SIEMENS

## Product data sheet 3RU1126-1FB0


| General technical details: | | |
|---|---|---|
| **Product brand name** | | SIRIUS |
| **Product designation** | | thermal overload relay |
| **Protection class IP / frontal/front side** | | IP20 |
| **Insulation voltage / with degree of pollution 3 / rated value** | V | 690 |
| **Altitude of installation site / at a height over sea level / maximum** | m | 2,000 |
| **Ambient temperature** | | |
| • during the operating phase | °C | -20 … 70 |
| • during storage | °C | -55 … 80 |
| • during transport | °C | -55 … 80 |
| **Relative humidity / during the operating phase / maximum** | % | 100 |
| **Resistance against shock** | | 8g / 10 ms |
| **Impulse voltage resistance / rated value** | kV | 6 |
| **Real loss power / total / typical** | W | 6 |
| **Item designation** | | |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | F |
| • according to DIN EN 61346-2 | | F |
| **Operating current / of the fuse link / rated value** | A | 20 |
| **Trip class** | | CLASS 10 |

| | | |
|---|---|---|
| **Type of assignement** | | 2 |
| **Type of protection** | | DMT 98 ATEX G 001 |
| **Size of overload relay** | | S0 |
| **Size of the contactor / can be combined / company-specific** | | S0 |
| **Protection against electrical shock** | | finger-safe |

| **Main circuit:** | | |
|---|---|---|
| **Number of poles / for main current circuit** | | 3 |
| **Operating voltage / at 3 AC / rated value** | | |
| • maximum | V | 690 |
| **Service power / at AC-3** | | |
| • at 400 V | kW | 1.5 |
| **Adjustable response current** | | |
| • of the current-dependent overload release | A | 3.5 … 5 |

| **Auxiliary circuit:** | | |
|---|---|---|
| **Contact reliability / of the auxiliary contacts** | | acceptability for PLC control (17 V, 5 mA) |
| **Number of NC contacts** | | 1 |
| **Number of NO contacts** | | 1 |
| **Number of change-over switches** | | 0 |
| **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 |

| **Short-circuit:** | | |
|---|---|---|
| **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:** | | |
|---|---|---|
| **built in orientation** | | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| **Type of fixing/fixation** | | direct mounting |

| | | |
|---|---|---|
| **Height** | mm | 97 |
| **Width** | mm | 45 |
| **Depth** | mm | 96 |
| **distance, to be maintained, to the ranks assembly** | | |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 0 |
| **distance, to be maintained, to earthed part** | | |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 6 |
| **distance, to be maintained, conductive elements** | | |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 6 |

## Connection type:

| | | |
|---|---|---|
| **Product function** | | |
| • removable terminal for auxiliary and control circuit | | No |
| **design of the electrical connection** | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| **Type of the connectable conductor cross-section** | | |
| • for main contacts | | |
| • unifilar | | 2 x (1 ... 2.5 mm2), 2 x (2.5 ... 6 mm2), max. 2 x (2.5 ... 10 mm2) |
| • stranded wire | | 2 x (1 ... 2.5 mm2), 2 x (2.5 ... 6 mm2), max. 2 x (2.5 ... 10 mm2) |
| • stranded wire | | |
| • with conductor end processing | | 2x (1 ... 2.5 mm2), 2x (2.5 ... 6 mm2) |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 1.5 mm2), 2x (0.75 ... 2.5 mm2) |
| • finely stranded | | |
| • with wire end processing | | 2x (0.5 ... 1.5 mm2), 2x (0.75 ... 2.5 mm2) |
| • without conductor final cutting | | 2x (0,5 ... 1,5 mm2), 2x (0,75 ... 2,5 mm2) |

| | | |
|---|---|---|
| • at AWG-conductors | | |
| • for main contacts | | 2x (14 ... 10) |
| • for auxiliary contacts | | 2x (18 ... 14) |
| **Conductor cross section that can be connected** | | |
| • for main contacts | | |
| • unifilar | mm² | 1 … 10 |
| • stranded wire | mm² | 1 … 10 |
| • stranded wire | | |
| • with conductor end processing | mm² | 1 … 6 |
| • for auxiliary contact | | |
| • unifilar | mm² | 0.5 … 2.5 |
| • stranded wire | | |
| • with conductor end processing | mm² | 0.5 … 2.5 |
| • without conductor final cutting | mm² | 0.5 … 2.5 |
| **AWG number / as coded connectable conductor cross-section** | | |
| • for main contacts / minimum | | 14 |
| • for auxiliary contact | | 18 … 14 |

## Certificates/approvals:

| | | |
|---|---|---|
| **verification of suitability** | | CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS |
| **varification of suitability / ATEX** | | Yes |

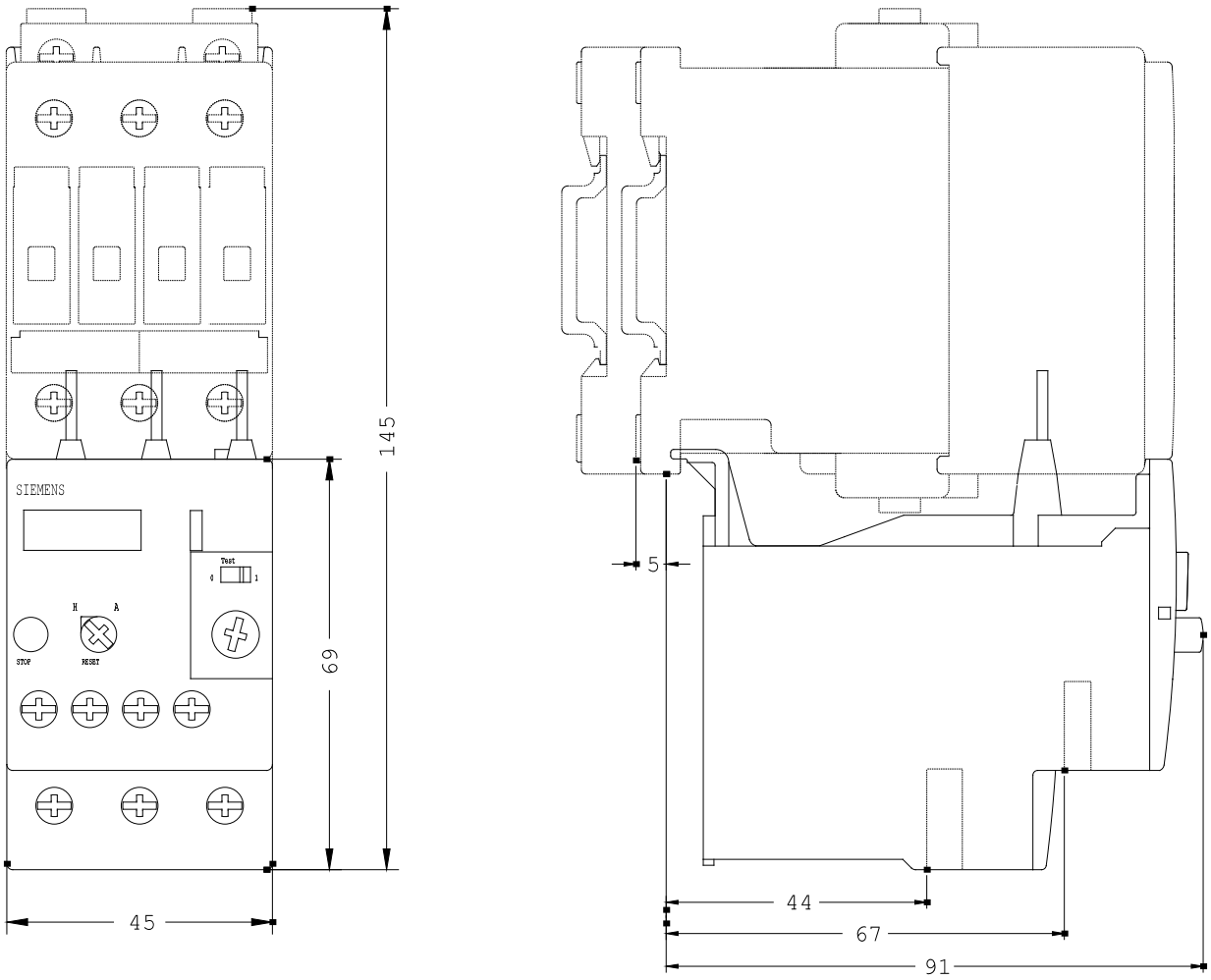
## Further information:

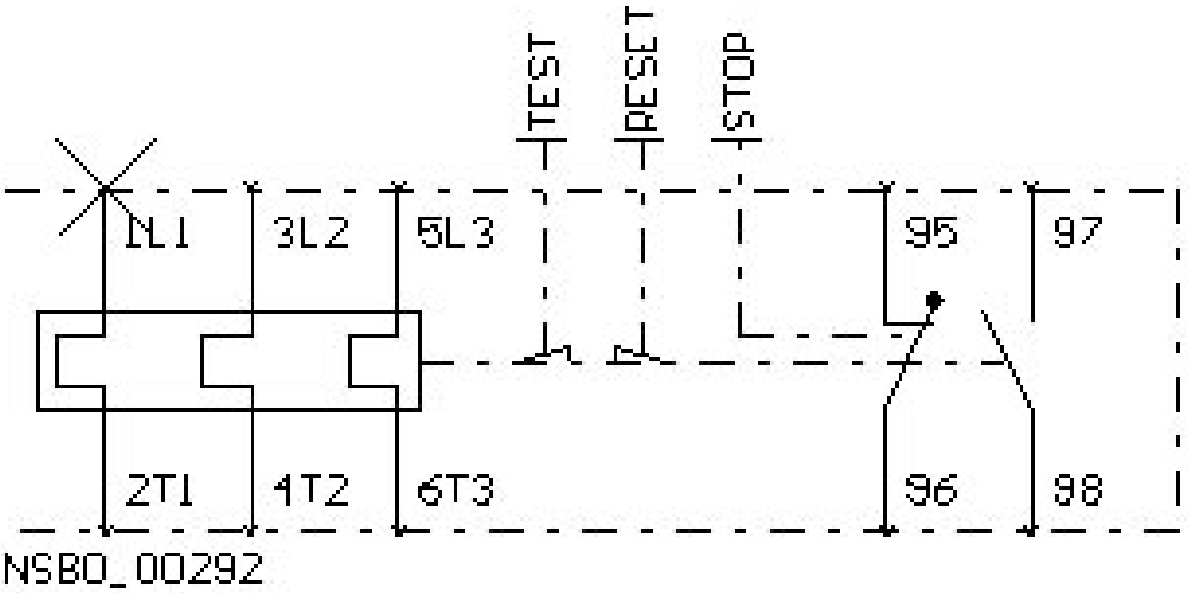
**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/industrial-controls/catalogs

**Global Industry Mall (Online ordering system)**
http://www.siemens.com/industrial-controls/mall

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3RU1126-1FB0/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1126-1FB0



**last change:** Jun 14, 2010