### Product brand name
SIRIUS

### Product designation
thermal overload relay

#### General technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size of overload relay</strong></td>
<td>S00</td>
</tr>
<tr>
<td><strong>Size of contactor can be combined company-specific</strong></td>
<td>S00</td>
</tr>
<tr>
<td><strong>Power loss [W] total typical</strong></td>
<td>6.6 W</td>
</tr>
<tr>
<td><strong>Insulation voltage with degree of pollution 3 rated value</strong></td>
<td>690 V</td>
</tr>
<tr>
<td><strong>Surge voltage resistance rated value</strong></td>
<td>6 kV</td>
</tr>
<tr>
<td><strong>Protection class IP</strong></td>
<td></td>
</tr>
<tr>
<td>• on the front</td>
<td>IP20</td>
</tr>
<tr>
<td><strong>Shock resistance</strong></td>
<td>8g / 10 ms</td>
</tr>
<tr>
<td><strong>Type of protection</strong></td>
<td>DMT 98 ATEX G 001</td>
</tr>
<tr>
<td><strong>Protection against electrical shock</strong></td>
<td>finger-safe</td>
</tr>
<tr>
<td><strong>Reference code acc. to DIN EN 81346-2</strong></td>
<td>F</td>
</tr>
</tbody>
</table>

#### Ambient conditions

<table>
<thead>
<tr>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation altitude at height above sea level</td>
</tr>
</tbody>
</table>
### 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**: 1.1 ... 1.6 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
- **Number of CO contacts**
  - for auxiliary contacts: 0
- **Operating current of auxiliary contacts at AC-15**
  - 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
- **Operating current of auxiliary contacts at DC-13**
  - 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
- **Trip class**: CLASS 10
- **Short-circuit protection**
  - **Design of the fuse link**
    - for short-circuit protection of the auxiliary switch required
    - fuse gL/gG: 6 A, quick: 10 A

### Installation/ mounting/ dimensions
- **Mounting position**
  - with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
- **Mounting type**: Contactor mounting
- **Height**: 87 mm
- **Width**: 45 mm
### Depth
78 mm

### Required spacing

- **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
  - downwards: 6 mm
  - at the side: 0 mm

- **for live parts**
  - forwards: 0 mm
  - backwards: 0 mm
  - upwards: 0 mm
  - downwards: 0 mm
  - at the side: 6 mm

### Connections/ Terminals

#### Product function
- removable terminal for auxiliary and control circuit: No

#### Type of electrical connection
- for main current circuit: screw-type terminals
- for auxiliary and control current circuit: screw-type terminals

#### Type of connectable conductor cross-sections
- **for main contacts**
  - solid: 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² max.
  - finely stranded with core end processing: 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
- **at AWG conductors for main contacts**
  - 2x (20 ... 16), 2x (18 ... 14), 2x 12

#### Type of connectable conductor cross-sections
- **for auxiliary contacts**
  - solid: 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
  - finely stranded with core end processing: 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
- **at AWG conductors for auxiliary contacts**
  - 2x (20 ... 16), 2x (18 ... 14)
<table>
<thead>
<tr>
<th>General Product Approval</th>
<th>For use in hazardous locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCC</td>
<td></td>
</tr>
<tr>
<td>CSA</td>
<td></td>
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<tr>
<td>UL</td>
<td></td>
</tr>
<tr>
<td>EAC</td>
<td></td>
</tr>
<tr>
<td>Ex</td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
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<table>
<thead>
<tr>
<th>Declaration of Conformity</th>
<th>Test Certificates</th>
<th>Marine / Shipping</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE</td>
<td>Miscellaneous</td>
<td>EG-Konf.</td>
</tr>
<tr>
<td>Type Test Certificates/Test Report</td>
<td>Special Test Certificate</td>
<td>ABS</td>
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</tbody>
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<tr>
<th>Marine / Shipping</th>
<th>other</th>
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<tbody>
<tr>
<td>LRS</td>
<td>Miscellaneous</td>
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<tr>
<td>PRS</td>
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<tr>
<td>RINA</td>
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</tr>
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<td>RMRS</td>
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<td>M V S</td>
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<tbody>
<tr>
<td>Confirmation</td>
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</table>

**Further information**

- **Information- and Downloadcenter (Catalogs, Brochures,...)**
  - [www.siemens.com/sirius/catalogs](http://www.siemens.com/sirius/catalogs)

- **Industry Mall (Online ordering system)**

- **Cax online generator**

- **Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
  - [https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1AB0](https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1AB0)

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

- **Characteristic: Tripping characteristics, \( I^2t \), Let-through current**
  - [https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1AB0/char](https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1AB0/char)

- **Further characteristics (e.g. electrical endurance, switching frequency)**
UEBERLASTRELAIS FUER MOTORSCHUTZ

- F

1/L1 3/L2 5/L3

95 97

2/T1 4/T2 6/T3

96 98 A2 14/22

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