

Thermal Overload Protector BM-1



Description

The Thermal Overload Protector type BM-1 is an electro-mechanical safety device, which provides complete protection to your electrical equipments against over-heating and over-loading and mechanical malfunctions. After temperature cooling down the thermo switch closes it's contacts again (auto reset function).

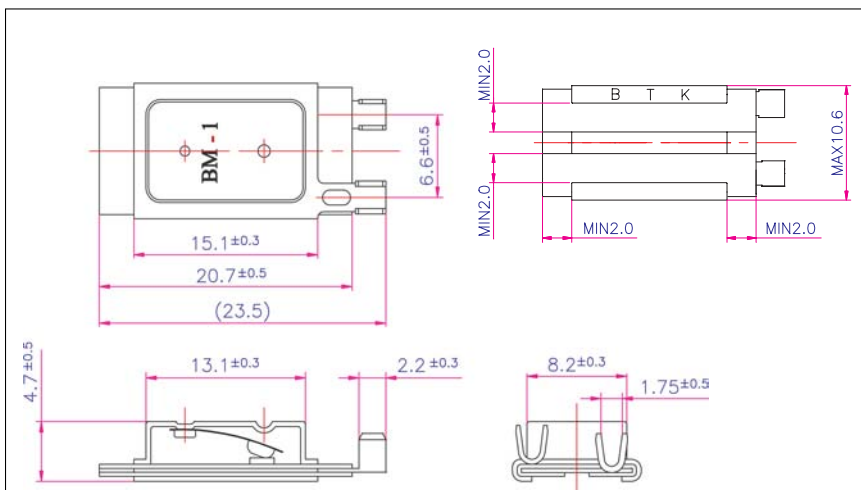
The BM-1 response determined by current sensitive. This property can be influenced by selection of different kind of bimetal material. UL and VDE approval are existing. BM-1 is available with blanc terminals or with connecting leads. Insulation of housing by sleeving available. For use under vacuum conditions, please use the sealed version of the BM-1.

- High contact rating
- High crushing strength
- Slight current sensitive
- High temperature sensitivity
- Short reaction time

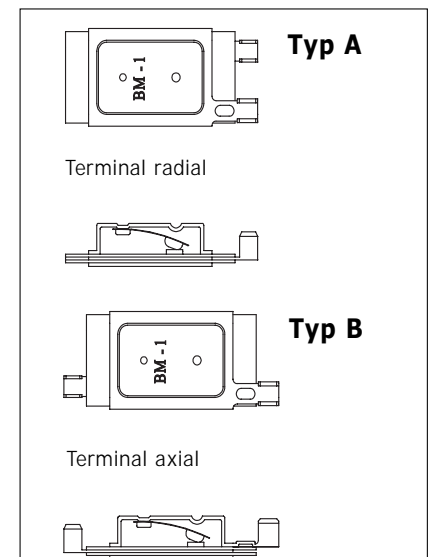
Typical applications

to protect household equipment, electrical motors, transformers, electrical ballast, etc.

Dimensions



Terminal configurations



Technical Specifications Thermal Overload Protector BM-1

| Code | Switching Temperature °C | | Tolerance |
|------|--------------------------|-------------|-----------|
| | Open Temp. | Close Temp. | |
| 045 | 45°C ± 5 | 34°C | ± 15 |
| 050 | 50°C ± 5 | 38°C | ± 15 |
| 055 | 55°C ± 5 | 42°C | ± 15 |
| 060 | 60°C ± 5 | 46°C | ± 15 |
| 065 | 65°C ± 5 | 50°C | ± 15 |
| 070 | 70°C ± 5 | 52°C | ± 15 |
| 075 | 75°C ± 5 | 54°C | ± 15 |
| 080 | 80°C ± 5 | 56°C | ± 15 |
| 085 | 85°C ± 5 | 58°C | ± 15 |
| 090 | 90°C ± 5 | 60°C | ± 15 |
| 095 | 95°C ± 5 | 62°C | ± 15 |
| 100 | 100°C ± 5 | 65°C | ± 15 |
| 105 | 105°C ± 5 | 68°C | ± 15 |
| 110 | 110°C ± 5 | 71°C | ± 15 |
| 115 | 115°C ± 5 | 74°C | ± 15 |
| 120 | 120°C ± 5 | 77°C | ± 15 |
| 125 | 125°C ± 5 | 80°C | ± 15 |
| 130 | 130°C ± 5 | 83°C | ± 15 |
| 135 | 135°C ± 5 | 86°C | ± 15 |
| 140 | 140°C ± 5 | 90°C | ± 15 |
| 145 | 145°C ± 5 | 94°C | ± 15 |
| 150 | 150°C ± 5 | 98°C | ± 15 |
| 155 | 155°C ± 5 | 115°C | ± 15 |
| 160 | 160°C ± 5 | 120°C | ± 15 |
| 170 | 170°C ± 5 | 125°C | ± 15 |

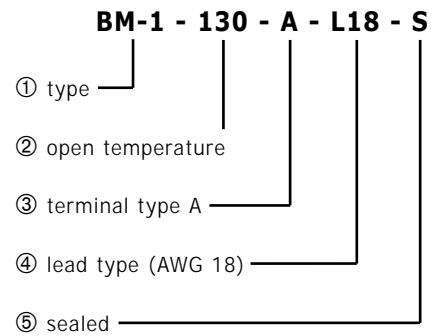
| Lead type | |
|-------------------|---------------|
| Type | Lead |
| N | without leads |
| L18 | AWG 18 |
| L20 | AWG 20 |
| others on inquiry | |

| Contact rating | |
|----------------------------|--------------|
| 20 Amp / 16 Vdc | 6000 cycles |
| 20 Amp / 125 Vac | 6000 cycles |
| 8 Amp, cos 1,00 / 250 Vac | 10000 cycles |
| 20 Amp, cos 0,45 / 250 Vac | 1000 cycles |

Select the right TOP for your application:

1. Value of the cut-off current
2. Opening temperature

Coding system



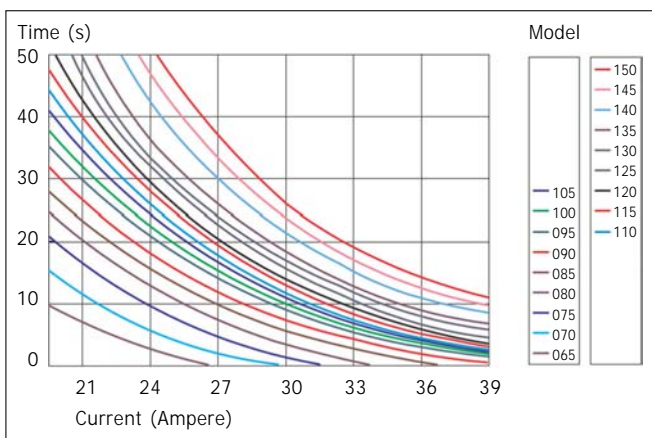
Close temperature is reference for the customer

Especially for low temperatures the minimum hysteresis is 10% from opening temperature.

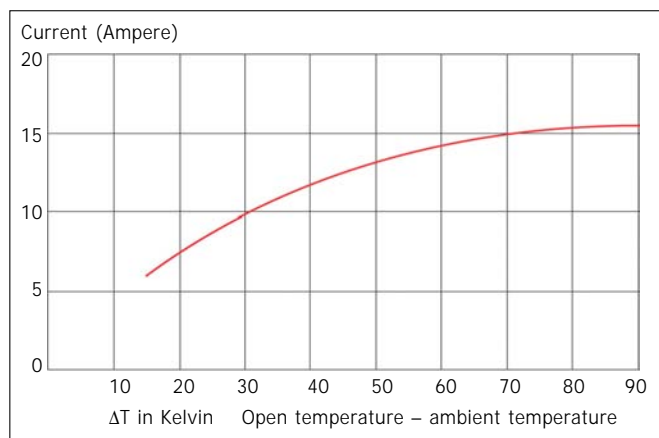
Certifications

VDE 61445/18438. EN 60730-1;2-2;2-3, UL/CSA E 225267, XEW R2/XEW R8, conform to RoHS

Average First Cycle Tripping Time vs. Current



Ultimate Trip Current vs. Ambient Temperature



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Distribución de componentes eléctricos y electrónicos