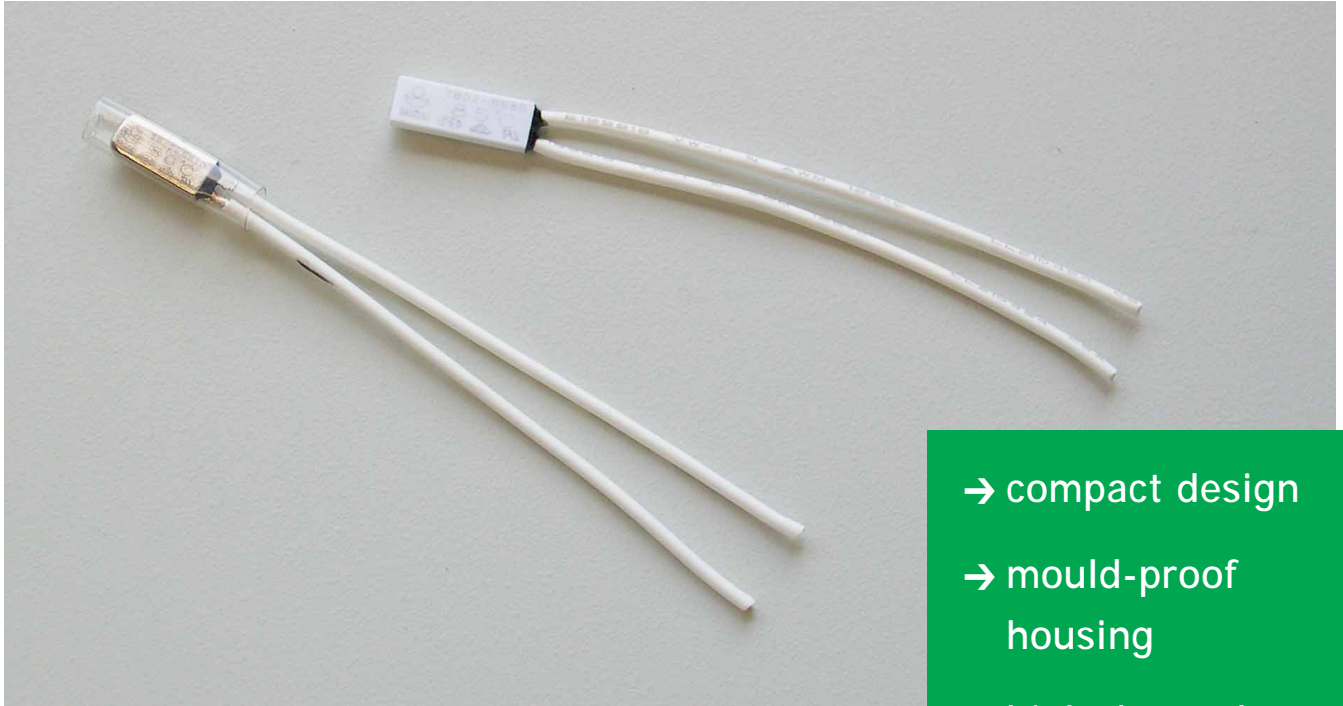


Thermal Protector

TB 02



- compact design
- mould-proof housing
- high thermal sensitivity
- high mechanical stability (especially metal housing)

Applications

Thermal overload protection of small electrical equipment, small electric motors, heating appliances, fluorescent lighting ballasts and others.

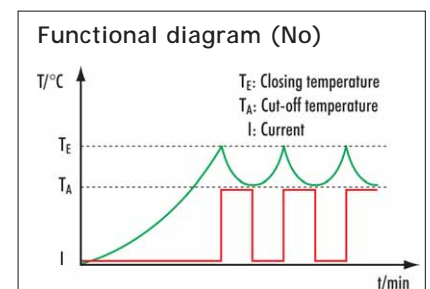
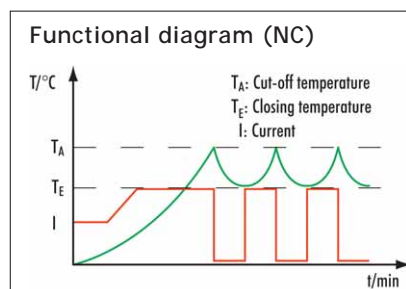
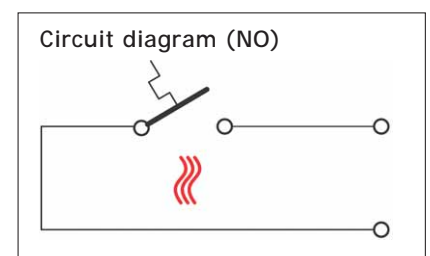
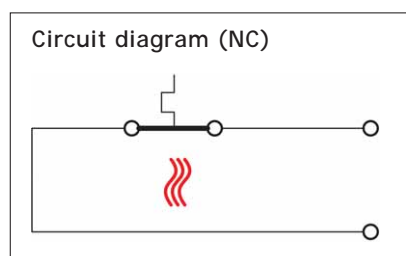
After cooling down to the snap-back temperature of the bimetal disk, the protector returns to its initial position automatically.

Function

The thermal protector TB 02 normally operates not current sensitive. Temperature detection is realized by a bimetal snap disk.

Using high-impedance bimetal material, the response time of the protector can be reduced (moderate current sensitivity).

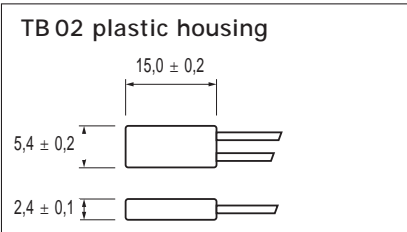
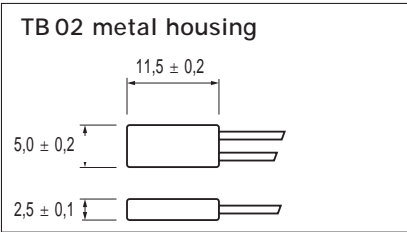
The thermal protector is available with normally closed (NC) as well as normally opened (NO) contacts.



Technical Data Thermal Protector TB 02

Switching Capacity	250 V / 50 Hz, 2 A
Minimum Current	50 mA
Max. Switching Capacity	250 VAC, 2 A
10.000 Cycles	115 VAC, 3 A
	24 VDC, 3 A
	12 VDC, 4 A
Action Type	3 C
Switching Temperature	30°C – 155°C (± 5 K)
Switching Differential	10 – 50 k (± 15 K)
	depending on Switching Temperature
Max. Ambient Temperature	160°C
Approvals	UL/CSA 2111; VDE 60730-2-2; CQC; TÜV 60730-2-9+2-3

Dimensions TB 02



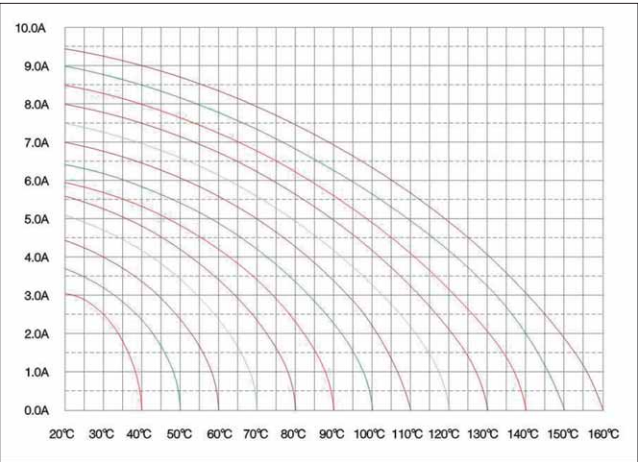
Technical Informations

The thermal protector TB 02 is enclosed by a mould-proof housing which is available as metal or plastic type.

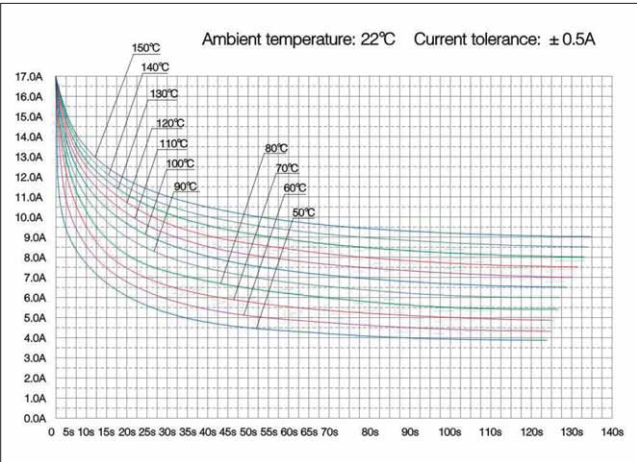
Electrical insulation of the metal housing is possible by means of insulation tubes. Its rectangular homogeneous design provides efficient and fast temperature transfer.

Standard leads are 70 mm (22/24 AWG). Other leads (diameter, stripped etc.) are available on request.

Tripping Temperature vs. Current



Current vs. Tripping Time



Coding system	
TB 02 - B - B 8 D - XXX	
Operating temperature	
Bimetal: D low resistance value	
Type case: 1 metal case, 8 plastic case	
A temperature protection, B current-/temperature protection	
Contact configuration: B normally closed, K normally open	
Item: 2 Amp.	