



OVERLOAD RELAY 36...50 A FOR MOTOR PROTECTION  
 SIZE S3,  
 CLASS 10 FOR CONTACTOR MOUNTING MAIN CIRCUIT:  
 SCREW CONN. AUX. CIRCUIT: SCREW CONN. MANUAL-  
 AUTOMATIC-RESET

**General technical data:**

|  |    |                        |
|--|----|------------------------|
| <b>product brand name</b>  |    | SIRIUS                 |
| <b>Product designation</b>   |    | thermal overload relay |
| <b>Size of overload relay</b>  |    | S3                     |
| <b>Number of poles / for main current circuit</b>                              |    | 3                      |
| <b>Product function / removable terminal for auxiliary and control circuit</b> |    | No                     |
| <b>Impulse voltage resistance / rated value</b>                                | kV | 8                      |
| <b>Protection class IP / on the front</b>                                      |    | IP20                   |
| <b>Protection against electrical shock</b>                                     |    | finger-safe            |
| <b>Installation altitude / at a height over sea level / maximum</b>            | m  | 2,000                  |
| <b>Resistance against shock</b>  |    | 8g / 10 ms             |
| <b>Ambient temperature</b>   |    |                        |
| • during transport   | °C | -55 ... +80            |
| • during storage   | °C | -55 ... +80            |
| • during operating   | °C | -20 ... +70            |
| <b>Relative humidity / during operating phase / maximum</b>                    | %  | 100                    |
| <b>Type of protection</b>  |    | DMT 98 ATEX G 001      |
| <b>Active power loss / total / typical</b>                                     | W  | 16.5                   |
| <b>Size of the contactor / can be combined / company-specific</b>              |    | S3                     |

| Main circuit:                                      |    |     |
|--|----|-----|
| Operating current / of the fuse link / rated value | A  | 125 |
| Service power / at AC-3                            |    |     |
| • at 400 V   | kW | 22  |
| Type of assignment                                 |    | 2   |

| Auxiliary circuit:  |   |                              |
|---|---|------------------------------|
| Number of NC contacts / for auxiliary contacts  |   | 1                            |
| Number of NO contacts / for auxiliary contacts  |   | 1                            |
| Number of changeover contacts / for auxiliary contacts                                    |   | 0                            |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required |   | fuse gL/gG: 6 A, quick: 10 A |
| Operating current / of the auxiliary contacts / at AC-15                                  |   |                              |
| • at 24 V   | A | 3                            |
| • at 110 V  | A | 3                            |
| • at 120 V  | A | 3                            |
| • at 125 V  | A | 3                            |
| • at 230 V  | A | 2                            |
| • at 400 V  | A | 1                            |
| Operating current / of the auxiliary contacts / at DC-13                                  |   |                              |
| • at 24 V   | A | 1                            |
| • at 110 V  | A | 0.22                         |
| • at 125 V  | A | 0.22                         |
| • at 220 V  | A | 0.11                         |

| Protection function:                        |   |           |
|---|---|-----------|
| Trip class                                  |   | CLASS 10  |
| Adjustable response current                 |   |           |
| • of the current-dependent overload release | A | 36 ... 50 |

| Installation/mounting/dimensions: |    |   |
|-----------------------------------|----|---|
| Mounting type                     |    | direct mounting   |
| mounting position                 |    | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| Depth                             | mm | 140   |
| Height                            | mm | 120   |
| Width                             | mm | 70  |

| Connections:                        |  |                      |
|-------------------------------------|--|----------------------|
| Design of the electrical connection |  |                      |
| • for main current circuit          |  | screw-type terminals |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>   | screw-type 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>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> | 2x (2.5 ... 16 mm <sup>2</sup> )<br><br>2x (2.5 ... 35 mm <sup>2</sup> ), 2.5 ... 50 mm <sup>2</sup><br><br>2x (10 ... 50 mm <sup>2</sup> ), 10 ... 70 mm <sup>2</sup><br><br>2x (10 ... 1/0), 1x (10 ... 2/0)<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br><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

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



RINA

#### Shipping Approval

other



RMRS

[other](#)

[Environmental Confirmations](#)

### Further information:

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

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

#### Industry Mall (Online ordering system)

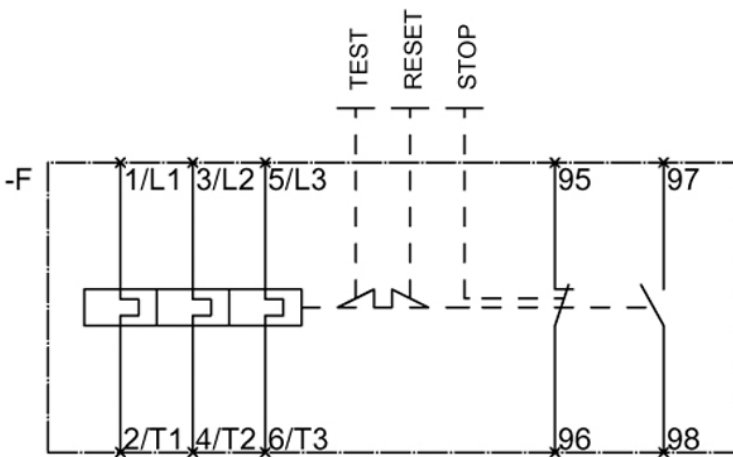
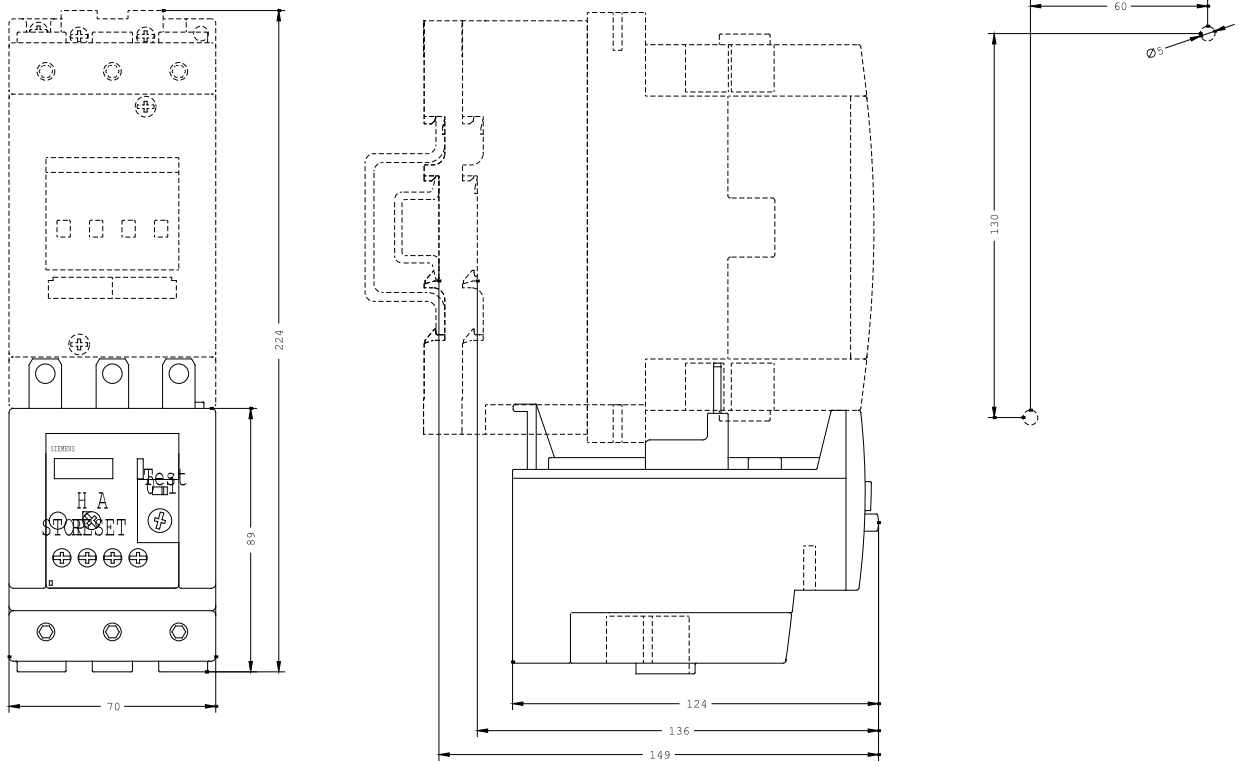
<http://www.siemens.com/industrial-controls/mall>

#### Cax online generator:

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

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

<http://support.automation.siemens.com/WW/view/en/3RU1146-4HB0/all>



last change:

Mar 17, 2014