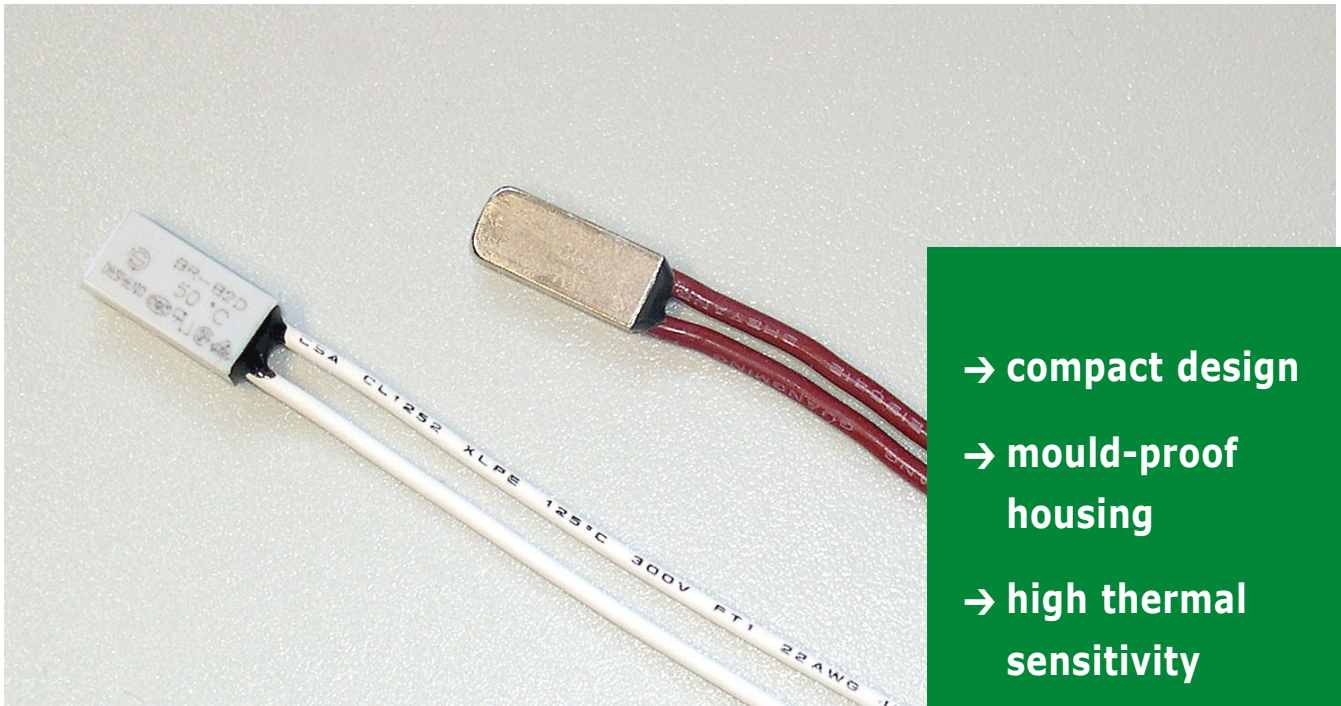


Thermal Protector BR



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

Applications

Thermal overload protection of small electrical equipment, transformer windings, small motors and similar applications.

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

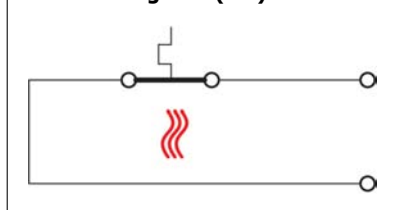
Function

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

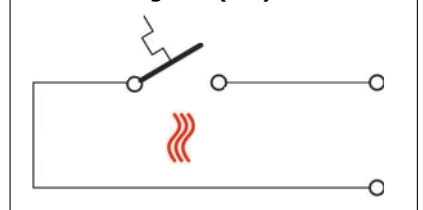
Using high-impedance bimetal material, the response time of the protector can be reduced (moderate current sensitivity).

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

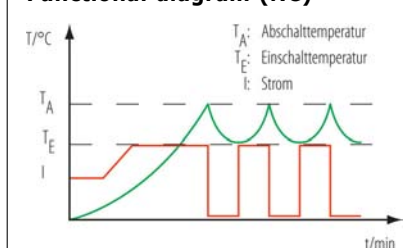
Circuit diagram (NC)



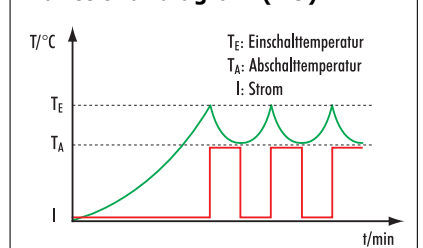
Circuit diagram (NO)



Functional diagram (NC)



Functional diagram (NO)

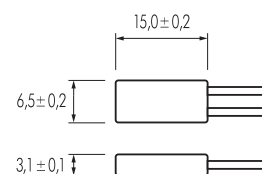


Technical Data Thermal Protector BR

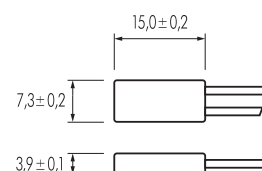
Switching Capacity:	250 V / 50 Hz, 8 A
Minimum Current:	50 mA
Max. Switching Capacity:	250 V, 8 A (cos Φ 1,00) 5000 Cycles 125 V, 12 A (cos Φ 1,00) 5000 Cycles 24 VDC, 12 A, 1000 Cycles
Action Type:	3 C
Switching Temperature:	50°C – 150°C ($\pm$ 5 K)
Switching Differential:	10 – 50 k ($\pm$ 15 K) depending on Switching Temperature
Max. Ambient Temperature:	160°C
Approvals:	UL/CSA: E214731, XEWR2, VDE: 132813, EN60730-1; 2-2, CQC (CCC)

Dimensions BR

BR-A metal housing



BR-B plastic housing



Technical Informations

The thermal protector BR is enclosed by a mould-proof housing which is available as metal (BR-A) or plastic (BR-B) type.

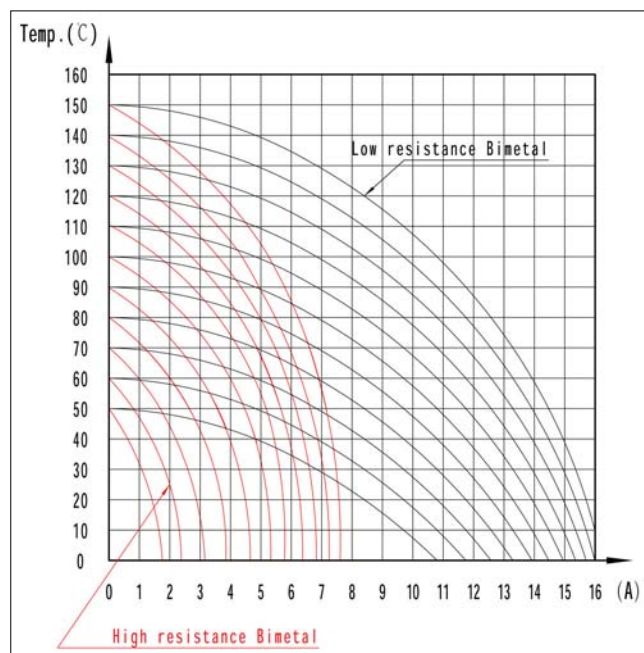
Electrical insulation of the metal housing is possible by means of insulation tubes.

Its rectangular homogeneous design provides efficient and fast temperature transfer.

Standard leads are 70 mm 20 AWG, not stripped.

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

Tripping Temperature vs. Current



Current vs. Tripping Time

