BULB THERMOSTATS

Bulb thermostats (or capillary thermostats) are devices in which the bulb contains the sensitive element and is positioned at a distance from the switch, to which it is connected by a slender connection tube known as the capillary. Those made by Milano Componenti are adjustable, fixed, or safety electrical thermostats, used as components for industrial use and characterized by high levels of safety and reliability.

The series offers two thermostat models: MZA and WYF.

CERTIFICATION

Milano Componenti bulb thermostats are UL and VDE approved.

APPLICATIONS

Mainly used in the cooking and washing sectors (water heaters, boilers, washing machines, electric ovens, deep-fryers and grills) and, in general, all applications that require temperature control.

MZA

WYF

TECHNICAL SPECIFICATIONS TECNICHE

Range of adjustment from -35°C to 320°C
Working range tolerance from 3K to 12K
Standard differential from 1K to 17K
Max ambient temperature 110°C
Torque shaft dial < 0.4 Nm
Life > 100.000 cycles

Breaking capacity
C-1: 15(3)A AC 400 V
C-2: 3 (0.6)A AC 400 V

MONTAGGIO

Secondo dima, oppure con vite autofilettante da 3,5 mm nell’apposito foro di fissaggio su staffa del Cliente.
BIMETALLIC THERMOSTATS

The Milano Componenti KSD 301 Series comprises a wide range of bimetallic thermostats (or disc thermostats), with extremely compact dimensions and fitted with a snap-action trip device.

CERTIFICATION

Milano Componenti bimetallic thermostats are UL and VDE approved.

APPLICATIONS

Milano Componenti disc thermostats are mainly used in:

- domestic appliances
- cable reels
- electric heaters
- heat exchangers

MATERIALS

Our bimetallic thermostats can have a body in a phenolic or ceramic material.

SPECIAL VERSIONS

These bimetallic thermostats are available in various versions: with temperature holding function (NA or NC contacts), control functions, and even as safety thermostats (manual reset device and an NC contact).

On request and for sufficient quantities, Milano Componenti also develops special versions to the client’s design.

OPERATION

Reaching a predetermined temperature triggers thermostat operation, causing a snap action of the metal disc. This is mechanically connected to a contact-carrier bridge and thus opens the contacts.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Working temperature</th>
<th>Opening tolerance</th>
<th>Closing tolerance</th>
<th>Max working temperature</th>
<th>Life (in cycles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤100 °C</td>
<td>+/- 3°C</td>
<td>+/- 5°C</td>
<td>190°C</td>
<td>100,000</td>
</tr>
<tr>
<td>151°C ~ 170°C</td>
<td>+/- 4°C</td>
<td>+/- 8°C</td>
<td>210°C</td>
<td>30,000</td>
</tr>
<tr>
<td>171°C ~ 210°C</td>
<td>+/- 5°C</td>
<td>+/-10°C</td>
<td>250°C</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Reset: automatic or manual
Mounting: flange or M4 screw
Terminals: faston 6.3 x 0.8 / 4.8 x 0.8
Faston terminal orientation: H (horizontal) – V (vertical)
Temperature range: to order
THERMAL PROTECTORS
The Milano Componenti series of snap-action thermal protectors with automatic reset comprises two distinct models: MST22 and MST12. They are characterized by high heat response and are highly effective and safe products.

CERTIFICATION
Milano Componenti thermal protectors are UL and VDE approved.

APPLICATIONS
- MST22: thermal protection against overheating of electric motors, battery chargers, transformers, solenoids, heat distribution systems and fluorescent inspection lamps.
- MST12: thermal protection against overheating for hairdryers, electric fans, popcorn machines, electric ovens and dryers.

MATERIALS
Thermoplastic casing in high-quality, insulated polybutylene terephthalate (PBT), 100% waterproof (only MST22)

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>MST22</th>
<th>MST12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature scale (no load)</td>
<td>from 65°C to 150°C</td>
<td></td>
</tr>
<tr>
<td>Tolerance</td>
<td>± 5°C</td>
<td></td>
</tr>
<tr>
<td>On-off temperature differential (general)</td>
<td>30 ± 15K</td>
<td></td>
</tr>
<tr>
<td>Heat resistance</td>
<td>Opening temperature +50°C/continuous, 200°C/1 min</td>
<td></td>
</tr>
<tr>
<td>Life in cycles (resistive load)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST22</td>
<td>8A/125V 10,000 cycles</td>
<td>15A/125V 6,000 cycles</td>
</tr>
<tr>
<td>MST12</td>
<td>5A/250V 10,000 cycles</td>
<td>10A/250V 6,000 cycles</td>
</tr>
<tr>
<td>Contact capacities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST22</td>
<td>minimum current 50mA/ continuous</td>
<td>minimum current 100mA/ continuous</td>
</tr>
<tr>
<td>MST12</td>
<td>maximum current 30A/5 cycles</td>
<td>maximum current 30A/5 cycles</td>
</tr>
<tr>
<td>Contact mode</td>
<td>NC</td>
<td></td>
</tr>
</tbody>
</table>