

## 17AMI Thermal Protector Specification

### 1, 17AMI series thermal/motor protector construction:

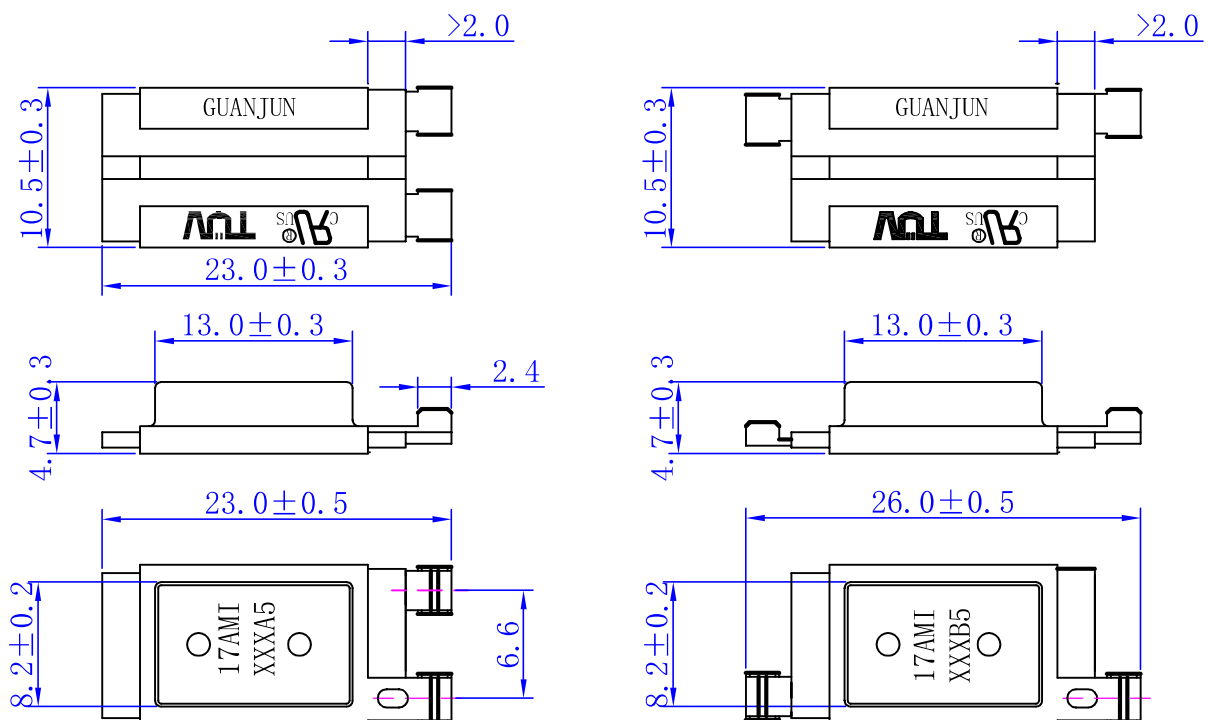
1、17AMI series are overcurrent and thermal protector products,small size and quick response, It has been widely used in precise controlling of temperature limited or current limited components in motor,transfomer etc.

2、17AMI thermal protector products's principle:current following through the bimetal strip two contacts,when an electric appliance under non normal work status,the temperature or current reach the max limitation for OFF,the bimetal strip will break off immediately and cut off the circuit.When the electric appliance back to normal temperature the bimetal will close immediately and connect the circuit.This thermal protector has automatic reset function.

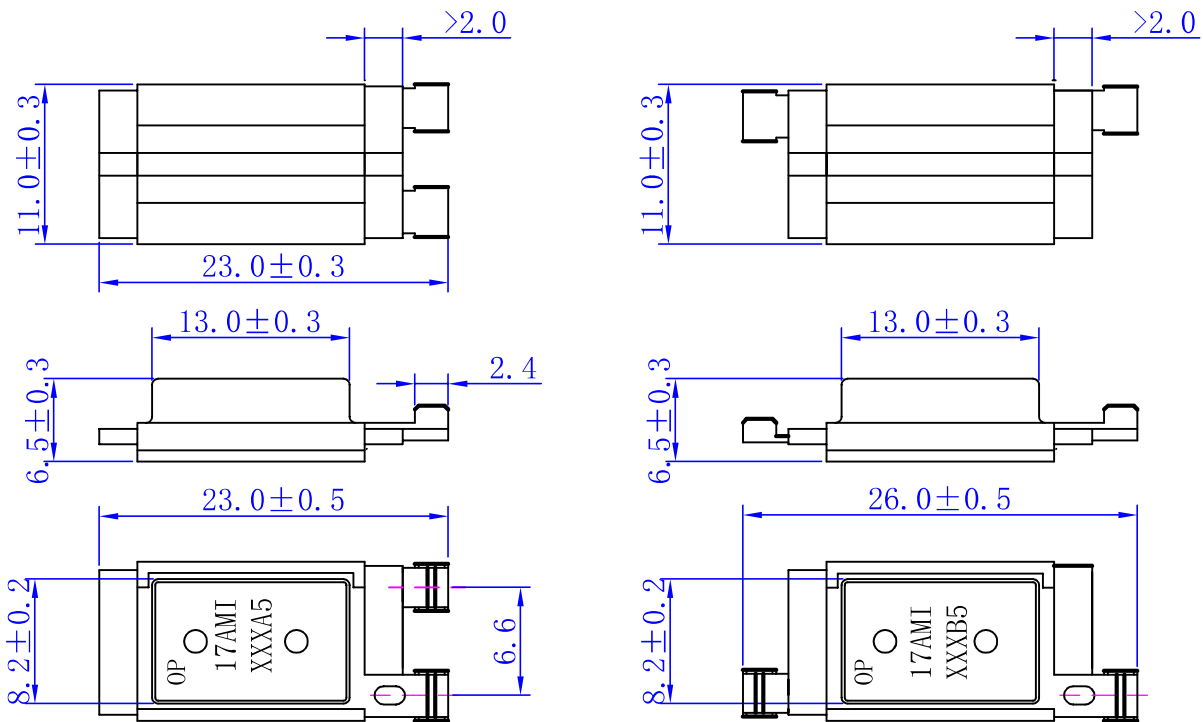
3、17AMIOP series products are added PTC based on 17AMI.The power-off protection and delay protection effect,this type requires cut off the circuit then reset to work status,with reliable and safe characteristic.

4、17AMIRP series products are added thermal compensation resistor based on 17AMIOP which original type is manual reset,this provide a precise overcurrent protection.This type could be adjusted based on customer's different current or time requirements,this type also requires cut off the circuit then reset to work status,with reliable and safe characteristic.

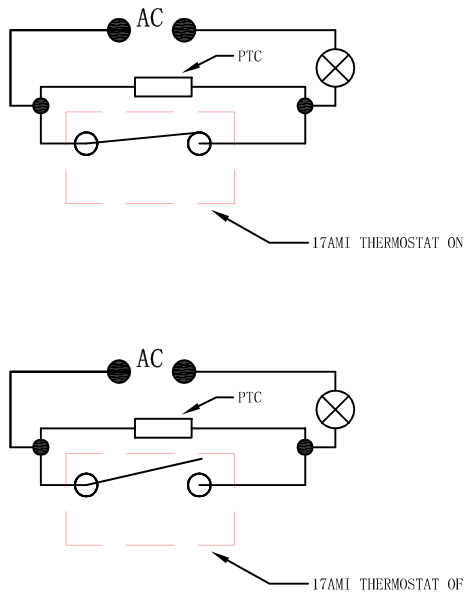
### 2、17AMI series thermal/motor protector dimension chart:



17AMI Thermal Protector Specification

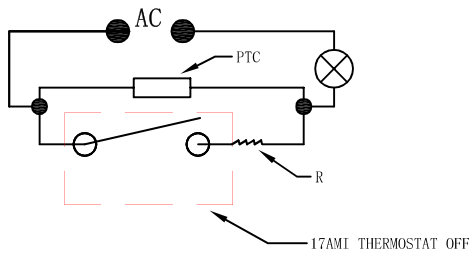
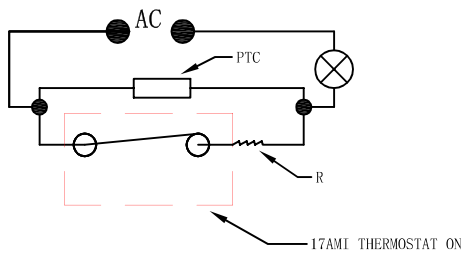


3、17AMIOP/17AMIRP series thermal/motor protector structure chart:



1. 17AMI thermal protector and PTC develop into parallel circuit, the PTC temperature will be not increased under normal work load, 17AMI thermal protector under normal open status.
2. When work load unnormal (current or temperature increased), 17AMI thermal protector will open immediately, PTC generate heat and keep circuit closed, keep the 17AMI thermal protector under normal open, then the appliance will be not work and protected.
3. After cut off circuit, PTC stop generate heat, 17AMI thermal protector back to close status, the appliance could be work normally.

## 17AMI Thermal Protector Specification



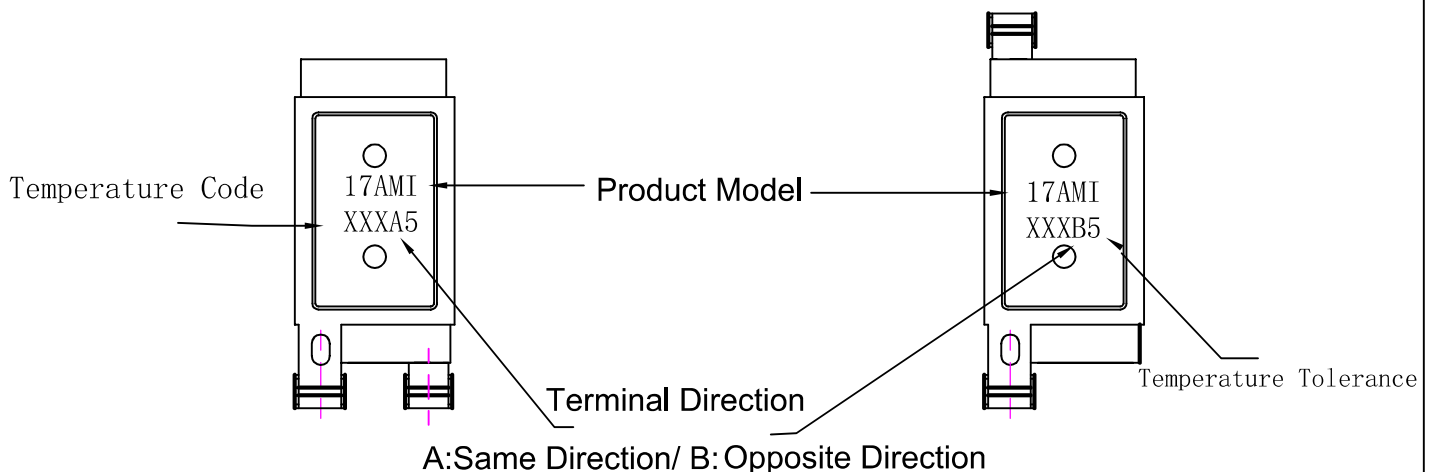
1. 17AMI thermal protector and PTC/Resistor R develop into parallel circuit, the PTC/R temperature will be not increased under normal work load, 17AMI thermal protector under normal open status.

2. When work load unnormal (current or temperature increased), resistor R will generate heat immediately and 17AMI thermal protector will open correspondingly, PTC generate heat and keep circuit closed, keep the 17AMI thermal protector under normal open, then the appliance will be not work and protected.

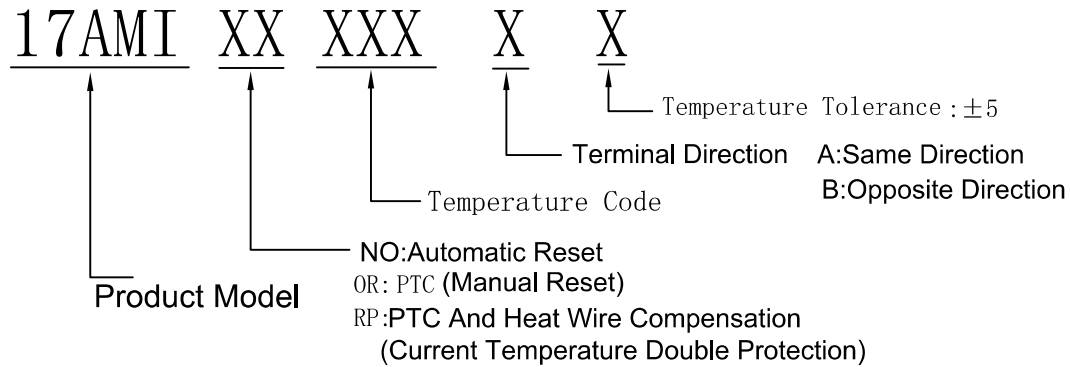
3. After cut off circuit, PTC stop generate heat, 17AMI thermal protector back to close status, the appliance could be work normally.

4. Based on 17AMI thermal protector the Resistor R is added and this provide the function of Resistor R generate heat immediately when current load is increased, this process will compensate the thermal protector and provide this type thermal protector with priority of quick response and short time .

### 4. 17AMI series thermal/motor protector model numbering system :



## 17AMI Thermal Protector Specification



5、17AMI series thermal/motor protector trip off temperature in code:

Temperature Code	OFF Temperature	Temperature Code	OFF Temperature
020A5/020B5	65°	030A5/030B5	115°
021A5/021B5	70°	031A5/031B5	120°
022A5/022B5	75°	032A5/032B5	125°
023A5/023B5	80°	033A5/033B5	130°
024A5/024B5	85°	034A5/034B5	135°
025A5/025B5	90°	035A5/035B5	140°
026A5/026B5	95°	036A5/036B5	145°
027A5/027B5	100°	037A5/037B5	150°
028A5/028B5	105°	038A5/038B5	155°
029A5/029B5	110°	039A5/039B5	160°

6、17AMI series thermal/motor protector test:

### Mechanical Properties

- 1、Terminals should endure more than 50N, and terminals should be no loose and leads have no rupture and slipping.

### Electrical Properties

- 1、The outgoing lines or terminals of the thermal protector and insulated sleeves shall endure voltage of 1500V and duration of 1 min, without arc over.
- 2、Contact resistance: contact resistance of thermal protector should be less than 50 Ω.