

DATASHEET Thermal Protector H06

Type series 06



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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 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 closed again. As the contact bearing pin (2) is appropriately dimensioned, 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.

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Features:

Contact opening

with constant distance of the contacts in the whole range between switching temperature and reset temperature

Ceramic deck-plate	as contact-carrying part
Very short bounce time	< 1 ms
Instantaneous switching	with always constant contact pressure up to the nominal switching point, resulting in low contact stress
Excellent long term performance	due to fine silver contacts; reproducible switching temperature values due to tempered, electrically and mechanically



unstressed bimetallic disc

Technical Data Type H06

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 06:

- C06 with connector cables; with epoxy; without insulation • 506 – with connector cables; with epoxy; insulation: Mylar®-Nomex®
- L06 with connector cables; with epoxy; fully insulated in a screw on housing
- P06 with connection pins; with epoxy; fully insulated in the attachment housing
- V06 with connector cables and double-insulated in the attachment housing
- · B06 with connector cables; with epoxy; fully insulated in a Ryton® cap
- F06 with connector cables; with epoxy; fully insulated in a Nomex® cap
- · C06HT with connector cables; silicone coated; without insulation
- S06HT with connector cables; silicone coated; insulation: PTFE



www.thermik.de/data/C06 www.thermik.de/data/S06 www.thermik.de/data/L06 www.thermik.de/data/P06 www.thermik.de/data/V06 www.thermik.de/data/B06 www.thermik.de/data/F06 www.thermik.de/data/C06Hi www.thermik.de/data/S06HT

