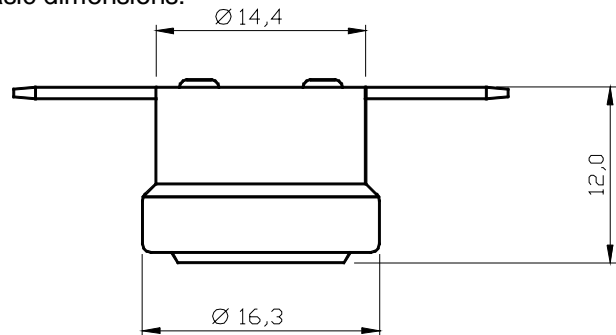


Thermal Protector Type SO

1/2"- Voltage-maintained Self-hold Thermal Switch in Plastic Housing



Basic dimensions:



Description: Self-holding temperature-sensitive thermal protector in plastic housing for overheat protection. The bimetal snap-action disc opens the contact (type NC) upon rising temperature. The built-in heating element holds contact open, until the user disconnects the power source. After disconnecting, the protector resets automatically when cooled down to a safe operating temperature.
The switching temperature is preset in the factory 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 examples of design).

Application: In such electric circuits, where an automatic reset must be prevented for safety reasons. Suited for use in domestic and industrial heating appliances, medical equipment, industrial applications, dryers, etc.

Specifications:

Contact ratings:	VDE: 250VAC, 10 (1.6) A	≥ 3,000 cycles
	250VAC, 16 (6.0) A	≥ 1,000 cycles
	UL: 250VAC, 16 (6.0) A	≥ 6,000 cycles
Standard operating voltage:	230VAC, other values on request	
Minimum switching current:	≥50mA with silver contacts, ≥10mA with gold-plated contacts	
Contact resistance:	≤25mΩ with silver contacts, ≤10mΩ with gold-plated contacts	
When using gold-plated contacts, only suited for application in signal circuits (low voltages and currents)!		
Dielectric strength:	2,000Veff, 50Hz el. terminals to locking cap	

Temperatures:

Switching temperatures:	-25°C . . . +195°C	(VDE: -25°C . . . +200°C)
Ambient temperature limit:	-40°C . . . +200°C	
Standard tolerances:	± 3K, ± 5K, ± 8K other values on request	

Certifications: Can be delivered with VDE, UL mark. Specify when ordering!

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

Note: To determine the maximum permissible current load, please consider the applicable standards and regulations for the blade receptacles, cable lugs, wires, etc. used.
The built-in heating element needs to be adjusted to the particular application. Please consult our technical support for assistance. Optionally, the thermostat can be supplied with factory-terminated 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. When using different test methods, test results may vary. The proper adjustment of the thermostats and any other components 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.