> |   |             |

|   |    |           |
|---|----|-----------|
| Operating frequency Rated value   | Hz | 50 ... 60 |
| <b>Operating current</b>  |    |           |
| <ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V Rated value</li> </ul> | A  | 0.4       |

#### Auxiliary circuit:

|   |                       |                                  |
|---|-----------------------|----------------------------------|
| <b>Number of NC contacts</b>  |                       |                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>  |                       | 1<br>for contactor disconnection |
| <b>Number of NO contacts</b>  |                       |                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>  |                       | 1<br>for message "tripped"       |
| <b>Number of CO contacts</b>  |                       |                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>  |                       | 0                                |
| <b>Design of the auxiliary switch</b>   |                       | integrated                       |
| <b>Operating current of the auxiliary contacts at AC-15</b>   |                       |                                  |
| <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 110 V</li> <li>• at 120 V</li> <li>• at 125 V</li> <li>• at 230 V</li> </ul> | A<br>A<br>A<br>A<br>A | 4<br>4<br>4<br>4<br>3            |
| <b>Operating current of the auxiliary contacts at DC-13</b>   |                       |                                  |
| <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> </ul>  | A<br>A<br>A<br>A<br>A | 2<br>0.55<br>0.3<br>0.3<br>0.11  |

#### Protective and monitoring functions:

|   |  |            |
|---|--|------------|
| <b>Trip class</b>                             |  | CLASS 10   |
| <b>Design of the overload circuit breaker</b> |  | electronic |

#### UL/CSA ratings:

|  |  |             |
|--|--|-------------|
| <b>Contact rating of the auxiliary contacts acc. to UL</b> |  | B600 / R300 |
|--|--|-------------|

#### Short-circuit:

|  |  |                              |
|--|--|------------------------------|
| <b>Design of the fuse link</b>   |  |                              |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> <li>— required</li> <li>• for short-circuit protection of the auxiliary switch</li> <li>required</li> </ul> |  | Fuse gG: 4 A<br>fuse gG: 6 A |

#### Installation/ mounting/ dimensions:

|                          |  |                 |
|--------------------------|--|-----------------|
| <b>mounting position</b> |  | any             |
| <b>Mounting type</b>     |  | direct mounting |

|  |    |    |
|--|----|----|
| <b>Height</b>  | mm | 72 |
| <b>Width</b>   | mm | 45 |
| <b>Depth</b>   | mm | 90 |
| <b>Required spacing</b>  |    |    |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | mm | 0  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 6  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 6  |
|  | mm | 0  |
|  | mm | 6  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 0  |
|  | mm | 6  |

**Connections/ Terminals:**

|  |  |   |
|--|--|---|
| <b>Type of electrical connection</b>   |  |   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>  |  | spring-loaded terminals<br>spring-loaded terminals  |
| <b>Arrangement of electrical connectors for main current circuit</b>   |  | Top and bottom  |
| <b>Product function</b>  |  |   |
| <ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>   |  | Yes   |
| <b>Type of connectable conductor cross-section</b>   |  |   |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul> |  | 1x (0,5 ... 4 mm <sup>2</sup> )<br>1x (0.5 ... 2.5 mm <sup>2</sup> )<br>1x (0.5 ... 2.5 mm <sup>2</sup> )<br><br>1x (20 ... 12)<br><br>1x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,5 ... 1,5 mm <sup>2</sup> )<br>1x (0.25 ... 1.5 mm <sup>2</sup> ), 2x (0.25 ... 1.5 mm <sup>2</sup> ) |

- finely stranded without core end processing
- for AWG conductors for auxiliary contacts

1x (0.25 ... 1.5 mm<sup>2</sup>), 2x (0.25 ... 1.5 mm<sup>2</sup>)

1x (24 ... 16), 2x (24 ... 16)

#### Safety related data:

**Protection against electrical shock** finger-safe

#### Mechanical data:

**Size of overload relay** S00

#### Communication/ Protocol:

**Protocol is supported**

- IO-Link protocol

No

**Type of voltage supply via input/output link master**

No

#### Ambient conditions:

**Installation altitude at height above sea level maximum** m 2 000

**Ambient temperature**

- during operation
- during storage
- during transport

°C -25 ... +60

°C -40 ... +80

°C -40 ... +80

**Relative humidity during operation**

% 95

#### Electromagnetic compatibility:

**EMC emitted interference**

- acc. to IEC 60947-1

CISPR 11, environment B (residential area)

**EMI immunity acc. to IEC 60947-1**

corresponds to degree of severity 3

**Conducted interference due to burst acc. to IEC 61000-4-4**

2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3

**Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5**

2 kV (line to earth) corresponds to degree of severity 3

**Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5**

1 kV (line to line) corresponds to degree of severity 3

**Field-bound parasitic coupling acc. to IEC 61000-4-3**

10 V/m

**Electrostatic discharge acc. to IEC 61000-4-2**

6 kV contact discharge / 8 kV air discharge

#### Display:

**Display version**

- for switching status

Slide switch

#### Certificates/ approvals:

|                          |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMC | For use in hazardous locations |
|--------------------------|-----|--------------------------------|



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                   |       |
|-------------------|-------|
| Shipping Approval | other |
|-------------------|-------|



[Environmental Confirmations](#)

[Confirmation](#)

#### 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

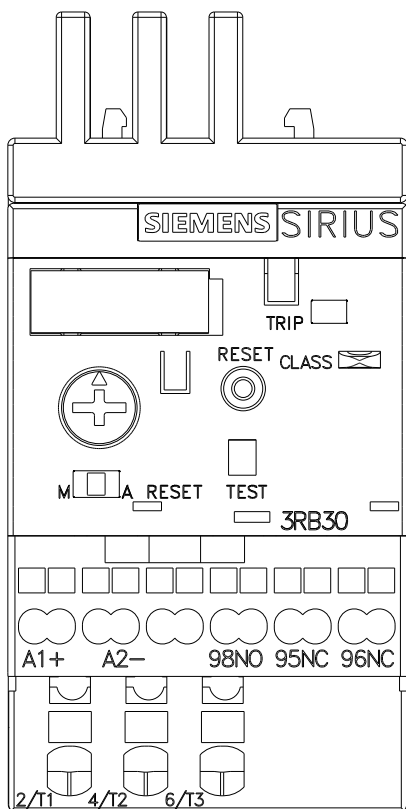
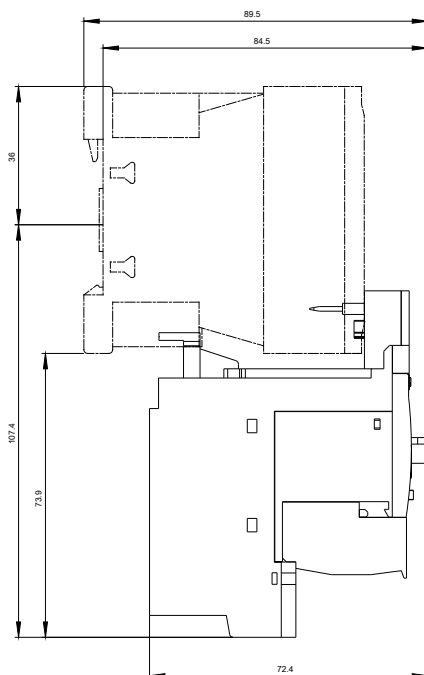
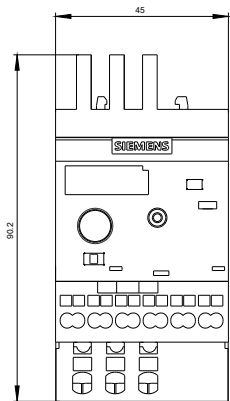
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30161RE0>

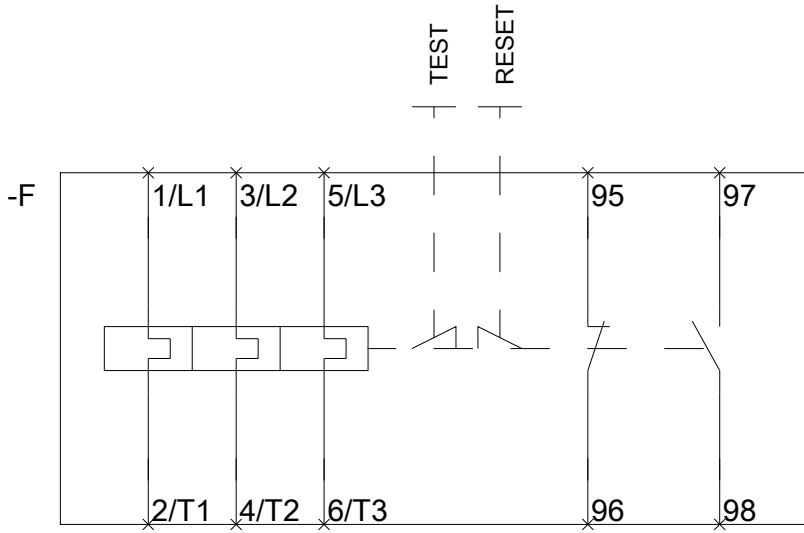
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RB30161RE0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RB30161RE0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB30161RE0&lang=en)





last modified:

11.03.2015