

Introduction of Product

Product use:

The AM03 series of Overheat Protector is a kind of overheat protect production which rated current is up to 5 A, being mainly used for overheat protection caused by non-normal working status of single-phase motor (AC 50 Hz, 220 V) and plastic sealed motor. It also can be used for overheat protection and temperature control in heating, fluorescent lamps rectifier, transformer, integrated circuit...etc. general electric equipments.

Structure characteristics:

The AM03 series of Overheat Protector uses fix-formed dual-sheet metals to be thermal sensing reaction component.

When the heat caused by the temperature or electric current increasing is transmitted to dual-sheet metals and is up to an scheduled number, The contact will be interrupted and the circuit will be turned off. When the temperature descends to scheduled initial value, dual-sheet metals recovers quickly, making the contact to close, connecting the circuit.

There are two kinds of protector with different shells. One uses engineering plastics which can resist high temperature and fire. The other uses metals. It have some characteristics including small and intelligent volume, high sensitivity, large capacity contact, long life span etc.



Basic parameter:

Rated Voltage / Rated Current: AC 250 V/5 A ,DC 12,24,36 V/5 A

Rated Break Temperature: 40-150°C ,5°C is one stage, standard deviation of break temperature is $\pm 5^{\circ}\text{C}$

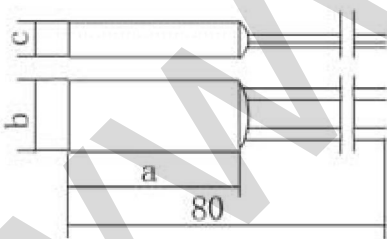
Reset Temperature: reset temperature is 5-50°C

lower than scheduled break temperature, allowed

deviation of resets temperature: $\pm 15^{\circ}\text{C}$

Models	Material of Shell	a(mm)	b(mm)	c(mm)
TO AM03-XXXm	Ironic	15	6.7	3.1
TO AM03-XXX	Plastic	15	7.2	3.8

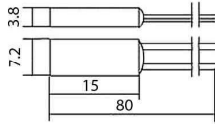
Shape and installation size:



Technique parameter:

Rated Voltage	AC 250V	Insulation Resistance	$\geq 100\text{M}\Omega$
Rated Current	5 A	Pressure Resistance	2KV
Contact Resistance	$\leq 50\text{m}\Omega$	Mechanical Life	• 10000 times

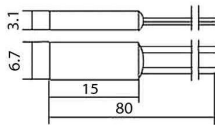
**Bimetallic thermostats - AM03 serie
plastic case with autoreset**



- Normally closed
- Max. voltage 250V
- Rated current 5A
- Contact resistance $\leq 50M\Omega$
- Insulation resistance $> 100M\Omega$
- Mechanical life > 10000 counts

Part No.	Opening temp.	Closing temp.
TO AM03-045	45±5°C	35±8°C
TO AM03-050	50±5°C	35±8°C
TO AM03-055	55±5°C	35±10°C
TO AM03-060	60±5°C	40±10°C
TO AM03-065	65±5°C	45±12°C
TO AM03-070	70±5°C	45±15°C
TO AM03-075	75±5°C	50±15°C
TO AM03-080	80±5°C	55±15°C
TO AM03-085	85±5°C	55±15°C
TO AM03-090	90±5°C	60±15°C
TO AM03-095	95±5°C	65±15°C
TO AM03-100	100±5°C	65±15°C
TO AM03-105	105±5°C	70±15°C
TO AM03-110	110±5°C	75±15°C
TO AM03-115	115±5°C	75±15°C
TO AM03-120	120±5°C	80±15°C
TO AM03-125	125±5°C	85±15°C
TO AM03-130	130±5°C	85±15°C
TO AM03-135	135±5°C	90±15°C
TO AM03-140	140±5°C	95±15°C
TO AM03-145	145±5°C	95±15°C
TO AM03-150	150±5°C	100±15°C

**Bimetallic thermostats - AM03 serie
metal case with autoreset**



- Normally closed
- Max. voltage 250V
- Rated current 6A
- Contact resistance $\leq 50M\Omega$
- Insulation resistance $> 100M\Omega$
- Mechanical life > 10000 counts

Part No.	Opening temp.	Closing temp.
TO AM03-045m	45±5°C	35±8°C
TO AM03-050m	50±5°C	35±8°C
TO AM03-055m	55±5°C	35±10°C
TO AM03-060m	60±5°C	40±10°C
TO AM03-065m	65±5°C	45±12°C
TO AM03-070m	70±5°C	45±15°C
TO AM03-075m	75±5°C	50±15°C
TO AM03-080m	80±5°C	55±15°C
TO AM03-085m	85±5°C	55±15°C
TO AM03-090m	90±5°C	60±15°C
TO AM03-095m	95±5°C	65±15°C
TO AM03-100m	100±5°C	65±15°C
TO AM03-105m	105±5°C	70±15°C
TO AM03-110m	110±5°C	75±15°C
TO AM03-115m	115±5°C	75±15°C
TO AM03-120m	120±5°C	80±15°C
TO AM03-125m	125±5°C	85±15°C
TO AM03-130m	130±5°C	85±15°C
TO AM03-135m	135±5°C	90±15°C
TO AM03-140m	140±5°C	95±15°C
TO AM03-145m	145±5°C	95±15°C
TO AM03-150m	150±5°C	100±15°C