

## TB11 Automatic reset series

### New type motor thermal protector

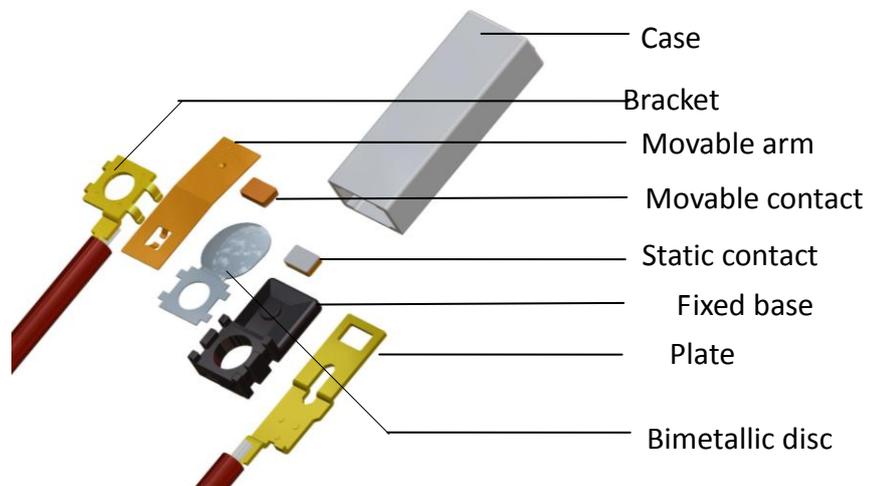
#### Product summary:

TB11 series protector is a new type of motor protector, which is designed to achieve stable, reliable and long service life. It is widely used in the field of rolling gate motor, fan motor and electric heating.

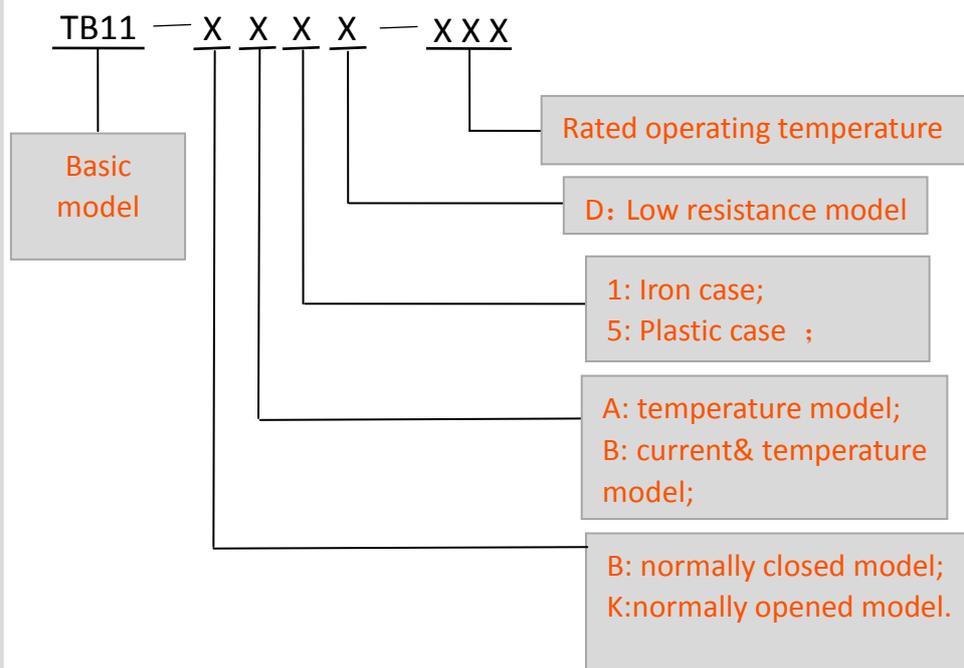
- Jump type double metal sheet has high reliability and repeatability;
- Compact structure, compact. The installation method is various, simple and convenient;
- The cantilever structure without flashing;
- The cantilever structure current self heating effect is weak, to facilitate the use of customer distribution;
- Can increase the self function;
- Can customize the special specification according to customers' requirements.

#### Structure:

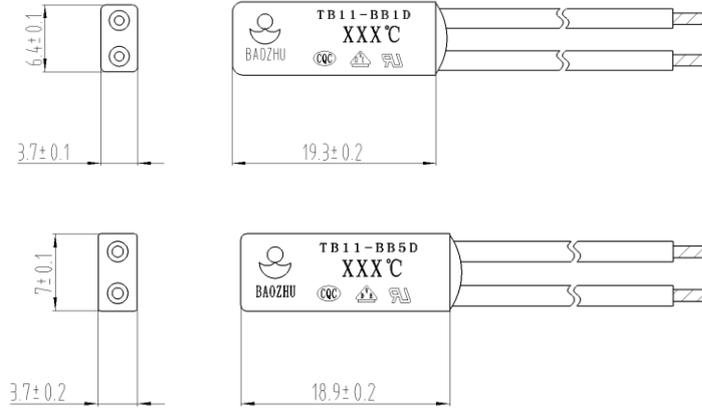
##### Ordinary model



#### Coding system:



Boundary dimension:



Specifications:

Standard operating temperature range	45 °C ~160 °C ( per level 5°C )
operating temperature tolerance	±3°C、±5°C、±8°C
Reset temperature tolerance	±10°C、±15°C
Maximum ambient temperature	180°C

Contact rating:

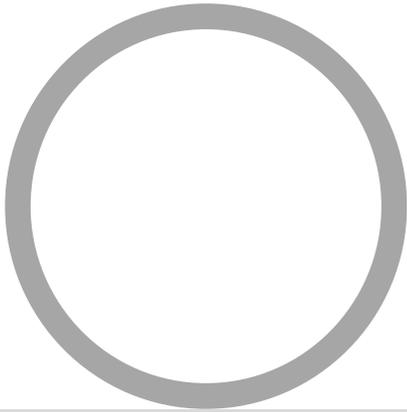
AC250V 11A、AC115V 13A 10000 cycles
DC24V 15A、DC12V 17A 10000 cycles

Certificates :

Certification authority	Certificate No.	Standard	Remark
UL	E305764		
VDE	40039391		
CQC	CQC12002086117		
ISO9001	00114Q25892R3M/3 200		

Electric parameter:

Product code	Applicable voltage	Lead wire voltage	Remarks
TB11-BB1D	AC 0~250V DC0~24V	AC660V	Ordinary model
TB11-BB5D			
TB11-KA1D			
TB11-KA5D			



## TB11 delayed reset series

### Embedded PTC type thermal protector

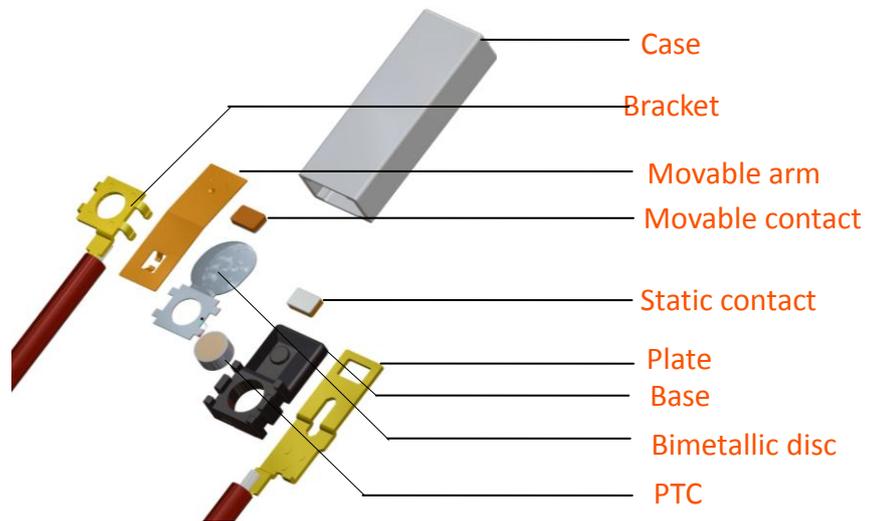
#### Product summary:

TB11-BY series protector is a new type of overheat protector. In the conventional protector circuit parallel connected PTC, when the protection device in case of thermal contact breaking PTC began continued to double metal original heating, forcing it to not automatically reset. And parallel PTC circuit to enhance the product arc resistance, greatly extend the service life. It is widely used in the field of electrical machines, such as the safety requirements of the class of stirring motor.

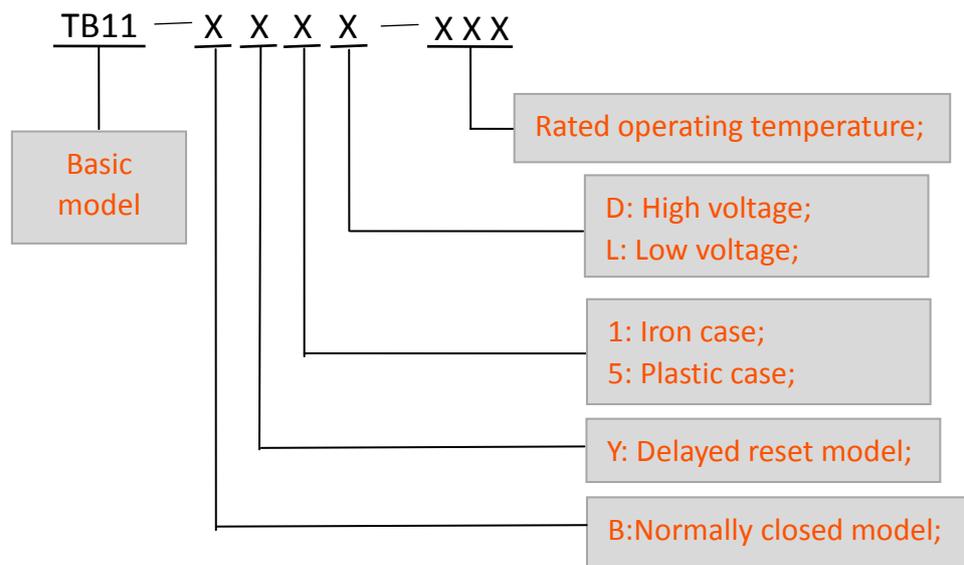
- The high reliability and repeatability of the process of double metal plates;
- Compact structure, compact. The installation method is various, simple and convenient;
- The cantilever structure without flashing;
- The cantilever structure current self heating effect is weak, the convenience of customers with the use of;
- Can customize the special specification according to customers' requirements.

#### Structure:

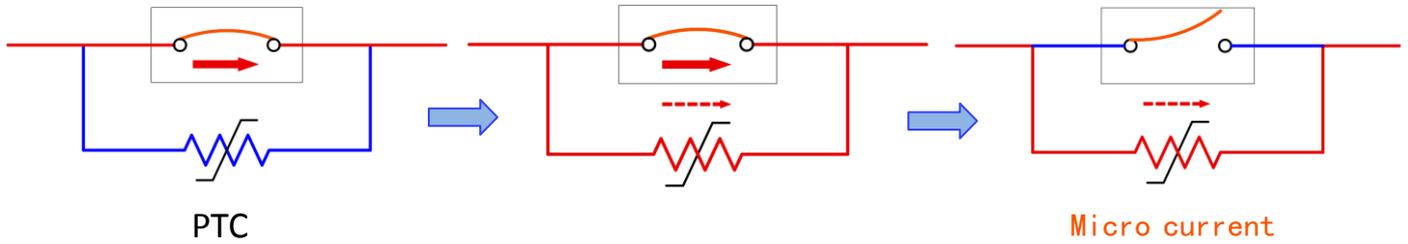
Self-sustaining model



#### Coding system:



**Working principle:**



1. In normal operation, the contact resistance is much less than the PTC resistance, the current flows through the mobile arm, PTC does not work.

2. Ambient temperature increases, the moving arm to open the moment, the contact resistance close to the PTC resistance, the current transfer part to PTC, PTC shunt arc extinguishing.

3. Movable arm open, the contact resistance is far greater than the PTC resistance, the voltage is loaded to the PTC ends, the tiny current flows through the PTC, PTC began to work.

**Specifications:**

**High voltage**

Standard operating temperature range	45 °C ~ 140 °C (per level 5 °C)
Action temperature tolerance	±3 °C、±5 °C、±8 °C
Reset temperature tolerance	±10 °C、±15 °C
Maximum ambient temperature	180 °C

**Low voltage**

Standard operating temperature range	45 °C ~ 100 °C (per level 5 °C)
Action temperature tolerance	±3 °C、±5 °C、±8 °C
Reset temperature tolerance	±10 °C、±15 °C
Maximum ambient temperature	180 °C

**Electric parameter:**

Product code	Applicable voltage	Lead wire voltage	Remarks
TB11-BY1D	AC110V~250V	AC550V	High voltage model
TB11-BY5D			
TB11-BY1L	DC9V~24V	DC60V	Low voltage model
TB11-BY5L			