Thermal Protector TB 05





Applications

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

After cooling down to the bimetal disk, the protector returns to its initial position automatically.

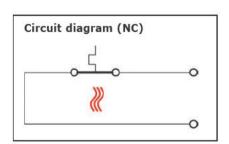
snap-back temperature of the

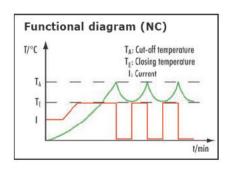
Function

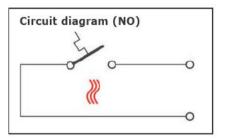
The thermal protector TB 05 normally operates not current sensitive. Temperature detection is realized by a bimetal snap disk.

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.





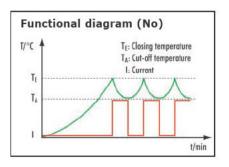


→ high mechanical

metal housing)

stability

(especially



Technical Data Thermal Protector TB 05

Switching Capacity 250 V / 50 Hz, 5 A

Minimum Current 50 mA

Max. Switching Capacity 250 VAC, 5 A 10.000 Cycles 24 VDC, 10 A

Action Type 3 C

Switching Temperature 50°C - 155°C (±5K) Switching Differential 10 - 50 k (±15K)

depending on Switching Temperature

Max.

Ambient Temperature 160°C

Approvals UL; VDE 60730-2-3; CQC

7,0± 0,2 3,5± 0,1 3.5

Technical Informations

The thermal protector TB 05 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 (20/22 AWG).

Dimensions TB 05

6,4±0,2

3,1±0,1 T

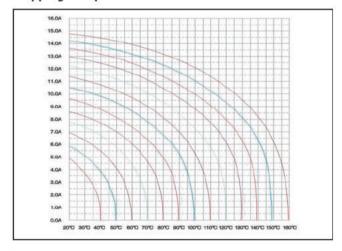
TB 05 metal housing

TB 05 plastic housing

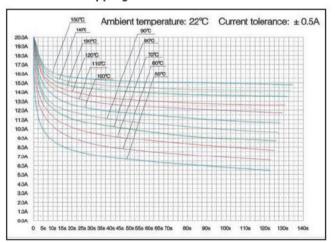
15,0±0,2

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

Tripping Temperature vs. Current



Current vs. Tripping Time



TB 05 - BB 5 D - 105 operating temperature (example: 105°C ±5K) bimetal: D low resistance value type case: 1 metal case, 5 plastic case function: BB normally closed type (NC) KA normally open type (NO) item: 5 Amp.



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