

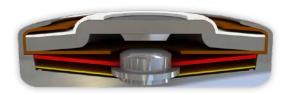
# DATASHEET Thermal Protector S01HT

## Type series 01









### **Construction and function**

The switchgear of type series 01 is fixed in a positive lock and is self-aligning between the floor of a conductive housing (1) and a contact cap which is made of steel (2) and insulated from it, plus an integrated stationary silver contact (6) which closes the housing like a button cell. At the same time, the spring snap-in disc (3) which forms the current transfer element bears the movable contact (4) and discharges the flow of current and self-heating from the bimetallic disc (5) by exercising consistent, steady contact pressure. The bimetallic disc (5) is held on the one movable contact (4) which sticks out through this without having to be welded or fixed. As such, it can continually work (exposed) and only reacts to the ambient temperature in the device to be protected. When the rated switching temperature is reached, the bimetallic disc (5) snaps into its inverted position and pushes the spring snap-in disc (3) downwards. The contact is abruptly opened and the temperature rise of the device to be protected is disrupted. If the ambient temperature now falls, the bimetallic disc (5) snaps back into its start position when reaching the defined reset temperature and the contact is closed again.



### 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 always constant contact pres- sure up to the nominal switching point, resulting in low contact stress
Very short bounce times	< 1 ms
Temperature resistance	by use of high temperature resistant materials and components

### **Technical Data Type S01HT**

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

205 °C - 250 °C

120 °C ±15 K

±10 K

≥ 35 °C from 5,1 mm

9,7 mm

20,5 mm

suitable

| + ||

450N

up until 500 V AC

2,5 A / 1.000

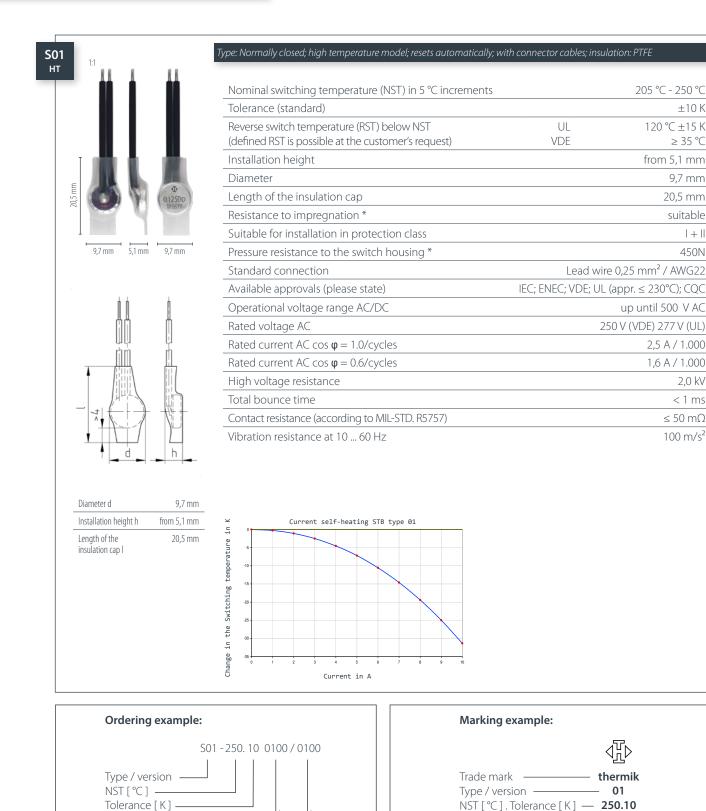
1,6 A / 1.000

2,0 kV < 1 ms

 $\leq 50 \text{ m}\Omega$ 

100 m/s<sup>2</sup>

250 V (VDE) 277 V (UL)



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More varieties of the type series 01: www.thermik.de/en/products/baureihen-en/01/



Lead lengths [mm]

### Thermik Gerätebau GmbH

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Salzstraße 11 · 99706 Sondershausen · Germany TEL.: 0049 (0)3632-54 12 - 0 · FAX: 0049 (0)3632-54 12 49 100 www.thermik.de/en