

THERMAL CUT-OUT TH 476

Description

The thermal cut-out is a single unit. The sensor and switching system are assembled and secured in a brass housing. On the body there is a hexagon OK 27 and a thread M22x1.5, by which the fuse is fixed in the designated hole. The connection terminals are flat pins, size 6.3. Next to the connection terminals is a pin for manual connection of the switching system. The connection terminals are electrically isolated from the fuse body. The switch head is non-removable connected to the body of the thermal cut-out.

Intended usage

The thermal cut-out TH 476 does not serve as a main switch. The cut-out is designed to disconnect the electrical circuit in the event that the temperature of the environment in which the fuse sensor is located reaches the opening temperature and a higher temperature for this environment is inaccessible. The switching system allows the manual opening and connecting of a DC electrical circuit. The operating position is vibration-proof according to EN 60 068-2-6. It is recommended to discuss special application conditions with the manufacturer in advance.

Installation

Installation and connection of the thermal cut-out to the electrical circuit may only be carried out by a person qualified according to decree no. 50/1978 §6 or by a professional service worker. The following recommendations must be followed during installation:

- The thermal cut-out is to be fixed in the threaded hole M22x1.5, which must be connected with a ground wire, using key No. 27, fixing must not be done by gripping the flat pins on the switch head
- The fastening thread is M22x1,5 6h
- Connection to the electrical circuit is made using flat pins, the size of the connectors 6,3x0,8 according to ČSN EN 61 210
- Connection terminals must be located in a normal environment AB5, AE1, AM1, AN1, BE1
- The cut-out's body mustn't come into contact with aggressive substances that are corrosive to brass
- Only install the thermal cut-out in the equipment specified in these operating instructions (class I), where permanent and reliable connection of the housing to the protective terminal must be ensured, so that the terminals are under a non-removable cover of min. IP 40.
- Re-connection under operating conditions can only be carried out by a person with a minimum qualification according to decree no. 50/1978 Sb. §6, by pressing pin located in the head, while the cut-out is disconnected from the power supply.

Technical data

The thermal cut-out is manufactured in opening version (R).

Nominal opening temperature	35 ± 115°C
Accuracy of nominal temperature setting	±2°C (A) ±4°C (B)
Rated voltage and current	24 V, 6 A ss
Lifetime	300 cycles
Vibration resistance	5 g
Weight	approx. 64 g
Ingress protection	IP 00

The switching temperature is set so that the switch is switched on at temperatures below 10°C without external force. An external force applied to the control pin can cause the switch to trip when the temperature drops by at least 15°C or more below the nominal opening temperature.

Impact on other products

Due to the operation of the contacts at TH, there is a short-term fluctuation of the voltage on the contacts, which is superposed to the power supply wave shape.

Storage conditions

Thermostats can be stored in closed, ventilated spaces in the temperature range of -25°C to +60°C with relative humidity of max. 80%. The thread and connecting terminals mustn't be damaged during storage and handling

Disposal

Disposal is carried out in the following way: Hand over to collection raw materials.

Possible minor faults and their removal

Possible minor faults are removed exclusively by the manufacturer.

Warranty

If the thermostat is placed and used in accordance with the instructions given in the installation and operating instructions, the manufacturer provides a warranty according to the current law, unless otherwise agreed.

The manufacturer will refuse warranty repair if the device has been damaged:

- During transport and storage by the customer or his customers
- During assembly or dismantling on the equipment of the customer or his customers
- In case of improper handling and installation in equipment other than is specified in the instructions
- If the thermostat has been exposed to an environment other than specified on the instruction

Warranty and post-warranty repairs

Warranty and post-warranty repairs are provided by the manufacturer. Pack the defective product and send it to following address:

APATOR POWOGAZ CZECHIA s.r.o.

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787 01 Šumperk

Czech Republic

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E-mail: prodej@metra-su.cz

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