

KTY1S 系列单相晶闸管功率控制器

KTY1S series single-phase thyristor power controller



产品用途 Application

产品广泛应用于工业电炉、机械设备、玻璃工业、汽车工业、化学工业等行业领域。

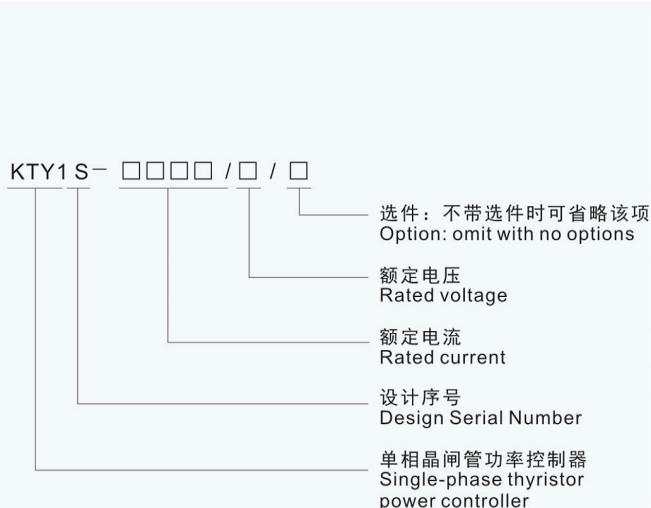
Products are widely used in industrial electric furnace, mechanical equipment, glass industry, automobile industry, chemical industry and other industries.

产品特点 Features

- 全数字化控制
- 集成开环、恒压、恒流、恒功率、调功(过零)控制、LZ (移相过零) 控制、联机功率分配等功能于一体
- 具有有效值 (RMS) 控制选件，实现有效值控制
- 具备多路开关量和模拟量的编程接口
- 输入、输出接口均采用隔离技术，抗干扰能力强
- 调功使用时，可联机分配功率，减小对电网的冲击
- 标准配置RS485通讯接口
- 具有单路或双路Profibus-DP通讯选件

- All digital control
- Integrated open loop, constant voltage, constant current, constant power, power regulating(zero) control , LZ (phase shift zero) control, on line power distribution functions
- RMS control option, achieve RMS control
- Multiplex binary and analog programming interface
- Input and output interfaces adopt isolation technology, strong anti-jamming capability
- Online power distribution when power regulating , reduce the impact to the grid
- Standard RS485 communication interface
- Single or dual Profibus-DP communication options

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 U≤500V)	重量(kg) Weight	冷却方式 Cooling mode
KTY1S-0025	25	270×137×148	4.0	自冷 Self-cooling
KTY1S-0040	40			
KTY1S-0075	75			
KTY1S-0100	100			
KTY1S-0150	150			
KTY1S-0200	200			
KTY1S-0250	250			
KTY1S-0300	300			
KTY1S-0350	350			
KTY1S-0450	450			
KTY1S-0600	600			
KTY1S-0800	800			
KTY1S-1000	1000			
KTY1S-1500	1500			
KTY1S-2000	2000	670×264×323	32	风冷 Air-cooling
KTY1S-2500	2500			
KTY1S-3000	3000			
		570×203×266	17.5	
		750×270×350	37	
		柜式 Cabinet style	58	
		64		
		66		

规格参数 Specification Parameter

输入	
主回路电源	KTY1S-****: AC100~400V, 30~65Hz KTY1S-****/5: AC500V, 30~65Hz KTY1S-****/6: >AC500V, 30~65Hz
控制电源	AC100~400V, 0.5A, 50/60Hz
风机电源	AC220V, 50/60Hz
输出	
输出电压	主回路电源电压的0~98% (移相控制)
额定电流	见型号定义
控制方式	开环、恒压、恒流、恒功率、调功(过零)、LZ控制
控制信号	模拟、数字、通讯
负载性质	电阻性、电感性
性能指标	
控制精度	≤ 1%
稳定度	≤ 0.2%
接口描述	
模拟量输入	4路可编程输入
开关量输入	1路固定输入, 2路可编程输入
模拟量输出	2路可编程输出
开关量输出	2路可编程输出
通讯	标准配置:单RS485通讯接口, 支持Modbus RTU通讯; 支持Modbus TCP通讯(选件); 支持单/双Profibus-DP通讯(选件)

Input	
Main circuit	KTY1S-****: AC100~400V, 30~65Hz KTY1S-****/5: AC500V, 30~65Hz KTY1S-****/6: >AC500V, 30~65Hz
Control power	AC100~400V, 0.5A, 50/60Hz
Fan power	AC220V, 50/60Hz
Output	
Output voltage	Main circuit power supply voltage of 0 ~ 98% (phase shift control)
Rated current	See model definition
Control mode	Open loop, constant voltage, constant current, constant power, power control (zero), LZ
Control signal	Analog, digital, communications
Load character	Resistive and inductive
Performance Index	
Control accuracy	≤ 1%
Stability	≤ 0.2%
Interface Description	
Analog input	4 road programmable input
Binary input	1 road fixed input, 2 road programmable input
Analog output	2 road programmable output
Binary output	2 road programmable output
Communication	Standard configuration: single RS485 communication interface, support the Modbus RTU communication; support the Modbus TCP communications (option); support single/double Profibus-DP communication (option)

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