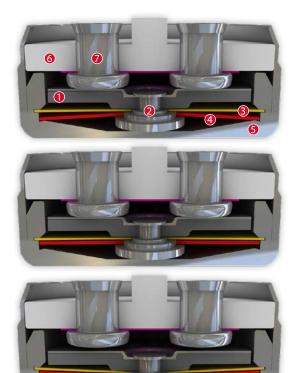


DATASHEET Thermal Protector CRH

Type series RH





Construction and function

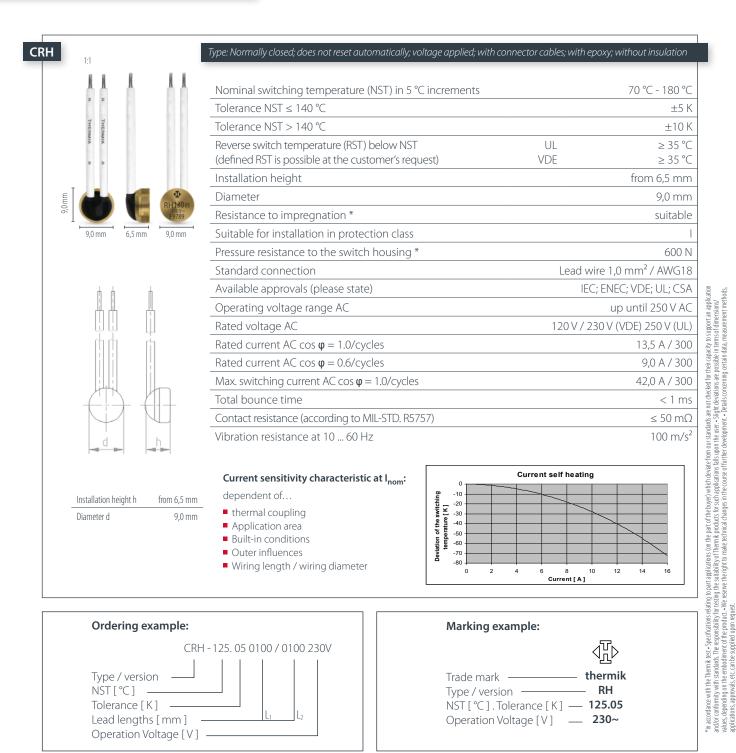
Switchgear consisting of a mobile and circumferential contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a non-conductive floor of a housing (5) and an 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 (7) are abruptly opened. The resistance ceramic (6) switched in parallel now sustains the operating voltage and deploys a defined electrical heating output on the switchgear regardless of the ambient temperature and permanently sustains it above its springback temperature so that the switchgear cannot reset back. The contacts (7) remain open. The Thermal protectors can only cool down again and switch to the original closed state when the external operating voltage is no longer applied and/or disconnection from the mains.



Features: Quick response sensitivity featured by the brass housing and small protector mass High performance switching currents up to 42 A Excellent long term due to fine silver contacts, reproducible performance switching temperature values due to tempered, electrically and mechanically unstressed bimetal disc. minimal contact burn Instantaneous switching with always constant contact pressure up to the nominal switching point, resulting in low contact stress Very short bounce times < 1 ms

Technical Data Type CRH

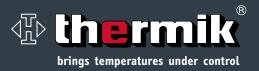
The listed products are an extract from our standard range. Other versions and customised manufacturing are available upon request.



More varieties of the type series H6:

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

www.thermik.de/en/data/SRH



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