

6APE/3MPE+PTC 断电复位保护器 Power reset protector

6APE/3MPE+PTC断电复位保护器是五岳电器在越来越多的客户需求非自动复位的马达保护装置研究开发的，它确保了设备更高级别的安全性。



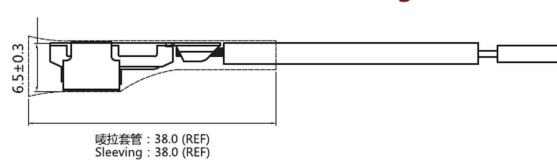
产品特性

- 具有断电保护、延时保护功能；
- 为有转动件的备提供更高级别的保护；
- 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
- 洗衣机、家用电器、发热元件、烘手器

尺寸图 Dimensional Drawings



6APE/3MPE+PTC is a self hold protector that was developed upon our customers' demands. It can provide higher level safety protection.

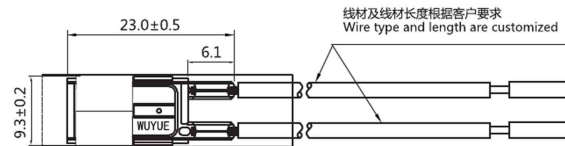


Special features

- Self holding and time-delay protection;
- Providing higher safety protection;
- Applicable to protect abnormal operation of motor.

Application

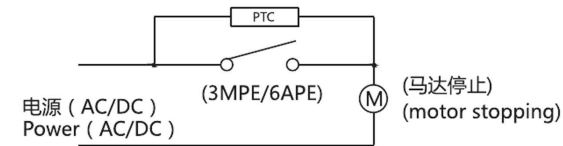
- Cleaner, mixer, grinder, grass cutter
- Electrical tools, snow cleaner
- Washing machine, appliances, heating elements



跳闸电气规格 Electrical Specifications

- 45A / 12V DC
- 20A / 24V DC
- 18A / 250V AC
- 28A / 125V AC
- R/T25°C电力测试标准：4-10 S
(可按客户要求制定)

工作原理 Works



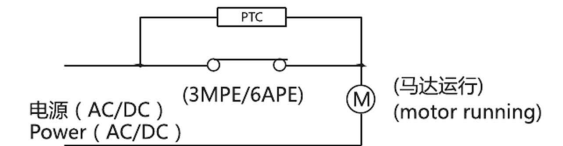
6APE热保护器与PTC形成并联电路，然后与负载(马达)串联，负载正常运行时PTC不会产生高温。

当负载异常时产生的高温或大电流会使6APE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6APE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6APE保护器自动复位，再次接通电源，负载运转。

温度范围及公差 Temperature Range and Tolerance

动作温度 Operating temperature
50~180°C
动作温度公差 Operating temperature tolerance
±5°C, ±7°C



The protector is connected to PTC in parallel, then connecting to Application in series. When the application is working normally, the current will flow through protector. PTC will not work.

When the application works abnormally, which causes the ambient temperature to exceed 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.