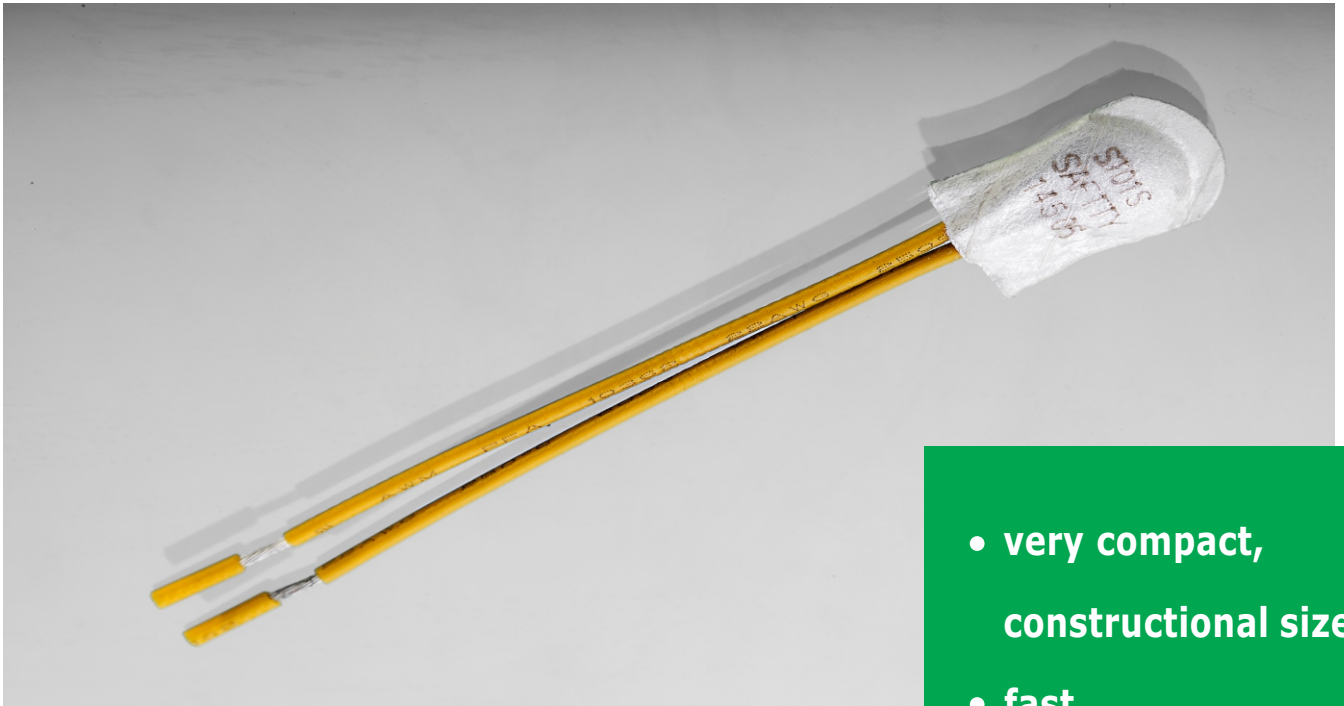


# Thermal Protector ST 01



- very compact, constructional size
- fast response time
- high mechanical stability

## Applications

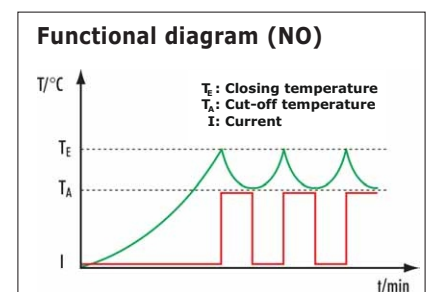
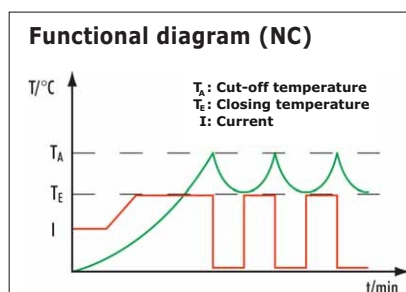
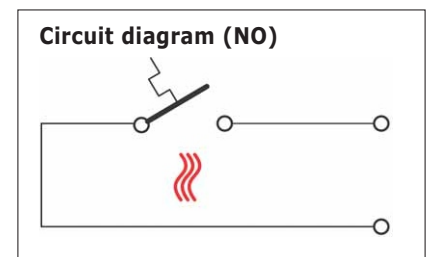
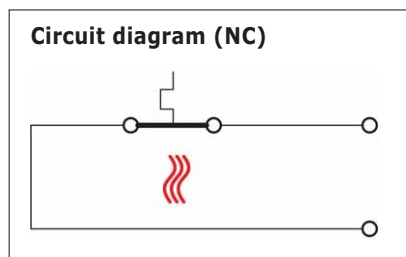
Thermal overload protection of small electrical equipment, small electric motors, electromagnetic coils and others.

After cooling down to the snap-back temperature of the bimetal disk, the protector returns to its initial position automatically. Contact configuration can be normally closed (A) or normally open (B).

## Function

The thermal protector ST 01 operates not current sensitive.

Temperature detection is realized by a bimetal snap disc.



# Technical Data Thermal Protector ST 01

|                                |   |                                 |  |
|--------------------------------|---|---------------------------------|--|
| <b>Switching Capacity</b>      | 250 V / 50 Hz, 5 A                                  | <b>Switching Temperature</b>    | 60°C - 180°C (± 5 K)                                   |
| <b>Minimum Current</b>         | 50 mA   | <b>Max. Ambient Temperature</b> | 200°C  |
| <b>Max. Switching Capacity</b> |   | <b>Approvals</b>                | TÜV, CB nach IEC 60730-2-2; 2-3; 2-9<br>UL 2111<br>CQC |
| <b>10.000 Cycles</b>           | 250 VAC, 3 A cos φ 1,0<br>250 VAC, 1,0 A cos φ 0,45 |                                 |  |
| <b>3.000 Cycles</b>            | 250 VAC, 6,3 A cos φ 1,0                            |                                 |  |
| <b>1.000 Cycles</b>            | 250 VAC, 4,0 A cos φ 0,45                           |                                 |  |

## Technical Informations

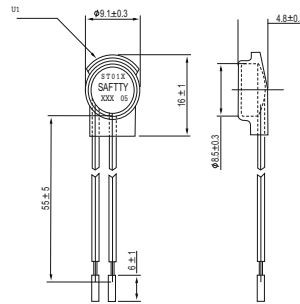
The thermal protector ST 01 is mould-proof enclosed by metal case. Its rectangular homogeneous design provides efficient, fast temperature transfer and simple assembling. Additional, the housing can be insulated by Mylar type (U1) or potting with Epoxy (U4).

For alternative assembling the ST 01 is also available in metal case with screw M4 x 6 (U7) or plastic assembling case (U6).

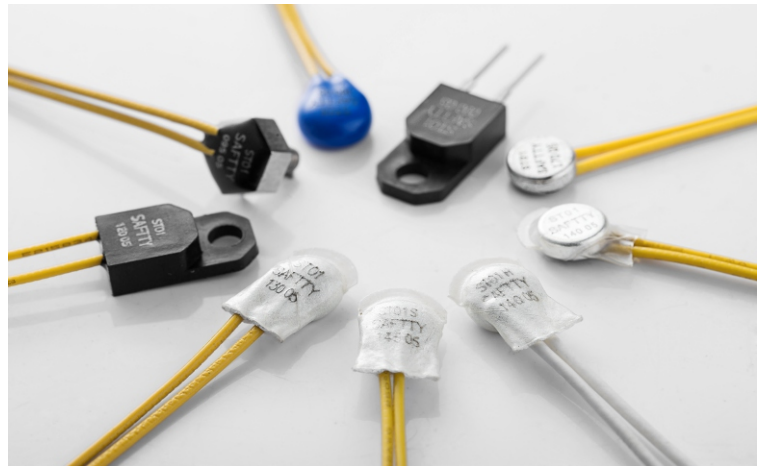
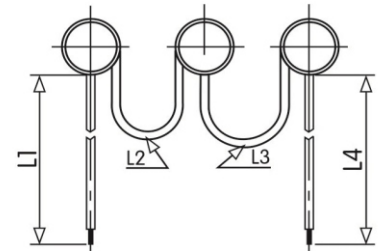
Standart leads length is 55 mm (22 AWG), stripped 6 mm.

Other leads (diameter, stripped etc.) are available on request.

## Dimensions ST 01



## Other Options



## Coding System

ST 01 - X - XXX - XX - XX - XXX - XX

### Isolation:

U1: Mylar  
U2: without  
U4: Epoxy  
⋮

### Lead Length in mm:

Standard: 55 mm  
Stripped length: 6 mm

### Standard Stripped Length:

Y1: AWG 22  
Y2: AWG 24  
⋮

### Tolerance:

05: ± 5 K  
10: ± 10 K  
⋮

**Operating Temperature in C:** 60, 65,... -180° C

**Contact Configuration:** A: normally close  
B: normally open

**Type ST 01**