

## 17AME+PTC 断电复位保护器 Self-hold thermal protector

17AME+PTC 断电复位保护器是17AME热保护器的派生产品，它在17AME热保护器基础上设置了发热元件，使其具有断电保护、延时保护功能，其保护器功能更可靠、安全。主要应用于吸尘器、粉碎机、搅拌机、割草机、电动工具等电机的过热、过流保护。



### 产品特性

- 具有断电保护、延时保护功能；
- 更高的可靠安全性能；
- 更适合于电机的异常保护；
- 套管密封，可防止绝缘漆之类物质浸入。

### 应用范围

- 吸尘器、粉碎机、搅拌机、割草机
- 电动工具、扫雪机
- 家用电器、发热电器

17AME+PTC is the assembly of a 17AME protector and a heating PTC. It has power cut and self-hold functions, which makes it safer than common auto reset model. It is applicable to the over-heat and over-current protection of vacuum cleaner, blender, mixer, grass cutter and electrical tools.



### Special Features

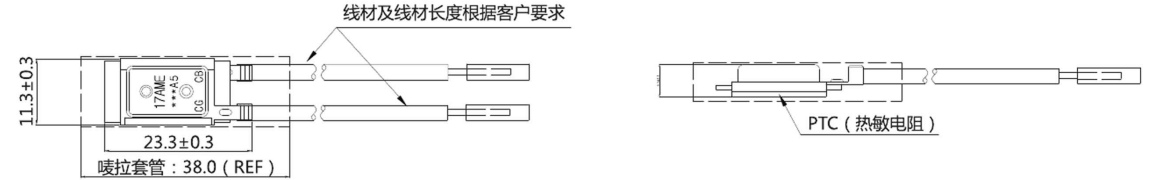
- With power protection, delay protection function;
- More safe and reliable performance;
- Better suited to abnormal motor protection.
- Casing seal to prevent insulating paint like substance immersion.

### Application

- Vacuum cleaner, mixer, grass cutter
- Electrical tools
- Home appliances, heating appliances

## 尺寸图 Dimensional Drawings

型号MODELS 17AME+PTC



### 电气规格

#### Electrical Specifications

- 参照17AME热保护器电气规格  
Refer to model 17AME

### 温度范围及公差

#### Temperature Range and Tolerance

参照17AME热保护温度代号对照表  
Refer to 17AME temperature code

动作温度公差  
Operating temperature tolerance

±3°C, ±5°C

### 套管密封

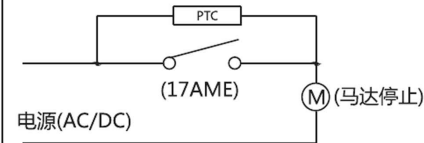
#### Casing seal

### 认证:

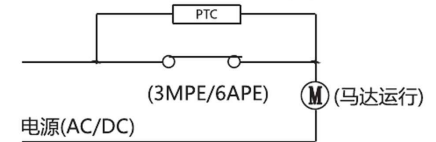
#### Certification

- UL&CUL: E258612

### 工作原理Working principle :



17AME热保护器与PTC形成并联电路，然后与负载（马达）串联。负载正常运行时PTC不会产生高温。  
The protector is connected to PTC in parallel, then connected to Application in series. When the application is working normally, the current will flow through protector. PTC will not work.



当负载异常时产生的高温或大电流会使 17AME热保护器断路，此时 PTC元件会产生高温及高阻值（PTC的高温会使17AME热保护器一直保持于断路状态），负载停止运行。  
当电源被手动断开后，PTC开始降温，经过一定时间降温后17AME保护器自动复位，再次接通电源，负载运转。

When the application works abnormally, which causes the ambient temperature exceeds the prescribed value, the protector will open. Then, the current flows through PTC. Since PTC has a very high resistance, the current assigned to the application will be too low to start it. Meanwhile, the heat generated by PTC will remain the protector open until the power is unplugged.  
After the power is unplugged, the ambient temperature will decrease and then, the protector will close again.