



OVERLOAD RELAY, 9...12 A, 1NO+1NC,  
SIZE S2, CLASS 10,  
FOR CONTACTOR MOUNTING,  
AUXILIARY SWITCH: CAGE CLAMP

### General technical data:

|                                                                         |    |                        |
|-------------------------------------------------------------------------|----|------------------------|
| product brand name                                                      |    | SIRIUS                 |
| Product designation                                                     |    | thermal overload relay |
| Size of overload relay                                                  |    | S2                     |
| Number of poles / for main current circuit                              |    | 3                      |
| Product function / removable terminal for auxiliary and control circuit |    | No                     |
| 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                                                |    | 8g / 10 ms             |
| Ambient temperature                                                     |    |                        |
| • during transport                                                      | °C | -55 ... +80            |
| • during storage                                                        | °C | -55 ... +80            |
| • during operating                                                      | °C | -20 ... +70            |
| Relative humidity / during operating phase / maximum                    | %  | 100                    |
| Type of protection                                                      |    | DMT 98 ATEX G 001      |
| Active power loss / total / typical                                     | W  | 9                      |
| Size of the contactor / can be combined / company-specific              |    | S2                     |

|                                                                                                                                                    |                            |                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Main circuit:</b>                                                                                                                               |                            |                                                                                                                         |
| <b>Operating current / of the fuse link / rated value</b>                                                                                          | A                          | 35                                                                                                                      |
| <b>Service power / at AC-3</b><br>• at 400 V                                                                                                       | kW                         | 5.5                                                                                                                     |
| <b>Type of assignment</b>                                                                                                                          |                            | 2                                                                                                                       |
| <b>Auxiliary circuit:</b>                                                                                                                          |                            |                                                                                                                         |
| <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, quick: 10 A                                                                                            |
| <b>Operating current / of the auxiliary contacts / at AC-15</b><br>• at 24 V<br>• at 110 V<br>• at 120 V<br>• at 125 V<br>• at 230 V<br>• at 400 V | A<br>A<br>A<br>A<br>A<br>A | 3<br>3<br>3<br>3<br>2<br>1                                                                                              |
| <b>Operating current / of the auxiliary contacts / at DC-13</b><br>• at 24 V<br>• at 110 V<br>• at 125 V<br>• at 220 V                             | A<br>A<br>A<br>A           | 1<br>0.22<br>0.22<br>0.11                                                                                               |
| <b>Protection function:</b>                                                                                                                        |                            |                                                                                                                         |
| <b>Trip class</b>                                                                                                                                  |                            | CLASS 10                                                                                                                |
| <b>Adjustable response current</b><br>• of the current-dependent overload release                                                                  | A                          | 9 ... 12.5                                                                                                              |
| <b>Installation/mounting/dimensions:</b>                                                                                                           |                            |                                                                                                                         |
| <b>Mounting type</b>                                                                                                                               |                            | direct mounting                                                                                                         |
| <b>mounting position</b>                                                                                                                           |                            | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| <b>Depth</b>                                                                                                                                       | mm                         | 118                                                                                                                     |
| <b>Height</b>                                                                                                                                      | mm                         | 105                                                                                                                     |
| <b>Width</b>                                                                                                                                       | mm                         | 55                                                                                                                      |
| <b>Connections:</b>                                                                                                                                |                            |                                                                                                                         |
| <b>Design of the electrical connection</b><br>• for main current circuit                                                                           |                            | screw-type terminals                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cage Clamp terminals                                                                                                                                                                                                                                                                                                                               |
| <b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> <li>• stranded</li> </ul> </li> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• without conductor final cutting</li> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> | 2x (0.75 ... 16 mm <sup>2</sup> )<br><br>2x (0.75 ... 16 mm <sup>2</sup> ), 0.75 ... 25 mm <sup>2</sup><br>2x (0.75 ... 25 mm <sup>2</sup> ), 0.75 ... 35 mm <sup>2</sup><br>2x (18 ... 3), 1x (18 ... 1)<br><br>2x (0.5 ... 2.5 mm <sup>2</sup> )<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (20 ... 14) |

#### Certificates/approvals:

##### General Product Approval



##### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

##### Shipping Approval



##### other

[other](#)

[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/industrial-controls/mall>

##### Cax online generator:

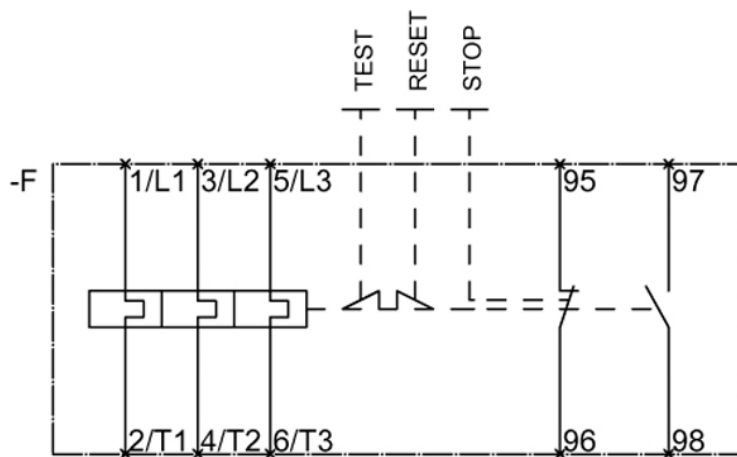
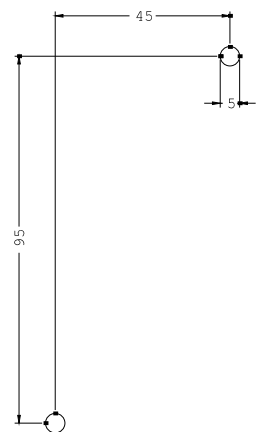
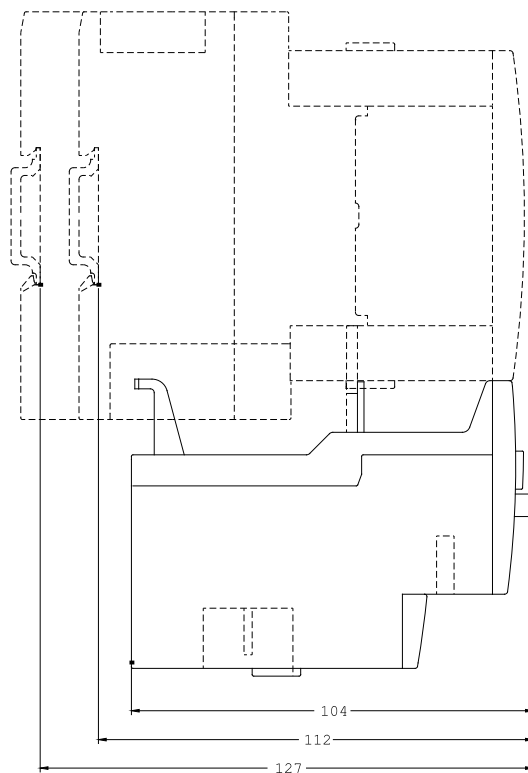
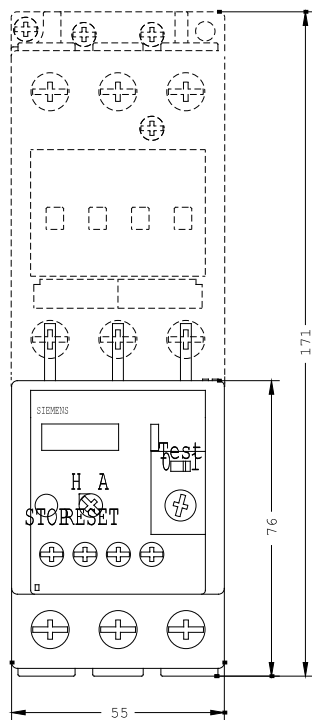
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RU1136-1KD0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RU1136-1KD0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1136-1KD0)



last change:

Mar 17, 2014