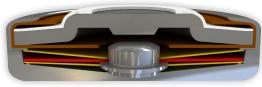
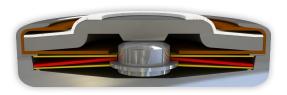


DATASHEET Thermal Protector C02

Type series 02







Construction and function

The switchgear of type series 02 is fixed in a positive lock and is self-aligning between the floor of a conductive housing (1) and a contact cap which is made of steel (2) and insulated from it, plus an integrated stationary silver contact (6) which closes the housing like a button cell. By means of a throw force a bimetallic disc (5) pushes the movable contact (4) that sticks out in the middle of it onto its circumferential collar (6) against the spring snap-in disc (3) that is also surrounding the contact (4). Due to the higher throw force of the bimetallic disc (5) the switch contact remains open against the mechanical resistance of the spring snap-in disc (3) before reaching the rated switching temperature. As such, the contact also remains open as long as the bimetallic disc - only reacting to the ambient temperature - continually works and its shape changes. The bimetallic disc (5) only snaps into its inverted position when the rated switching temperature is reached and the contact is closed by the abruptly released pressure of the spring snap-in disc (3). 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 reset temperature is reached, the bimetallic disc snaps back into its start position and the contact is opened again.



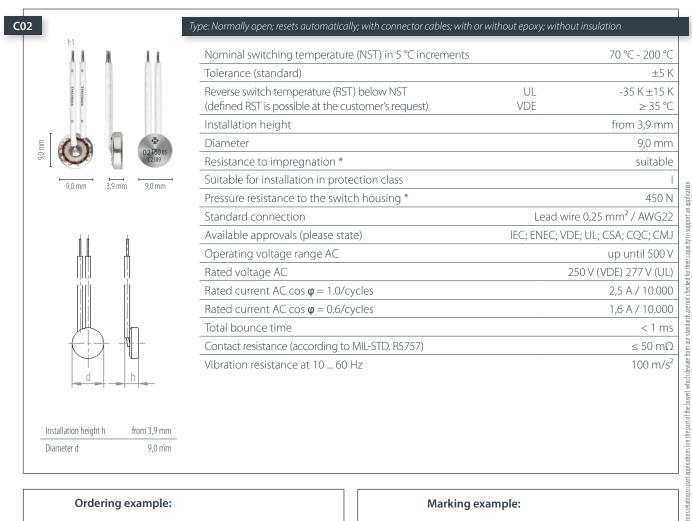
Features:

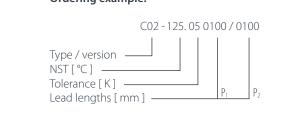
Specially flat design	to fit closely built-up circuits
Quick response sensitivity	Featured by small protector mass and the metal-housing
Excellent long term performance	due to instantaneous switching, fine silver contacts, constant contact resistance and to electrically as well as mechanically unstressed bimetallic disc, reproducible switching temperature values
Instantaneous switching	always with the same contact pres- sure up to reset point; resulting in low contact stress
Very short bounce times	< 1 ms
Temperature resistance	by use of high temperature resistant materials and components



Technical Data Type C02

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





 Trade mark
 thermik

 Type / version
 02

 NST [°C]. Tolerance [K]
 125.05

More varieties of the type series 02:

• S02 –with connector cables; with or without epoxy; insulation: Mylar®-Nomex®

• L02 – with connector cables; with epoxy; fully insulated in a screw on housing

• N02 – with a connection wire; partially insulated in a plastic cap

• C02 Pin – with pins; with epoxy; without insulation

www.thermik.de/data/S02 www.thermik.de/data/L02 www.thermik.de/data/N02 www.thermik.de/data/C02-Pin



