

OVERLOAD RELAY, 22...32 A, 1NO+1NC, SIZE S2, CLASS 10, FOR CONTACTOR MOUNTING, AUXILIARY SWITCH: CAGE CLAMP



Figure similar

|                                                           |                        |
|-----------------------------------------------------------|------------------------|
| product brandname                                         | SIRIUS                 |
| Product designation                                       | thermal overload relay |
| General technical data                                    |                        |
| Size of overload relay                                    | S2                     |
| Size of contactor can be combined company-specific        | S2                     |
| Power loss [W] total typical                              | 9 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            |
| Equipment marking acc. to DIN EN 81346-2                  | F                      |
| Ambient conditions                                        |                        |

|                                                                                   |                                                                                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Installation altitude at height above sea level maximum</b>                    | 2 000 m                                                                                                                 |
| <b>Ambient temperature</b>                                                        |                                                                                                                         |
| • during operation                                                                | -20 ... +70 °C                                                                                                          |
| • during storage                                                                  | -55 ... +80 °C                                                                                                          |
| • during transport                                                                | -55 ... +80 °C                                                                                                          |
| <b>Relative humidity during operation</b>                                         | 100 %                                                                                                                   |
| <b>Main circuit</b>                                                               |                                                                                                                         |
| <b>Number of poles for main current circuit</b>                                   | 3                                                                                                                       |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 22 ... 32 A                                                                                                             |
| <b>Operating voltage</b>                                                          |                                                                                                                         |
| • at AC-3 rated value maximum                                                     | 690 V                                                                                                                   |
| <b>Auxiliary circuit</b>                                                          |                                                                                                                         |
| <b>Number of NC contacts</b>                                                      |                                                                                                                         |
| • for auxiliary contacts                                                          | 1                                                                                                                       |
| <b>Number of NO contacts</b>                                                      |                                                                                                                         |
| • for auxiliary contacts                                                          | 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                                                                                                                  |
| <b>Protective and monitoring functions</b>                                        |                                                                                                                         |
| <b>Trip class</b>                                                                 | CLASS 10                                                                                                                |
| <b>Short-circuit protection</b>                                                   |                                                                                                                         |
| <b>Design of the fuse link</b>                                                    |                                                                                                                         |
| • for short-circuit protection of the auxiliary switch required                   | fuse gL/gG: 6 A, quick: 10 A                                                                                            |
| <b>Installation/ mounting/ dimensions</b>                                         |                                                                                                                         |
| <b>Mounting position</b>                                                          | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Mounting type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | direct mounting |
| <b>Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 105 mm          |
| <b>Width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55 mm           |
| <b>Depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 118 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 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— at the side 6 mm</li> <li>— downwards 0 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 6 mm</li> </ul> </li> </ul> |                 |

| Connections/Terminals                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <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>Cage Clamp 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 2x (0.75 ... 16 mm<sup>2</sup>)</li> <li>— stranded 2x (0.75 ... 25 mm<sup>2</sup>), 0.75 ... 35 mm<sup>2</sup></li> <li>— finely stranded with core end processing 2x (0.75 ... 16 mm<sup>2</sup>), 0.75 ... 25 mm<sup>2</sup></li> </ul> </li> <li>• at AWG conductors for main contacts 2x (18 ... 3), 1x (18 ... 1)</li> </ul> |                                              |
| <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 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>)</li> <li>— finely stranded without core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>)</li> </ul> </li> </ul>                                                                                             |                                              |

- at AWG conductors for auxiliary contacts

2x (20 ... 14)

## Certificates/approvals

### General Product Approval



CCC



CSA



UL



ATEX



IECEx

### Declaration of Conformity



EG-Konf.

[spezielle  
Prüfbescheinigun  
g](#)

[Typprüfbescheinigu  
ng/Werkszeugnis](#)



ABS



BUREAU  
VERITAS



DNV



RINA



RMRS

### Shipping Approval

### other



GL



LRS



RINA



RMRS

[sonstig](#)

[Umweltbestätigung](#)

### other

[Bestätigungen](#)

## 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=3RU1136-4ED0>

### Cax online generator

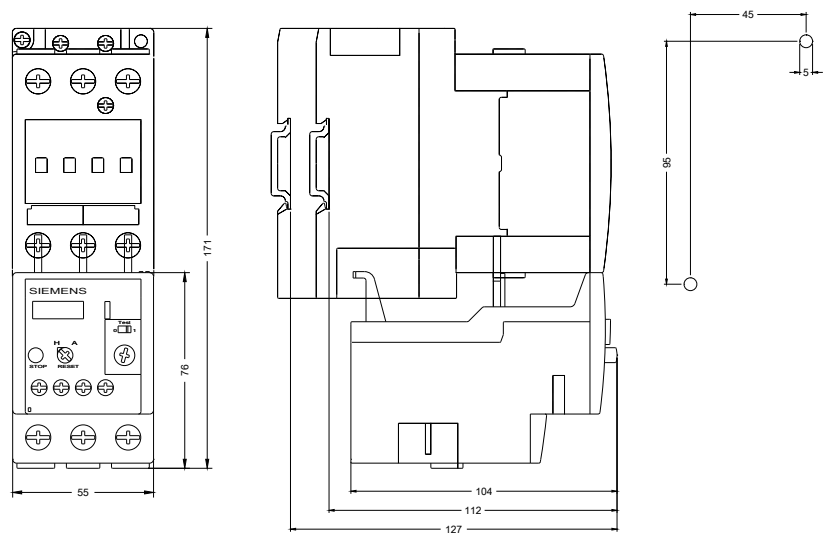
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1136-4ED0>

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

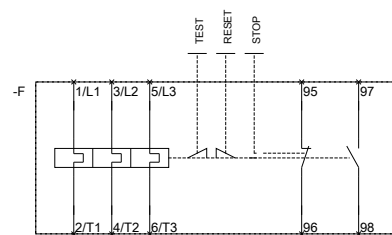
<https://support.industry.siemens.com/cs/ww/en/ps/3RU1136-4ED0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU1136-4ED0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1136-4ED0&lang=en)



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