

Overload relay 14...20 A For motor protection Size S0, Class 10  
Contactor mounting Main circuit: screw terminal Auxiliary circuit:  
screw terminal Manual-Automatic-Reset !!! Phased-out product !!!  
Successor is SIRIUS 3RU2 Preferred successor type is >>3RU2126-  
4BB0<<



Figure similar

|                                                           |                        |
|-----------------------------------------------------------|------------------------|
| Product brand name                                        | SIRIUS                 |
| Product designation                                       | thermal overload relay |
| General technical data                                    |                        |
| Size of overload relay                                    | S0                     |
| Size of contactor can be combined company-specific        | S0                     |
| Power loss [W] total typical                              | 6 W                    |
| Insulation voltage with degree of pollution 3 rated value | 690 V                  |
| Surge voltage resistance rated value                      | 6 kV                   |
| Protection class IP                                       |                        |
| • on the front                                            | IP20                   |
| Shock resistance                                          | 8g / 10 ms             |
| Type of protection                                        | DMT 98 ATEX G 001      |
| Protection against electrical shock                       | finger-safe            |
| Reference code acc. to DIN EN 81346-2                     | F                      |
| Ambient conditions                                        |                        |
| Installation altitude at height above sea level           |                        |

|                                    |                |
|------------------------------------|----------------|
| • maximum                          | 2 000 m        |
| <b>Ambient temperature</b>         |                |
| • during operation                 | -20 ... +70 °C |
| • during storage                   | -55 ... +80 °C |
| • during transport                 | -55 ... +80 °C |
| Relative humidity during operation | 100 %          |

#### Main circuit

|                                                                                   |             |
|-----------------------------------------------------------------------------------|-------------|
| <b>Number of poles for main current circuit</b>                                   | 3           |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 14 ... 20 A |
| <b>Operating voltage</b>                                                          |             |
| • at AC-3 rated value maximum                                                     | 690 V       |

#### 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 CO contacts</b>                            |        |
| • for auxiliary contacts                                | 0      |
| <b>Operating current of auxiliary contacts at AC-15</b> |        |
| • at 24 V                                               | 3 A    |
| • at 110 V                                              | 3 A    |
| • at 120 V                                              | 3 A    |
| • at 125 V                                              | 3 A    |
| • at 230 V                                              | 2 A    |
| • at 400 V                                              | 1 A    |
| <b>Operating current of auxiliary contacts at DC-13</b> |        |
| • at 24 V                                               | 1 A    |
| • at 110 V                                              | 0.22 A |
| • at 125 V                                              | 0.22 A |
| • at 220 V                                              | 0.11 A |

#### Protective and monitoring functions

|                   |          |
|-------------------|----------|
| <b>Trip class</b> | CLASS 10 |
|-------------------|----------|

#### Short-circuit protection

|                                                                 |                              |
|-----------------------------------------------------------------|------------------------------|
| <b>Design of the fuse link</b>                                  |                              |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 6 A, quick: 10 A |

#### Installation/ mounting/ dimensions

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting position</b> | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| <b>Height</b>            | 97 mm                                                                                                                   |
| <b>Width</b>             | 45 mm                                                                                                                   |
| <b>Depth</b>             | 96 mm                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <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> | 0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>6 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>6 mm |

|                                                                                                                                                                                                                                               |                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connections/Terminals</b>                                                                                                                                                                                                                  |                                                                                                                                                                                               |
| <b>Product function</b>                                                                                                                                                                                                                       |                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>                                                                                                                                      | No                                                                                                                                                                                            |
| <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>                                                                                                             | screw-type terminals<br>screw-type terminals                                                                                                                                                  |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                           |                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for main contacts</li> </ul>           | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br>2x (16 ... 12), 2x (14 ... 8) |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                           |                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for auxiliary contacts</li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14)              |

|                               |
|-------------------------------|
| <b>Certificates/approvals</b> |
|-------------------------------|

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



| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



[Miscellaneous](#)

[Confirmation](#)

## Further information

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU1126-4BB0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1126-4BB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1126-4BB0>

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

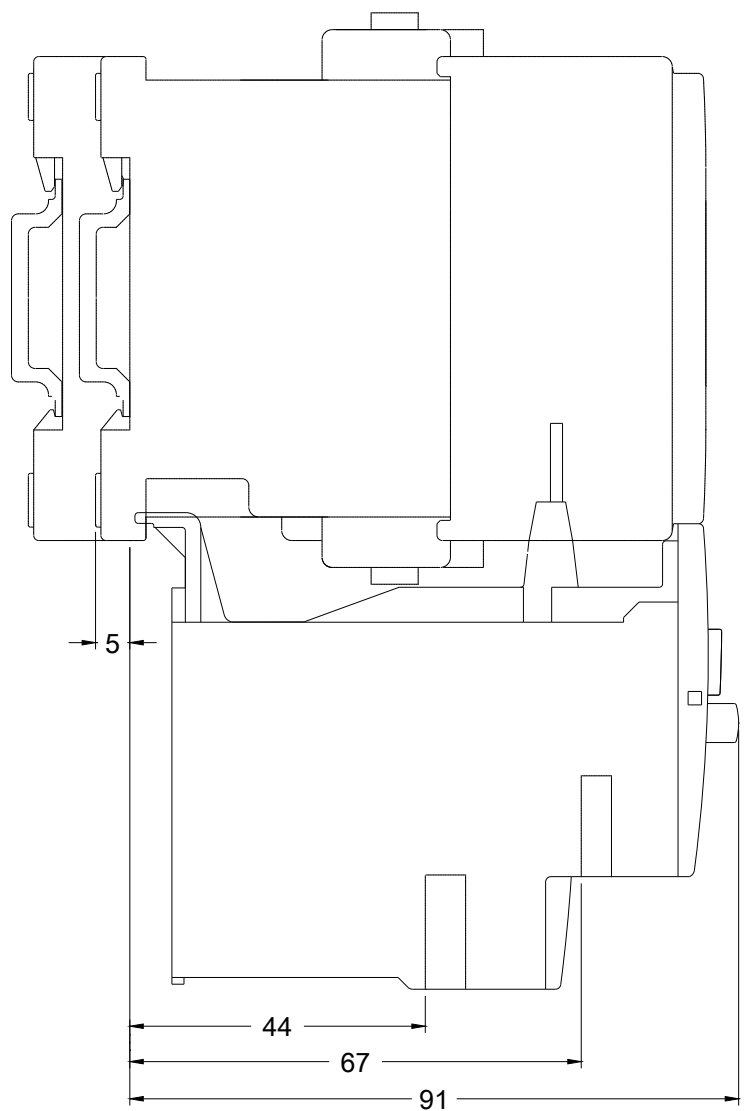
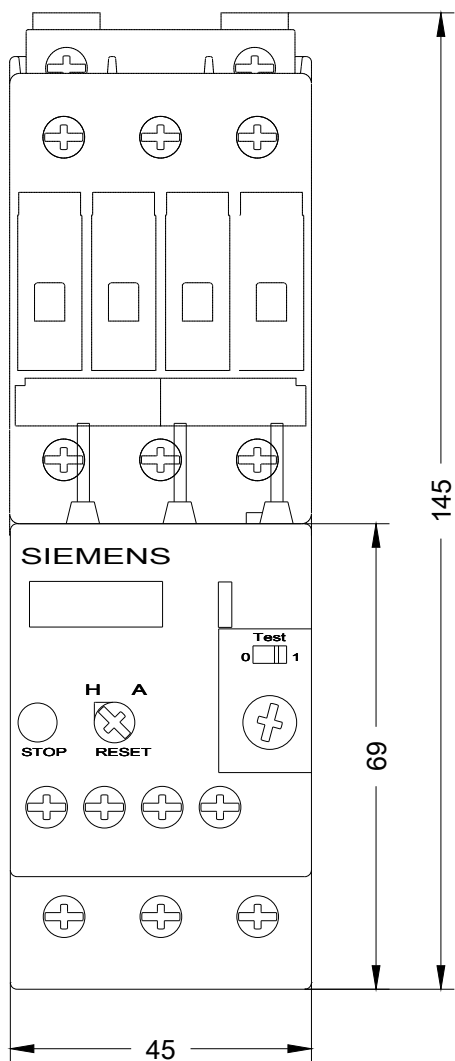
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU1126-4BB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1126-4BB0&lang=en)

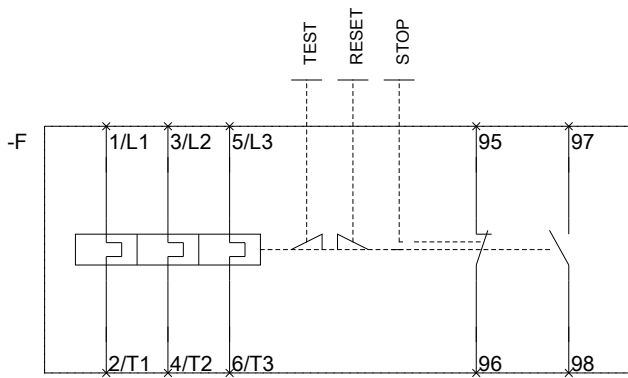
**Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1126-4BB0/char>

**Further characteristics (e.g. electrical endurance, switching frequency)**

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU1126-4BB0&objecttype=14&gridview=view1>





last modified:

09/25/2018 