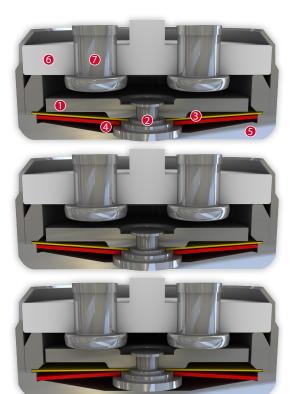


DATASHEET Thermal Protector C08

Type series 08





Construction and function

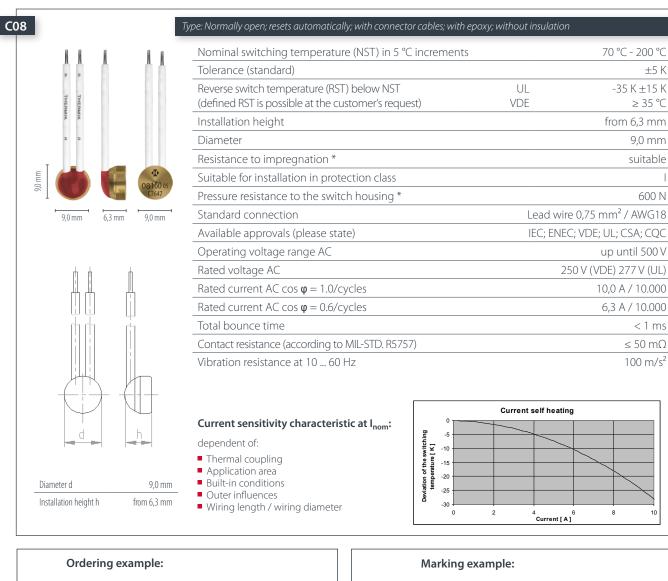
Switchgear consisting of a mobile and circular contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a non-conductive floor of a housing (5) and an insulating ceramic bearing (6) with two integrated stationary contacts (7) as electrodes. At the same time, the switchgear is initially held open by the spring snap-in disc (3) with the contact bridge (1) acting as a transfer element for electric current after the switching process) which is fastened 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 distance between the contact surfaces (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 closed. The temperature will now fall. The bimetallic disc (4) will only snap back upon reaching a defined spring back temperature and the contacts will be abruptly opened again. As a result of the dimensioning of the contact bearing pin (2), 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.

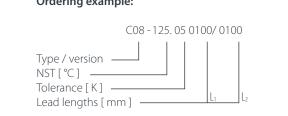
Features:	
Strong power density	Strong currents in small types of construction
Quick response sensitivity	Featured by small protector mass and the metal-housing
Excellent long term performance	Due to instantaneous switching, fine silver contacts, constant contact resistance and to electrically as well as mechanically unstrained bimetallic disc, reproducible switching temperature values
Very short bouncing times	< 1 ms
Instantaneous switching	Always with the same contact pressure up to reset point; resulting in low contact stress
Temperature resistance	By use of high temperature resistant materials and components



Technical Data Type C08

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 08:

Therm

brings temperatures under control

• S08 – with connector cables; with epoxy; insulation: Mylar®-Nomex®

- L08 with connector cables; with epoxy; fully insulated in a screw on housing
- P08 with connection pins; with epoxy; fully insulated in the attachment housing
- H08 with connector cables; with epoxy; fully insulated in the attachment housing

• V08 – with connector cables and double-insulated in the attachment housing

www.thermik.de/data/S08 www.thermik.de/data/L08 www.thermik.de/data/P08 www.thermik.de/data/H08 www.thermik.de/data/V08

Trade mark —

Type / version ———

NST [°C] . Tolerance [K] — 125.05

thermik

08

*In accordance with the Thermik test - Specifications relating to part applications (on the part of the buyer) which deviate from our standands are not checked for their capacity to support an application values, depending on the ensorbability prices in the intervence of the prices of the theory of the buyer) which deviate from our standands are not checked for their capacity to support an application values, depending on the empower prices of the support of the buyer) which deviate from our standands are not checked for their capacity to support an application values, depending on the embodiment of the product. We reserve the right to make technical changes in the course of further development - Details concerning certain data, measurement methods, applications, approvals, etc. can be supplied upon request.