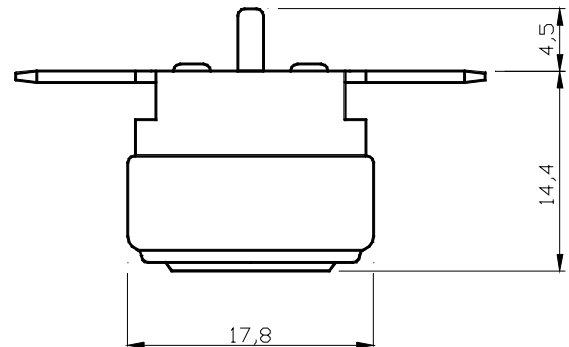


Thermal Protector CB Type

1/2" Manual Reset Thermal Protector in Ceramic Housing for 400VAC



Description: Thermostat with bimetal snap-action disc and manual reset in ceramic housing. Opens contacts upon rising temperature (NC type). This type of temperature control does not reset automatically. The electric circuit can only be reclosed by the deliberate manual reset of the thermal protector. The switching temperature is factory preset and cannot be adjusted subsequently. All current-carrying parts are electrically isolated from the locking / mounting cap. Locking caps are available in various mounting styles (see design overview).

Application: Ideal to control a preset temperature in an environment with high ambient temperatures, e.g. baking ovens, Industrial appliances, extruders, electric heating devices, medical equipment, industrial devices, dryers, etc. In electric circuits, where for safety reasons an automatic reset must be prevented in any circumstance. The electric circuit can only be reclosed by the deliberate manual reset of the thermal protector.

Specifications:

Contact ratings:	VDE: 400VAC, 16 (6.0) A \geq 1,000 cycles
	250VAC, 16 (6.0) A \geq 10,000 cycles
Minimum switching current:	\geq 50mA with silver contacts, \geq 10mA with gold-plated contacts
Contact resistance:	\leq 25m Ω with silver contacts, \leq 10m Ω with gold-plated contacts
When using gold-plated contacts, only suited for application in signal circuits (low voltages and currents)!	

Dielectric strength: 2,500Veff, 50Hz el. terminals to locking cap
500Veff, 50Hz across open contacts

Temperatures:

Switching temperatures:	-25°C ... +360°C	(VDE: ...+195°C at 400VAC, ...+200°C at 250VAC)
Ambient temperature limit:	-25°C ... +380°C	(VDE: -25°C . . . +200°C at the switching head)
Standard tolerances:	\pm 5K, >200°C \pm 5%	other values on request

Certifications: VDE

Terminals: Fast-on blade terminal compliant with DIN 46244, screw-type, welding or soldering terminals (see design overview)

Note: For switching temperatures >200°C, the thermal protector needs to be adapted to the required thermal and electrical parameters of the particular application (current, voltage) by using special materials. The use of special material may result in a limitation of the electrical current. Optionally, the thermostat can be supplied with factory-terminated temperature-resistant lead wires or stranded cable as per customer's specification.

Examples of design:



Technical specifications as stated in our data sheets are based on the results of tests carried out in the facilities of Temtech or the respective component manufacturer applying standard test methods and equipment. Results obtained when using different test procedures and equipment may vary. The proper adjustment of the thermostats and any other component purchased from Temtech and proof of suitability for the intended application is the buyer's sole responsibility. Temtech makes no warranty as to mismatches of any kind. We reserve the right to make changes that serve technical progress..