Bimetal Snap Action Thermostats

Limiter, Manual reset, Thermo relay, One shot

For safety reasons, almost all electrical appliances have a temperature control, or some form of protection against overheating. Our bimetal thermostats are particularly suited to this purpose. With their small shape, their reliability and their high performance ratings, the use of these thermostats can provide optimum protection for a wide range of equipment.

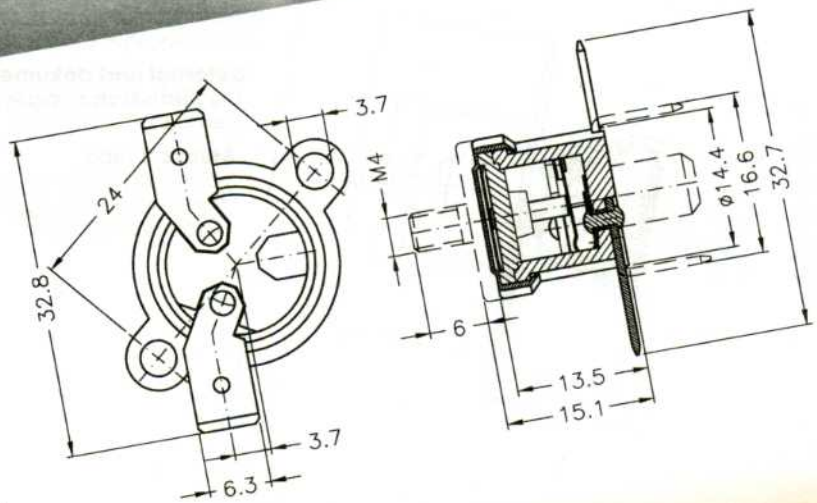
Examples of possible applications:
Electrical household appliances such as:
• coffee-makers • washing-machines • water boilers • dishwashers
• clothes dryers • heaters • cooking tops
They can also be used in: • industrial plants • machine tools • electrical apparatus
• rail-borne vehicles • mechanical engineering • automotive etc.

The bimetal thermostats have proved their worth a million times in the last 50 years. Their use is easy and they protect against overheating, indicate operational readiness, control sequences and processes or prevent damages if the appliances are used improperly.

New **double-riveted** fast-on connectors and a solid silver contact guarantees the lowest possible contact resistance (average 3,5 mOhm) between the terminals.
This thermostat is therefore particularly insensitive to current.

Gold-plated contacts are offered for thermal voltages. To ensure good, unrestricted heat transmission, the thermal switch must be fitted with the flat surface facing the heat source of the appliance to be protected. The bimetallic disc which lies directly behind the metal cap facilitates the thermal coupling with the heat source.

When the upper temperature is reached, the thermostat breaks (KO) or makes (KS) the contact. After cooling down, the switch is reversed. Manual reset type (KB) must be set back mechanically.



Technical Data

Contact type
Break, make

Nominal voltage
AC 250V, 50Hz

Electrical endurance
100.000 cycles
Rated current
10 (1.6)A

Electrical endurance
10.000 cycles
Rated current
16 (6)A

Temperature range
45 - 180°C

Tolerance
±3°/±5°/±10°C

Differential
A = ≤15K
B = to consumer's specification
C = ≤40K
D = ≥25K ≤40K
K = ≤10K

Degree of protection
IP40 (protected against dirt and casting resin)

Maximum ambient temperature
200°C

Dielectric strength (cap against contacts)
2.000V eff. 50Hz 1min.

Electric strength over opened contacts
500V eff. 50Hz

Min. speed of temperature change
0.5K/min.

Contact resistance
≤5 mOhm, gold-plated contacts on request

Fast-on terminals
Nominal size 6.3 x 0.8 according to DIN 46244. When selecting the nominal size of the fast-on terminals, please note the rated current in accordance with DIN, VDE 0631

Produced and documented according to quality assurance system
DIN ISO 9001

Standard quality
Production-related unit inspection dielectric voltage test response and reset temperature test (limit check) and chattering test

Approval
VDE/UL applied

MK MÜLLER ING
MANNHEIMER STR. 14
D-75179 PFORZHEIM
TEL + 49 72 31/15 83 11
FAX + 49 72 31/15 83 20