



OVERLOAD RELAY 4.5...6.3 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

| General technical data:   |     |                             |
|---|-----|-----------------------------|
| product brand name  |     | SIRIUS                      |
| product designation   |     | 3RU2 thermal overload relay |
| Size of overload relay  |     | S00                         |
| Number of poles / for main current circuit                              |     | 3                           |
| Product function / removable terminal for auxiliary and control circuit |     | No                          |
| Impulse voltage resistance / rated value                                | kV  | 6                           |
| Protection class IP / on the front                                      |     | IP20                        |
| Protection against electrical shock                                     |     | finger-safe                 |
| Installation altitude / at a height over sea level / maximum            | m   | 2,000                       |
| Resistance against shock  |     | 8g / 11 ms                  |
| Ambient temperature   |     |                             |
| • during transport  | °C  | -55 ... +80                 |
| • during storage  | °C  | -55 ... +80                 |
| • during operating  | °C  | -40 ... +70                 |
| Relative humidity   |     |                             |
| • during operating phase  | / % | 90                          |
| Active power loss / total / typical                                     | W   | 5.7                         |
| Size of the contactor / can be combined / company-specific              |     | S00                         |

| Main circuit:  |   |     |
|--|---|-----|
| Operating current / at AC-3 / at 400 V / rated value | A | 6.3 |
| 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    |
| 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 | 2    |
| • 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 | 4.5 ... 6.3 |

| Safety:   |     |       |
|---|-----|-------|
| Proportion of dangerous failures  |     |       |
| • with high demand rate / according to SN 31920                             | %   | 50    |
| • with low demand rate / according to SN 31920                              | %   | 50    |
| Mean time to failure (MTTF) / with high demand rate                         | a   | 2,280 |
| Failure rate (FIT value) / with low demand rate / according to SN 31920     | FIT | 50    |
| T1 value / for proof test interval or service life / according to IEC 61508 | a   | 20    |

| Installation/mounting/dimensions: |    |                 |
|-----------------------------------|----|-----------------|
| Type of mounting                  |    | direct mounting |
| mounting position                 |    | vertical        |
| Depth                             | mm | 70              |
| Height                            | mm | 76              |
| Width                             | mm | 45              |

## Connections:

### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

### Type of the connectable conductor cross-section

- for AWG conductors / for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14)

## UL/CSA ratings:

### Contact rating designation / for auxiliary contacts / according to UL

B600 / R300

## 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



PRS

### Shipping Approval

### other



RINA



RMRS

[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:

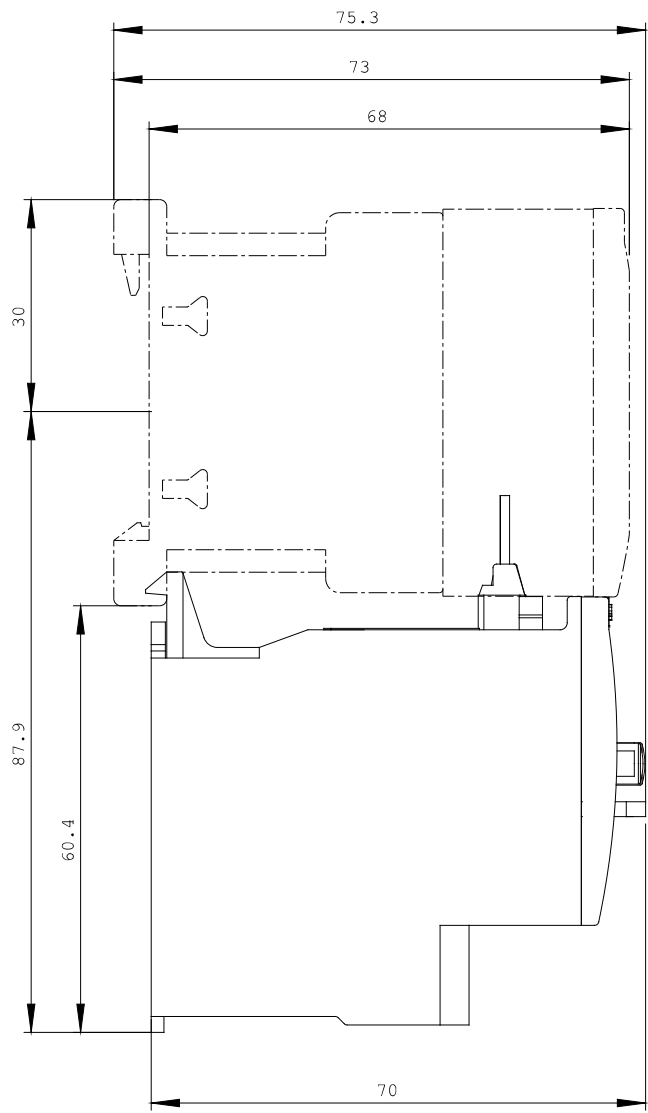
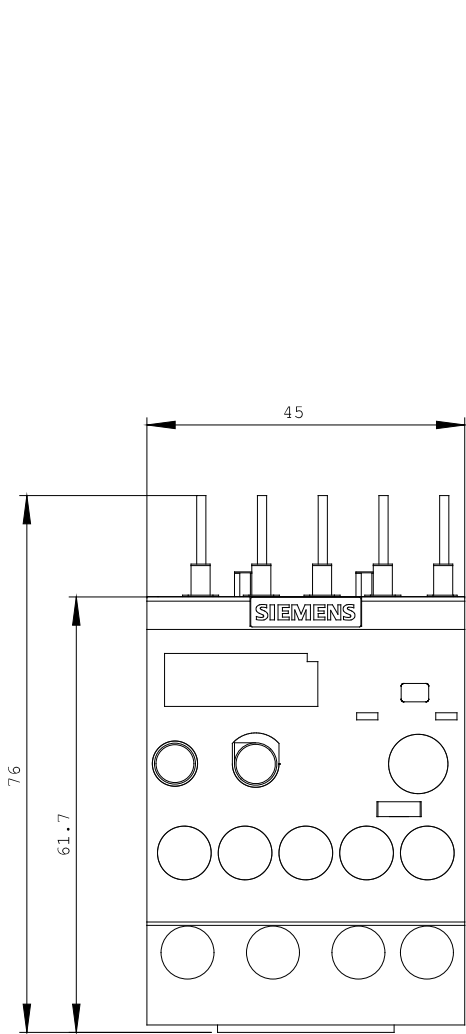
<http://www.siemens.com/cax>

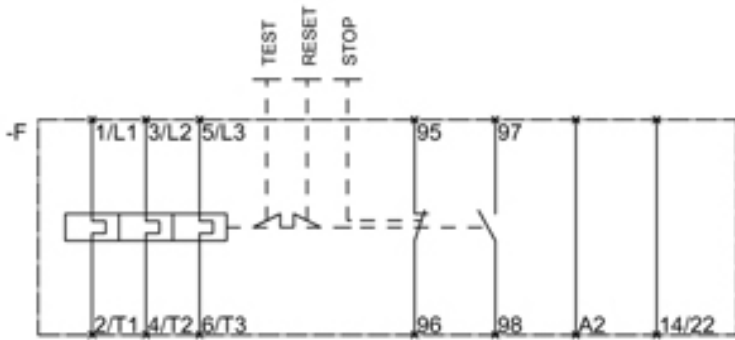
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU2116-1GB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RU2116-1GB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-1GB0)





last change:

Oct 28, 2013