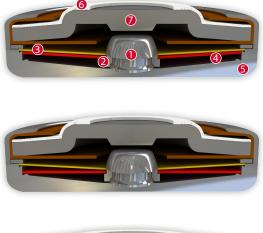


DATASHEET Thermal Protector S09

Type series 09







Construction and function

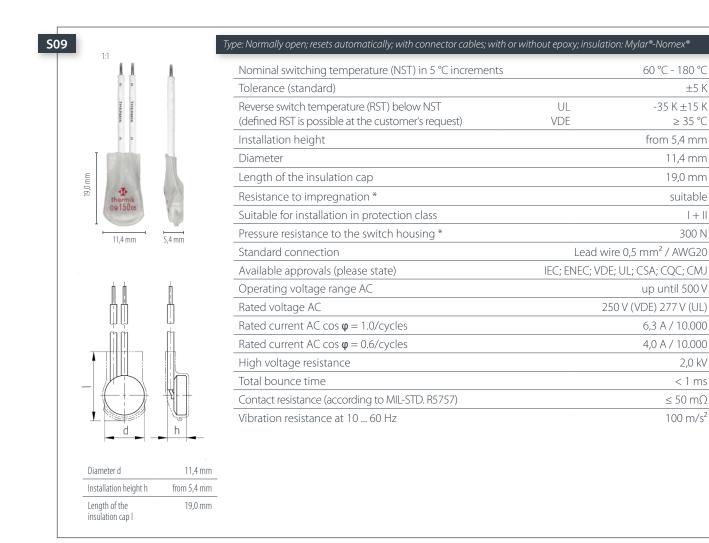
Switchgear consisting of a movable silver contact (1), a contact bearer (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a conductive, heat-transferring housing (5) and a contact cap made of steel (6) that is insulated from it, plus a stationary countercontact (7). At the same time, the switchgear is held open by the spring snap-in disc (3) used 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 movable contact (1), can continuously work (exposed) by mechanical loads. 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 closed. The spring snap-in disc (3) is now a transfer element for electric current and as such, it enables the bimetallic disc (5) to continue to work on a continuous basis. When the spring back temperature is reached, the bimetallic disc snaps back into its start position and the contact is opened again.

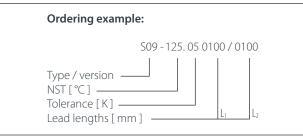


Features:	
Small dimensions	suitable for mounting into and onto windings
Quick response sensitivity	featured by small protector mass and the metal-housing
Excellent long term performance	due to instantaneous switching, fine-silver contacts, constant contact resistance and to electrically as well as mechanically unstressed bimetallic disc, reproducible switching temperature values
Very short bouncing times	< 1 ms
Instantaneous switching	always with the same contact pres- sure up to reset point; resulting in low contact stress
Temperature resistance	by use of high temperature resistant materials and components

Technical Data Type S09

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

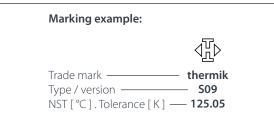




More varieties of the type seriese 09:

• L09 – with connector cables; with epoxy; fully insulated in a screw on housing • C09 – with connector cables; with or without epoxy; without insulation

• F09 - with connector cables; with epoxy; fully insulated in a Nomex® cap



www.thermik.de/data/L09 www.thermik.de/data/C09 www.thermik.de/data/F09

