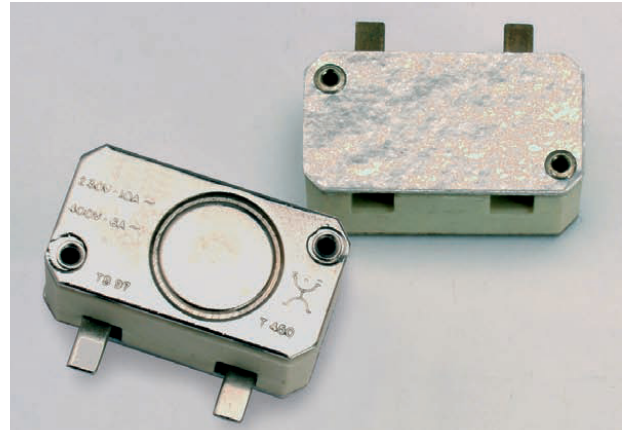


High Temperature Thermal Protector

HIGH TEMP LIMITER TB97

The TB 97 based on reliable bimetal snap-disc technology and is specially designed for application where high temperature are needed, with a maximum switching temperature of 450°C. Even if the operating temperature is more than 400°C the operating temperature is within tolerance of $\pm 5\%$.

When temperature rises and will reach the fixed operating temperature, a contact system will open (NC) or close (NO) the electrical current circuit. After cooling down the contact system return back in its original position (automatically reset function). Within its nominal power conditions the limiter TB 97 works independent from any current supply.



Features

- Very high cutoff temperature (max. 450°C)
- Ceramic body
- Good heat transfer about the homogeneous construction
- High temperature sensitivity
- Fast reaction time
- High contact rating

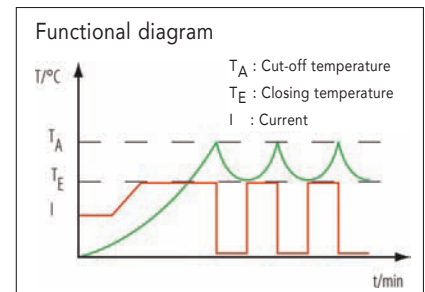
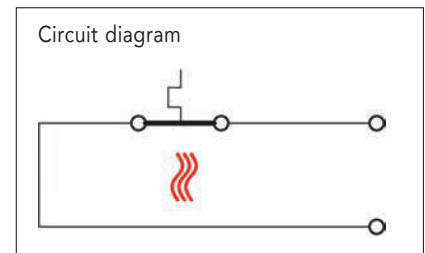
Applications

- Electrical oven, Heating elements, Barbecue equipment
- Irons, Iron machines
- Industrial usage, Welding equipment, Soldering equipment, etc.

Dimensions

- L 27,5 mm x B 15,5 mm x T 12,5 mm

Technical data



Switching Temperature	Power Capacity	Dielectric Strength	Durability	Contact Resistance
180°C - 450°C	10A (230VAC); 6A (400VAC)	3.000 V	10.000 cycles	# 50 mΩ
180°C - 350°C	13A (120VAC)	2.500 V	10.000 cycles	# 50 mΩ

In 5°C steps; tolerance: $\pm 5\%$, reset temperature: $T_A - 100^\circ\text{K}$, $\pm 20\text{K}$. Please inquire about other differentials.

Approvals



60730-1; 2-9



873 Standard

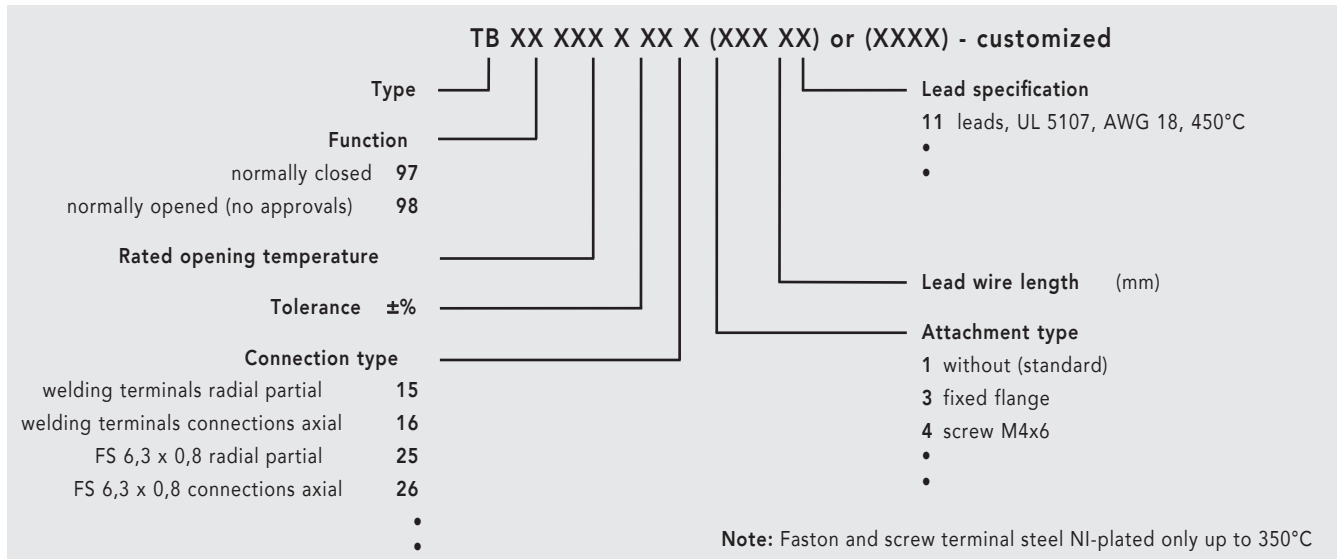


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www.calcoelectric.com

High Temperature Thermal Protector

HIGH TEMP LIMITER TB97

Coding System



Example: TB 97 - 200 - 5 - 15 - 1 - 700 - 11

- Type TB
- Contacts normally closed
- Switch off temperature 200°C
- Tolerance ±5% (190-210°C)

- Reset temperature 100°C±20°C
- Welding terminals, radial
- Lead wire length 700 mm, 10 mm semi stripped
- Lead UL 5107, AWG 18, 600 V, 450°C

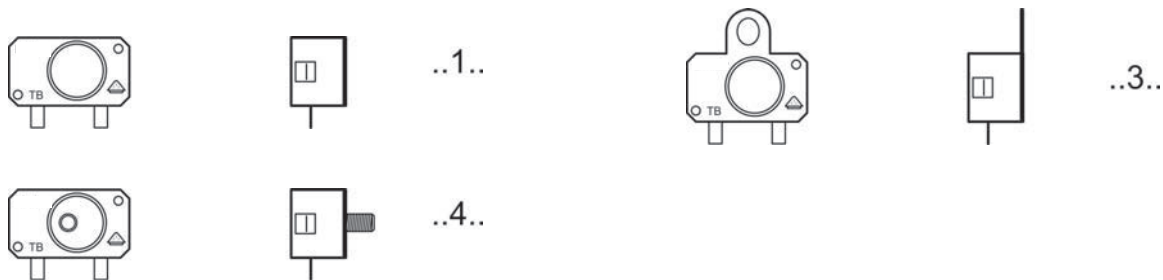
Connection Configuration



Standard connection: welding terminals 11-16
alternative: FS 6,3 x 0,8 straight (21-26)

screwed connection M3 straight (41-46)
welded on leads (65/66): AWG 14-18, others on inquiry

Attachment Type



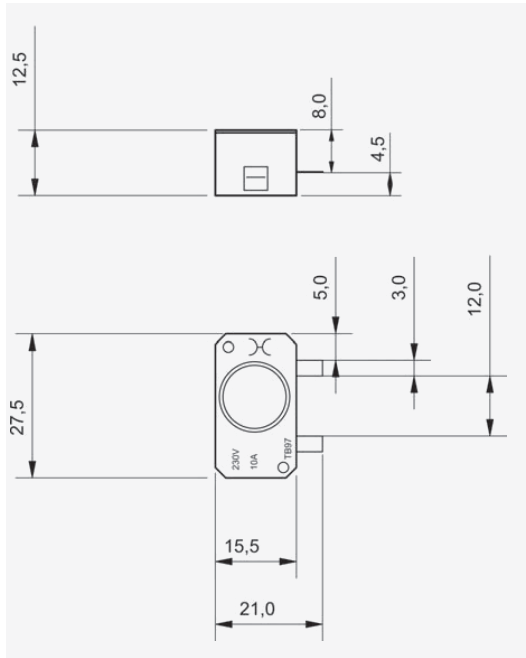
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High Temperature Thermal Protector

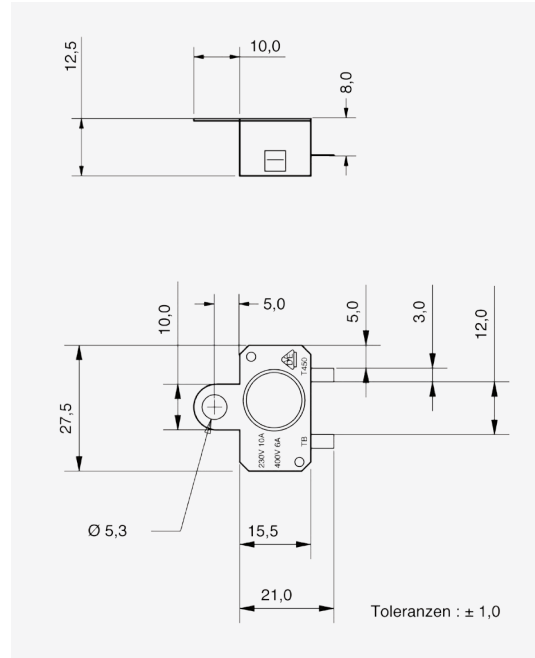
HIGH TEMP LIMITER TB97

Dimensional Drawings

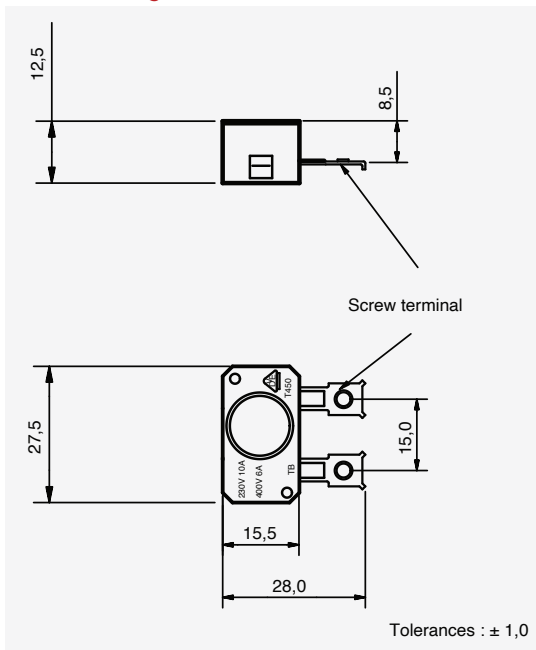
TB97 Standard



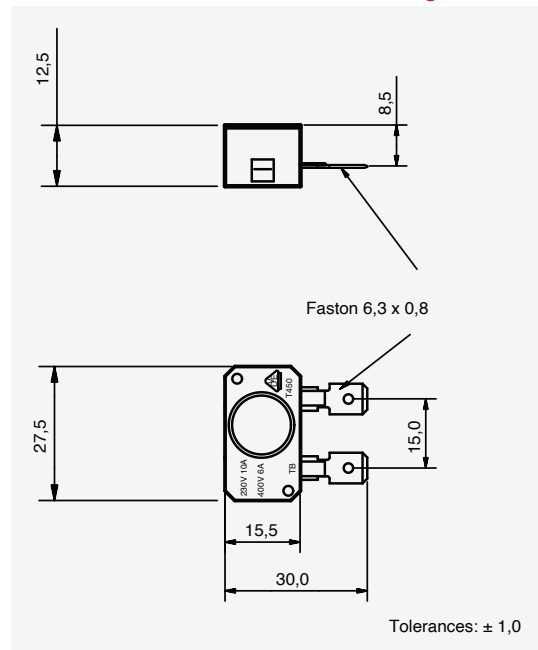
Standard, fixed flange
Mounting method 3



Standard, screw terminal
Mounting method 1
Terminal configuration 45



Standard, Faston terminal
Mounting method 1
Terminal configuration 25



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