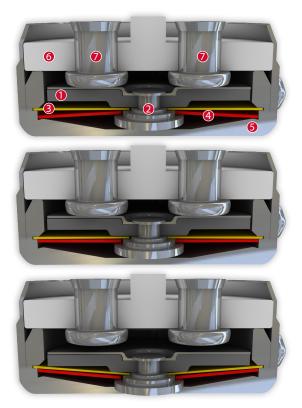


DATASHEET Thermal Protector CXH

Type series XH





thermic 201

Construction and function

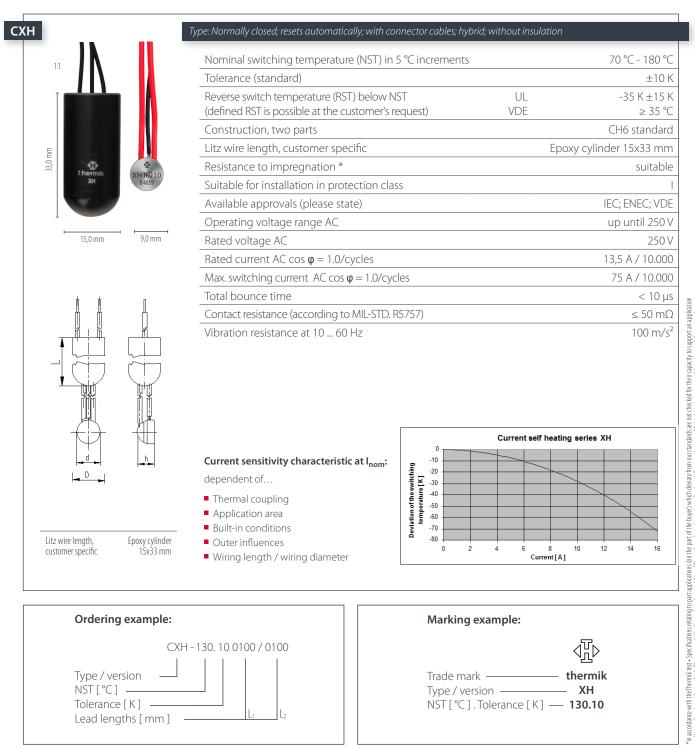
Switchgear consisting of a mobile and circumferential contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between the floor of a conductive housing (5) and an insulating ceramic bearing (6) with two integrated stationary contacts (7). 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 abruptly closed again. As a result of the parallel connection of the three pin switch using a controllable semiconducter valve (Triac), the arc sparks that usually occur in a millisecond range during processes are extinguished. Ideal, zero-crossing switching is created through which enormous power ratings are generated, even in the smallest of assemblies.

Features:

High switching performance	Maximum switching current 75 A
Quick response sensitivity	Featured by small protector mass and the brass-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
Very short bounce times	< 10 µs
Instantaneous switching	Almost arc free circuit
Temperature resistance	Due to the using of high temperature resistant materials and components

Technical Data Type CXH

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 XH:

• SXH – with connector cables; hybrid; insulation: Mylar®-Nomex®





In accordance with the flemik 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 and/or conformity with standards. The responsibility for testing the sudability of Thermik products for such applications falls upon the user - Slight deviations are possible in terms of dimension? A submost applications approxed approxement of the product. We reserve the right to make technical changes in the course of turbler development. • Details concerning certain data, massurement methods, applications, approvals, etc. can be supplied upon request.