

# TPH10 系列单相功率控制器

## TPH series single phase power controller

第二代  
Second Generation



### 产品用途 Application

TPH10系列功率控制器是新推出的一款高性价比产品。该功率控制器是在上一代产品的基础上全面优化升级，外观更为简洁大方，用户接口更加方便。TPH10系列功率控制器可广泛应用于各领域的阻性负载、变压器一次侧的控制。

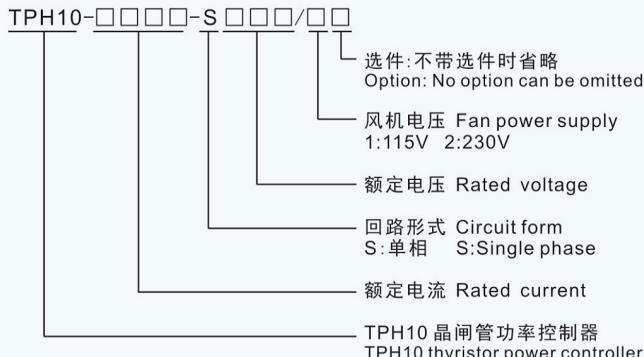
TPH10 series power controller is a new high cost products. On the basis of the last generation of products, the power controller is comprehensive optimization and upgrading, appearance is more concise and easy, user interface is more convenient. TPH10 series power controller can be widely used in various fields of resistance load, transformer primary side control.

### 产品特点 Features

- 全数字化控制，高精度、高稳定性
- 具有有效值和平均值控制
- 具备多种控制方式供选择
- 支持英杰电气第二代专利功率分配选件，有效减小对电网的冲击，提高供电安全性
- LED 键盘显示，操作方便，支持键盘显示外引
- 采用窄体设计，结构紧凑，安装方便
- 标准配置：RS485通讯接口，支持Modbus通讯；支持Profibus-DP通讯（选件）

- Full digital control, high precision, high stability
- With RMS and average control
- With a variety of control methods
- In support of the second generation of patented power allocation options, effectively reduce the impact on the power grid, improve power supply security
- LED keyboard display, easy to operate, support for the keyboard external display
- Narrow body design, compact structure, easy to install
- Standard configuration: RS485 communication interface, support Modbus communication, support Profibus-DP communication (option)

## 型号定义 Model Definition



型号 Model	额定电流(A) Rated current	外形尺寸(mm) Dimensions (L×W×D)	重量(kg) Weight	冷却方式 Cooling mode
TPH10-0025-S□□□	25	260×87×172	3.3	自然 冷却  Natural cooled
TPH10-0040-S□□□	40		3.3	
TPH10-0075-S□□□	75	260×87×207	4	
TPH10-0100-S□□□	100		5	
TPH10-0150-S□□□	150		5.3	
TPH10-0200-S□□□	200		8	
TPH10-0250-S□□□	250	355×125×247	8	
TPH10-0350-S□□□	350		10	
TPH10-0450-S□□□	450	360×125×272	11	
TPH10-0500-S□□□	500		11	
TPH10-0600-S□□□	600		17	
TPH10-0700-S□□□	700	471×186×283	17	

## 规格参数 Specification

输入	
主回路电源	AC230V、400V、500V、690V, 50/60Hz
控制电源	AC110~240V, 20W
风机电源	AC115V、AC230V, 50/60Hz
输出	
额定电压	主回路电源电压的0~98% (移相控制)
额定电流	见型号定义
运行模式	移相触发、调功定周期、调功变周期
控制方式	$\alpha$ 、U、I、 $U^2$ 、 $I^2$ 、P
控制信号	模拟、数字、通讯
负载性质	阻性负载、感性负载
性能指标	
控制精度	1%
稳定度	$\leq 0.2\%$
接口描述	
模拟输入	2路 (AI1:DC 4~20mA; AI2:DC 0~5V/0~10V)
模拟输出	2路 (DC 4~20mA/0~20mA)
开关输入	3路常开
开关输出	1路常开
通讯	标准配置: RS485通讯接口, 支持Modbus通讯 选件: 支持Profibus-DP通讯

Input	
Main circuit power supply	AC230V、400V、500V、690V, 50/60Hz
Control power supply	AC110~240V, 20W
Fan power supply	AC115V、AC230V, 50/60Hz
Output	
Rated voltage	0 ~ 98% of main circuit supply voltage (phase shift control)
Rated current	see model definition
Operation mode	phase shift trigger, the power regulating fixed period, the power regulating variable period
Control mode	$\alpha$ 、U、I、 $U^2$ 、 $I^2$ 、P
Control signal	analog, digital, communication
Load characteristics	resistive load, inductive load
Performance index	
Control accuracy	1%
Stability	$\leq 0.2\%$
Interface description	
Analog input	2 ports (AI1:DC 4~20mA; AI2:DC 0~5V/0~10V)
Analog output	2 ports (DC 4~20mA/0~20mA)
Banary input	3 ports normally open
Banary Output	1 port normally open
Communication	Standard configuration: RS485 communication interface, support Modbus communication; Options: support Profibus-DP communication

版本号: 152 CL20180813.本资料所涉及内容、图片等知识产权均归属于本公司，未经授权不得使用。图中内容以实物为准，本公司具有最终解释权。  
Version number: 152 CL20180813. The information, pictures and other intellectual property rights involved in the content are attributable to the company, without authorization shall not be used. The pictures of the contents in kind prevail, the company has the final interpretation right.



地址: 四川省德阳市金沙江西路686号  
销售热线: 0838-2900585、586  
传真: 0838-2900985  
邮箱: [inject@inject.cn](mailto:inject@inject.cn)  
网址: [www.inject.cn](http://www.inject.cn)

ADD: NO.686 West Jinshajiang Road, Deyang City, Sichuan Province, P.R.China  
Sale: 0838-2900585、586  
Fax: 0838-2900985  
E-mail: [inject@inject.cn](mailto:inject@inject.cn)  
Web: [www.inject.cn](http://www.inject.cn)