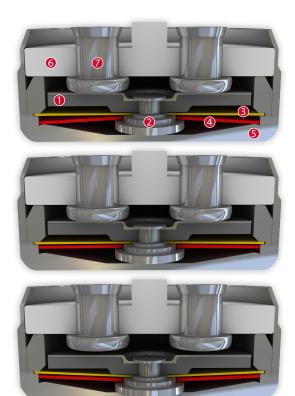


DATASHEET Thermal Protector SH6

Type series H6





Construction and function

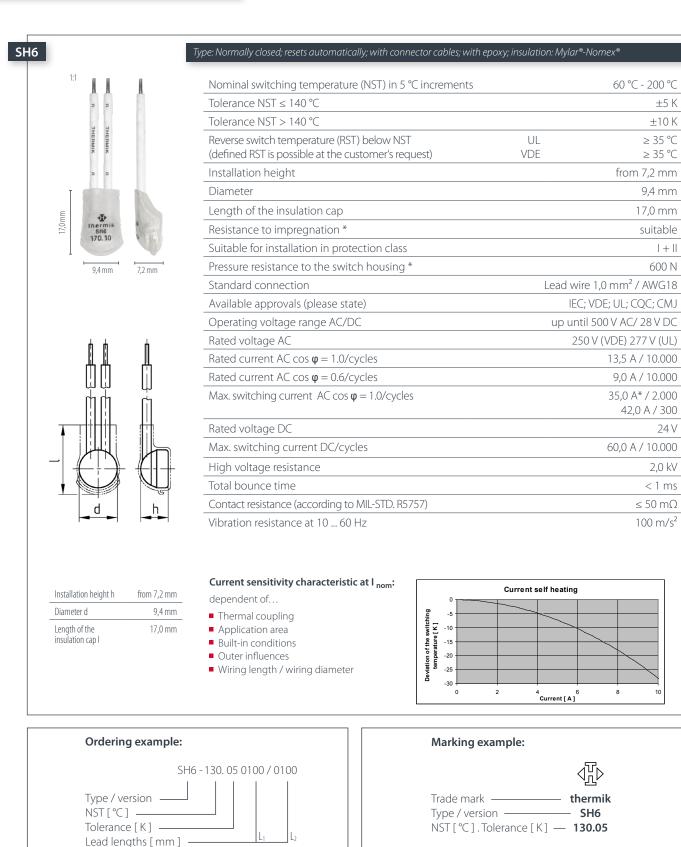
Switchgear consisting of a mobile and circular contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a non-conductive floor of a housing (5) and an insulating ceramic bearing (6) with two integrated stationary contacts (7). 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 abrubtly opened. The temperature will now fall. The bimetallic disc (4) will only snap back upon reaching a defined spring back temperature and the contacts are abruptly closed again. As a result of the dimensioning of the contact bearing pin (2), an easy, circular rotation of the circle-shaped contact bridge 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:	
High performance	maximal switching current 42 A AC / 60 A DC
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 bouncing times	< 1 ms
Instantaneous switching	with always constant contact pressure up to the nominal switching point, resulting in low contact stress

Technical Data Type SH6

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



^{*}In accordance with the Thermik test - Specifications relating to part applications (on the part of the buye) which deviate from our standards are not checked for their capac and/or conformity with standards. The responsibility for testing the subability of Thermik products for such applications fails upon the uset - Sight deviations are possible in additions, applications, approved, set, can be supplied to the early the make technical changes in the course offur the realis concenting certain di applications, approved, set, can be supplied upon requert. We response the right to make technical changes in the course offur the role concenting certain di applications, approved, set, can be supplied upon requert.

More varieties of the type series H6:

• CH6 – with connector cables; with epoxy; without insulation



www.thermik.de/data/CH6