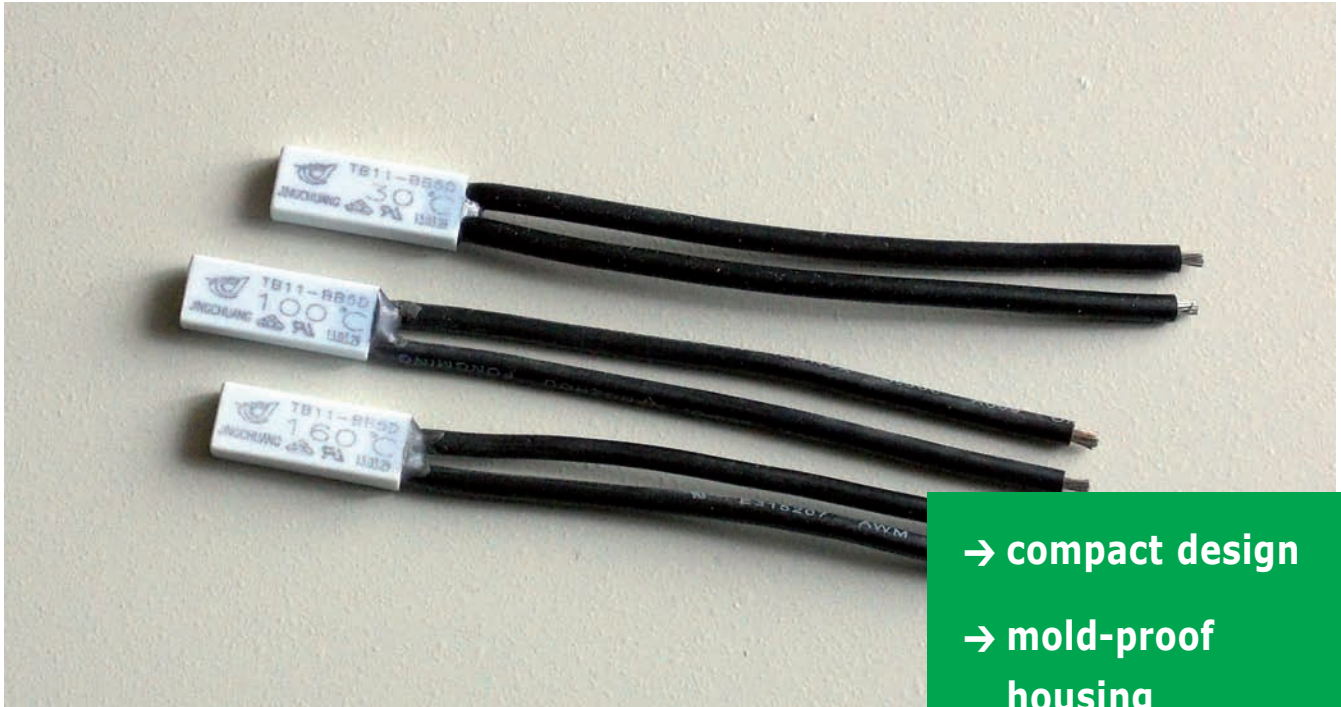


Thermal Protector TB11



- compact design
- mold-proof housing
- high thermal sensitivity
- time delayed reset function (optionally)

Applications

Thermal overload protection of small electric equipments, small electric motors, heating appliances, fluorescent lighting ballasts, battery packs and others.

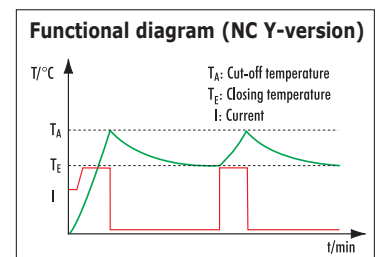
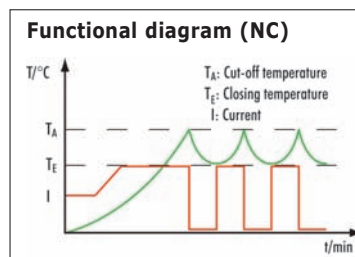
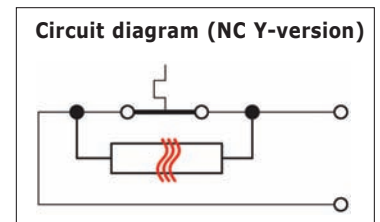
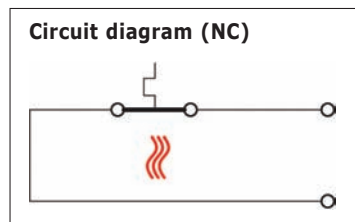
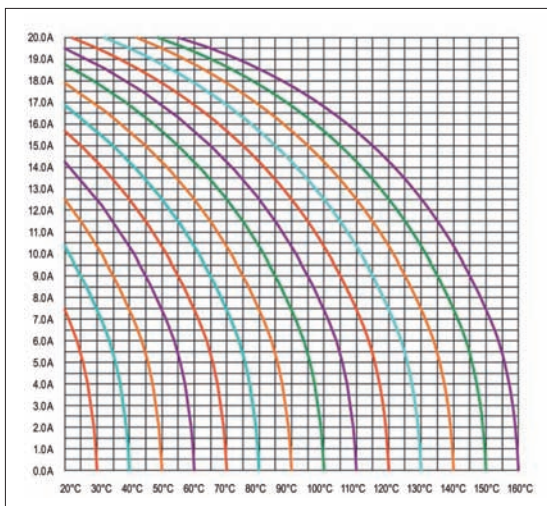
Function

The thermal protector TB11 normally operates not current

sensitive. Temperature detection is realized by bimetal snap disc.

The thermal protector is available with normal closed (NC) as well as normally opened (NO) contacts with automatically reset function. Optionally the unit can be modified by adding PTC to realize time delayed reset function (Y-type).

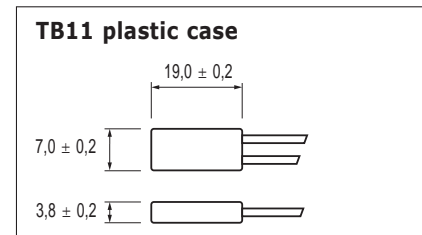
Tripping temperature vs current



Technical Data Thermal Protector TB11

Switching capacity	250 V / 50 Hz, 11 A
Minimum current value	50 mA
Max. switching capacity	250 VAC, 11 A
10.000 cycles	12 VDC, 17 A
Action type	3 C
Switching temperature	30°C – 165°C (± 5 K)
Switching differential	10 – 45 k (± 15 K) depending on switching temperature
Max. ambient temperature	180°C
Approvals	UL 60730-1; 2-9 VDE pending

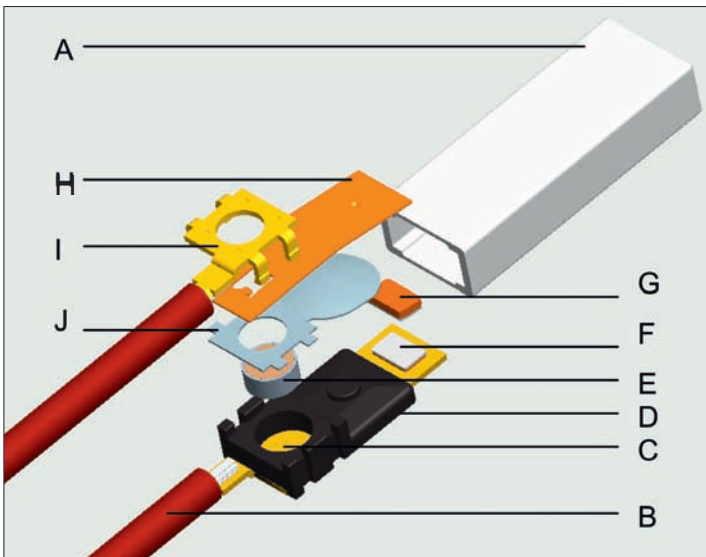
Dimensions TB11



Lead wire specification

AWG 18, UL 3358, UL 3135, UL 1332
Standard lead length: 70 mm, clear cut

Exploded view TB11



- A: plastic case
- B: lead wire
- C: lower terminal
- D: lower block
- (E: PTC)
- F: stationary contact
- G: moveable contact
- H: moveable arm
- I: upper plate
- J: bimetal disc

Coding System

TB11 - B - B 5 D - XXX

- operating temperature in °C, tolerance ± 5 K
- bimetal: **D** low resistance
- type case: **5** plastic case
- A = temperature protection (normally open type)
- B = temperature and current protection (normally closed type)
- Y = time delay reset function (with PTC)
- contact configuration: **B** normally closed, **K** normally open
- item: **11 Amp.**



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