

SAFETY THERMAL CUT-OUT 89.00



Application

For heat generators with temperatures up to 350°C

Features

Electro-mechanical safety thermal cut-out (STB) with capillary sensor approved to DIN EN 14597 and EN60730-1/2-9

- If cut-out temperature is exceeded, circuit switches to OFF or changeover and stays in this position
- Fail safe design: Expansion liquid loss results in opening of contact C-1
- Manuell resetting after sensing element has cooled by at least 10K
- Single-pole micro switch with on/off or change-over switch
- Time factor of sensing element better than DIN EN 14597
- Temperature compensated switching head
- Operation type 2.B.H.K.L.P (EN60730)
- RoHS-conform
- DIN CERTCO Registernumber: TR1107

Technical data

Switching system

Endurance class	1.000 operations	
Nominal voltage/current	C-1	C-2
250 V AC	16 (3,5) A	4 (0.6) A
Protection against electric shock	for incorporation in class I equipment I	
Protection standard of housing	IP00 (EN 60 529)	
Overvoltage category	II	

Range of application

Cut-out temperature	60 ... 350°C
• fixed adjustmen	110...85°C, 120...95°C,
• adjustable	130...100°C
Max. sensing element temp	$t_{aus} + 25K$
Ambiant temperature at switching head	max. 85 °C (T85)
Storage and transport temperature	-25...+60 °C

Calibration

Calibrated for ambient temperature at switching head	23°C or 50°C (Tu23/Tu50 according to DIN EN 14597)
Calibration tolerance	- 4 K, max 6%

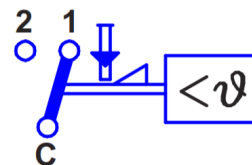
Drift	2 K
Time factor in water / in oil	< 45 s / < 60 s

Design

Capillary und sensing element	copper / stainless steel
Capillary length	500 ... 3500 mm
Phial forms	3, 4, 5, 6, 6.5, 7, 8,
• round, diameter	9.5, 10, 11, 12 mm
• half-, third-, quater circle	
Diaphragm	stainless steel
Connection and earthing terminals	Tab terminal A6.3x0.8 according to DIN46244

STB 89.00 is always supplied as switched off.

Connection



Storage

Safety thermal cut-out may be stored in enclosed ventilated spaces in the temperature range of -25 to +60 °C with relative humidity of max. 70 %. Protect the thermometer from impacts.

Possible minor faults and their removal

The safety thermal cut-out may be repaired only by the manufacturer.

Warranty

According to the current law unless otherwise agreed.

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

- during transport and storage by the purchaser or his customers
- during assembly or disassembly in the purchaser's or his customer's appliance.
- during incompetent handling and installation in another appliance than stated in the manual.
- if the thermometer was in a different environment than stated in the manual.

Disposal

Take the product to a scrap yard.

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Warranty and post-warranty repairs

All repairs are provided by the manufacturer. Wrap the faulty product and ship to the address below:

APATOR METRA s.r.o.
Havlíčková 919/24
787 01 Šumperk

Tel.: 583 718 263
Fax: 583 718 150
E-mail: prodej@metra-su.cz
www: <http://www.metra-su.cz>