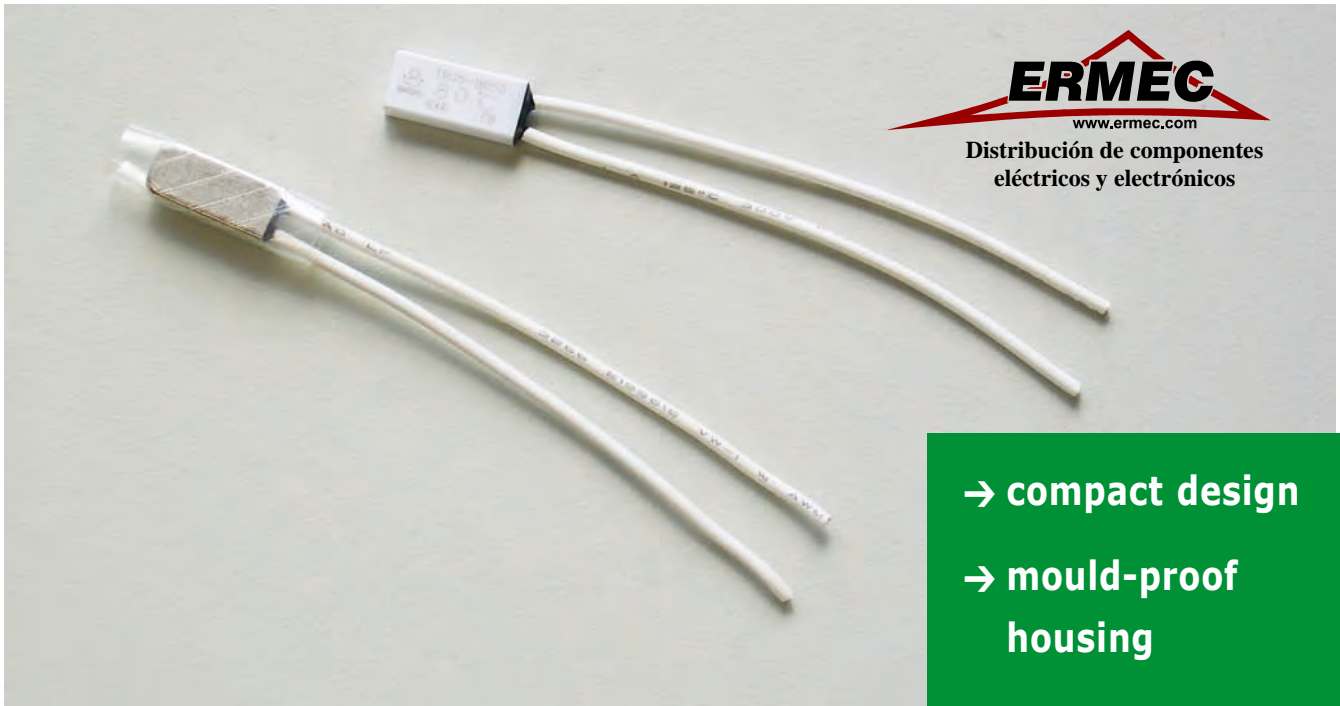


# Thermal Protector TB05



- 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.

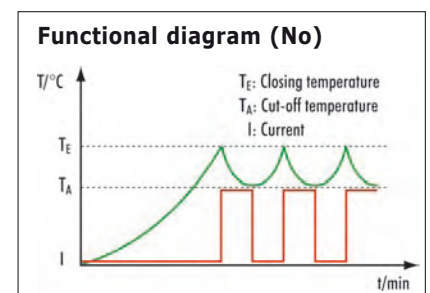
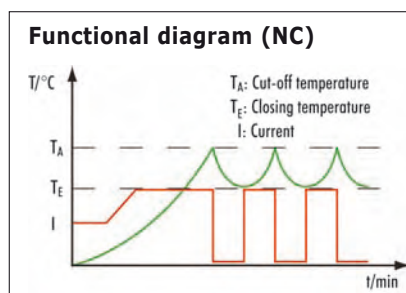
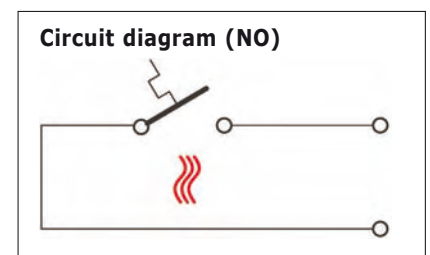
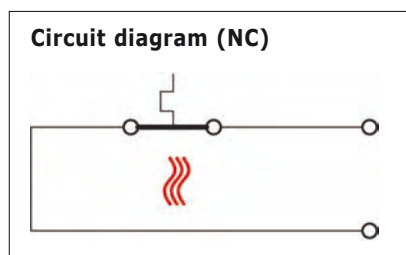
After cooling down to the snap-back temperature of the bimetal disk, the protector returns to its initial position automatically.

## Function

The thermal protector TB05 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).

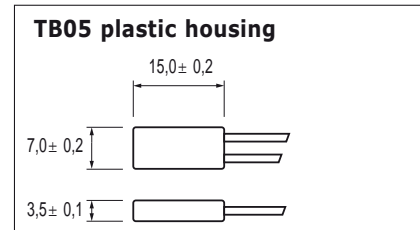
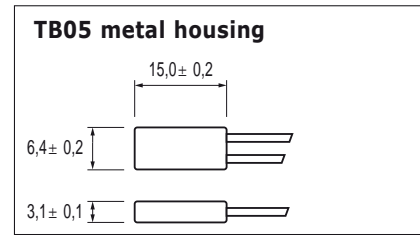
The thermal protector is available with normally closed (NC) as well as normally opened (NO) contacts.



# Technical Data Thermal Protector TB05

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

## Dimensions TB05



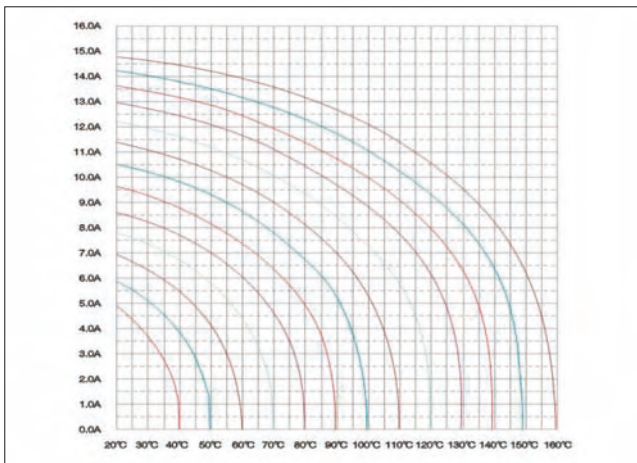
## Technical Informations

The thermal protector TB05 is enclosed by a mould-proof housing which is available as metal or plastic type.

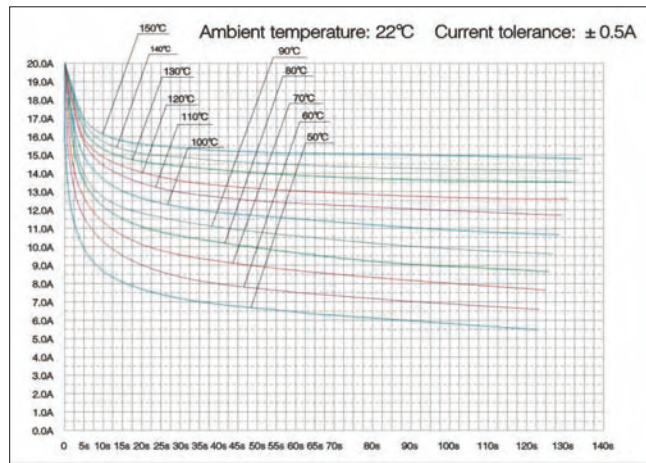
Electrical insulation of the metal housing is possible by means of insulation tubes. Its rectangular homogeneous design provides efficient and fast temperature transfer.

Standard leads are 70 mm (20 AWG). Other leads (diameter, stripped etc.) are available on request.

## Tripping Temperature vs. Current

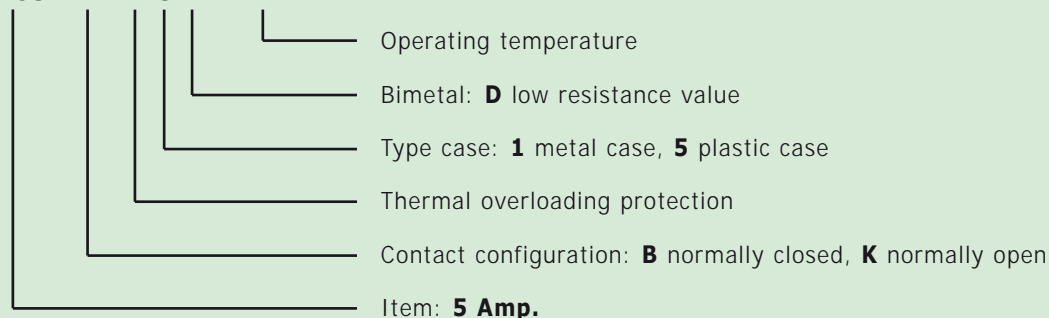


## Current vs. Tripping Time



## Coding system

**TB05 - B - B 5 D - XXX**



ERMEC, S.L. BARCELONA  
C/ Francesc Teixidó, 22  
E-08918 Badalona  
(Spain)



Distribución de componentes eléctricos y electrónicos

Tel.: (+34) 902 450 160  
Fax: (+34) 902 433 088  
[info@ermec.com](mailto:info@ermec.com)  
[www.ermec.com](http://www.ermec.com)

ERMEC, S.L. MADRID  
C/ Sagasta, 8, 1ª planta  
E-28004 Madrid  
(Spain)

PORTUGAL  
[portugal@ermec.com](mailto:portugal@ermec.com)  
BILBAO  
[bilbao@ermec.com](mailto:bilbao@ermec.com)