

# DATASHEET Thermal Protector CXO

## Type series XO







### **Construction and function**

Switchgear consisting of a movable silver contact (1), a contact bearing pin (2), a spring snap-in disc (3), a bimetallic disc (4) and a contact tongue (5) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a conductive, heat transferring housing (6) and a contact cap (7) made of steel that is insulated from it, plus a stationary countercontact (8). At the same time, the switchgear is supported by the contact tongue (5) acting as a transfer element for electric current which is held between a supporting collar and a circumferential ring. As such, the switchgear underlying it, that is also stuck out from the movable contact (1), 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 contact is abruptly opened. The temperature will now fall. The bimetallic disc (4) will only snap back upon reaching a defined spring back temperature and the contact is abruptly closed again.



#### Features:

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

< 1 ms

with always constant contact pressure up to the nominal switching point, resulting in low contact stress

Temperature resistance

Very short bouncing times

Instantaneous switching

by use of high temperature resistant materials and components



#### **Technical Data Type CXO**

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 XO:

• SXO – with connector cables; with epoxy; insulation: Mylar®-Nomex®

Trade mark thermik XO Type / version -NST [ °C ] . Tolerance [ K ] - 125.10

www.thermik.de/data/SXO



