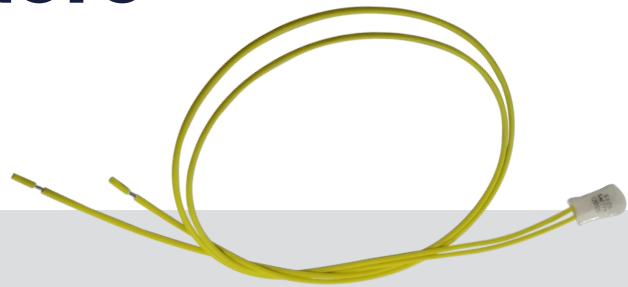


Thermal Protectors

thermik® S01 series



Design

These switches are equipped with a high capacity contact mechanism, wherein the bimetallic disc can move freely, without the current flowing through it. An additional spring disc maintains constant contact pressure until reaching its switching temperature.

Operation

If, in the case of overheating, the rated switching temperature of the bimetallic disc is reached, it suddenly snaps over and opens the contact. After cooling down beyond its resetting temperature, the bimetallic disc returns automatically to its initial position.

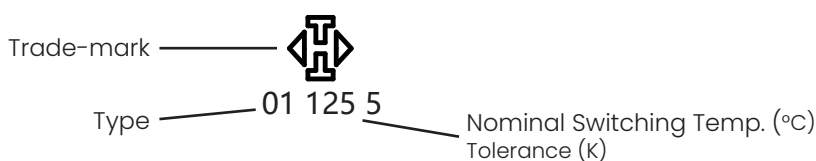
Features

Specially flat design	to fit closely built-up circuits
Quick response sensitivity	Featured by small protector mass and the metal-housing
Excellent long term performance	due to instantaneous switching, fine silver contacts, constant contact resistance and to electrically as well as mechanically unstressed bimetallic disc, reproducible switching temperature values
Instantaneous switching	with constant contact pressure over the whole temperature range
Very short bounce times	< 1 ms
Temperature resistance	by use of high temperature resistant materials and components

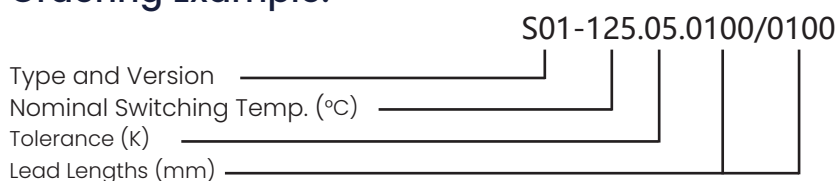
Technical Information

Contact type	NC- normally closed
Nominal switching temperature (NST)	60 °C-200 °C
Standard tolerance	±5K
Resetting temperature (RST)	RST = NST-35K ±15K
Operating voltage	...500 V AC; DC - available
Contact bounce time	< 1 ms
Impregnation resistance	suitable
Contact resistance	< 50 mΩ
Vibration proof at 10 60 Hz	100 m/s ²
Pressure stability of housing	450 N
Switch insulation	Insulation cap: Mylar-Nomex
Dielectric strength of the insulation cap	2 kV _{r.m.s.}
Standard connection leads	multi stranded wire 0.25mm ² or AWG 22

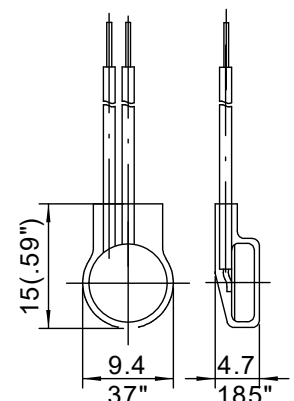
Marking Example of the Insulation Cap:



Ordering Example:



Dimensions (average):





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