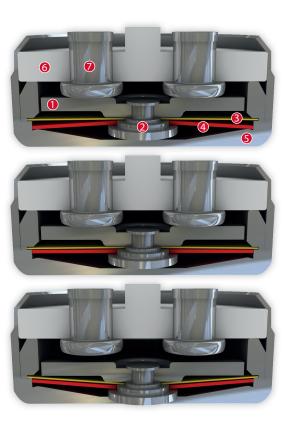


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# DATASHEET Thermal Protector L06

# Type series 06



## **Construction and function**

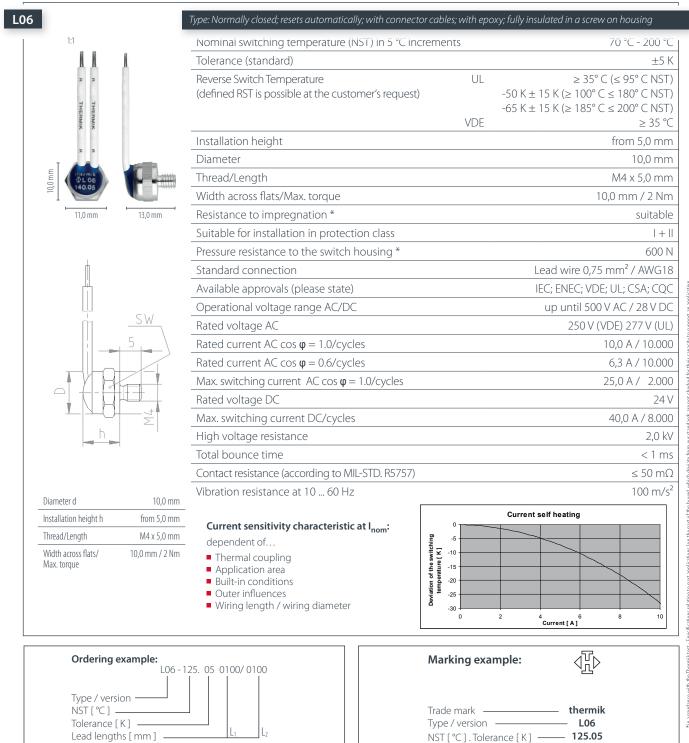
Switchgear consisting of a mobile and circular contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a non-conductive floor of a housing (5) and an insulating ceramic bearing (6) with two integrated stationary contacts (7) as electrodes. At the same time, the switchgear is supported by the spring snap-in disc (3) with the contact bridge (1) acting as a transfer element for electric current which is held between a supporting collar and a circumferential ring. As such, the bimetallic disc (4) underlying it, that is also stuck out from the contact bearing pin (2), can continuously work (exposed) by mechanical loads without the contact pressure defined by the spring snap-in disc (3) diminishing. As soon as the bimetallic disc (4) reaches its rated switching temperature, it effectively springs against the throw force of the spring snap-in disc (3) into its inverted position. The contacts are abruptly opened. The temperature will now fall. The bimetallic disc (4) will only snap back upon reaching a defined reset temperature and the contacts will be closed again. As the contact bearing pin (2) is appropriately dimensioned, an easy, circular rotation of the circle-shaped contact bridge (1) is enabled with every switch so that transfer resistances remain constantly below the minimum limit after many switch cycles and the long term stability is sustained even under high levels of stress.



Features:	
Small dimensions	to fit closely built-up circuits
Quick response sensitivity	featured by small protector mass and excellent heat transfer from the me- tal-housing to the bimetallic disc
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
Very short bouncing times	< 1 ms
Instantaneous switching	with always constant contact pressure up to the nominal switching point, resulting in low contact stress
Temperature resistance	by use of high temperature resistant materials and components

### **Technical Data Type L06**

The listed products are an extract from our standard range. Other versions and customised manufacturing are available upon request.



#### More varieties of the type series 06:

- C06 with connector cables; with epoxy; without insulation
- S06 with connector cables; with epoxy; insulation: Mylar®-Nomex®
- P06 with connection pins; with epoxy; fully insulated in the attachment housing
- V06 with connector cables and double-insulated in the attachment housing
- B06 with connector cables; with epoxy; fully insulated in a Ryton® cap
  F06 with connector cables; with epoxy; fully insulated in a Nomex® cap
- C06HT with connector cables: silicone coated: without insulation
- S06HT with connector cables: silicone coated: insulation: PTFF
- H06 with connector cables; with epoxy; fully insulated in the attachment housing



www.thermik.de/data/C06 www.thermik.de/data/S06 www.thermik.de/data/P06 www.thermik.de/data/N06 www.thermik.de/data/F06 www.thermik.de/data/S06HT www.thermik.de/data/N06 \*In accordance with the Thermik test - Specifications relating to part applications (on the part of the buyer) which deviate from our standards are not checked for their capacity to support an application and/or conformity with standards. The experiment of the buyer) which deviate from our standards are not checked for their capacity to support an application values, depending on the emotion of the buyer) which deviate from our standards are not checked for their capacity to support an application values, depending on the emotion ensemble of the ensemble of dimensions' values, depending on the emotion of the polyter upont ensert. • Supplie downsare possible in terms of dimensions' applications, approvals, etc. and the support and the polyter upont ensert. • Manual experiment, etc. • Applications are possible in the resonance of dimensions' applications, approvals, etc. and the support ensert methods, applications are possible in the expertent of the polyter upont ensert. • Applications are possible in the resonance of the ensert methods, applications are possible in the ensert methods. • Application of the postible upont ensert.