

OVERLOAD RELAY, 4.5...6.3 A, FOR MOTOR PROTECTION SIZE S0, CLASS 10, CONTACTOR MOUNTING MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL AUTOM. RESET REUSABLE PACKAGING 1 PACK = 88 UNITS

|                     |                        |
|---------------------|------------------------|
| 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       |
| Equipment marking acc. to DIN EN 81346-2                  | F                 |

### Ambient conditions

|                                                         |                |
|---------------------------------------------------------|----------------|
| Installation altitude at height above sea level maximum | 2 000 m        |
| Ambient temperature                                     |                |
| • during operation                                      | -20 ... +70 °C |
| • during storage                                        | -55 ... +80 °C |
| • during transport                                      | -55 ... +80 °C |
| Relative humidity during operation                      | 100 %          |

### Main circuit

|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| Number of poles for main current circuit                                   | 3             |
| Adjustable pick-up value current of the current-dependent overload release | 4.5 ... 6.3 A |
| Operating voltage                                                          |               |
| • at AC-3 rated value maximum                                              | 690 V         |

### Auxiliary circuit

|                          |   |
|--------------------------|---|
| Number of NC contacts    |   |
| • for auxiliary contacts | 1 |
| Number of NO contacts    |   |
| • 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 |

#### 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>Mounting type</b>         | direct mounting                                                                                                         |
| <b>Height</b>                | 97 mm                                                                                                                   |
| <b>Width</b>                 | 45 mm                                                                                                                   |
| <b>Depth</b>                 | 96 mm                                                                                                                   |
| <b>Required spacing</b>      |                                                                                                                         |
| • with side-by-side mounting |                                                                                                                         |
| — forwards                   | 0 mm                                                                                                                    |
| — Backwards                  | 0 mm                                                                                                                    |
| — upwards                    | 0 mm                                                                                                                    |
| — downwards                  | 0 mm                                                                                                                    |
| — at the side                | 0 mm                                                                                                                    |
| • for grounded parts         |                                                                                                                         |
| — forwards                   | 0 mm                                                                                                                    |
| — Backwards                  | 0 mm                                                                                                                    |
| — upwards                    | 0 mm                                                                                                                    |
| — at the side                | 6 mm                                                                                                                    |
| — downwards                  | 0 mm                                                                                                                    |
| • for live parts             |                                                                                                                         |

|               |      |
|---------------|------|
| — forwards    | 0 mm |
| — Backwards   | 0 mm |
| — upwards     | 0 mm |
| — downwards   | 0 mm |
| — at the side | 6 mm |

## 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>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)              |

## Certificates/approvals

| General Product Approval | For use in hazardous locations | Declaration of Conformity |
|--------------------------|--------------------------------|---------------------------|
|--------------------------|--------------------------------|---------------------------|



CCC



CSA



UL



ATEX



EG-Konf.

| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

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ABS



BUREAU  
VERITAS



DNV



GL

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



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#### 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=3RU1126-1GB0-Z X95>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1126-1GB0-Z X95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1126-1GB0-Z X95>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU1126-1GB0-Z X95&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1126-1GB0-Z X95&lang=en)

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