

特性 Features

- LED指示灯 LED indicator light
- TRIAC输出或SCR输出 TRIAC Output or SCR Output
- 负载电流 Load current : 10A, 16A, 25A
- 直流驱动 DC Drive
- 可选防护盖 Optional protective cover
- 介质耐压 Dielectric strength :4000Vrms
- 可选内置RC/MOV, TVS 保护 Internal RC/MOV, TVS protection Circuit (Optional)
- 输出有交流过零型和交流随机型两种触发形式 There are two triggering forms for output: AC zero-cross type and AC random type
- 保护壳可选 Protective Cover KPC-2A Optional



典型应用 Application

- 适用于高低温箱, 塑料机械, 孵化机, 注油机, 空调, 照明, 喷泉控制器等场合。 Suitable for high and low temperature box, plastic machinery, hatching machine, oiler, air conditioning, lighting, fountain controller and other occasions.

输入参数 Input Specifications (Ta=25°C)

驱动电压范围 Drive Voltage Range	4-32VDC
确保导通电压 Must Turn-on Voltage	4VDC
确保关断电压 Must Turn-off Voltage	1VDC
最大输入电流 Max. Input Current	25mA

其他参数 General Specifications (Ta=25°C)

介质耐压 (输入/输出, 50Hz/60Hz) I/O Dielectric Strength (50Hz/60Hz)	输入/输出 Input/Output:4000Vrms 输入、输出/底板 Input、 Output/Base:2500Vrms
绝缘电阻(@500VDC) Min. Insulation Resistance @500VDC	1000MΩ
功率因数 Power Factor	>0.5
工作温度范围 Ambient Temperature Range(Operating)	-30°C~+80°C
储存温度范围 Ambient Temperature Range(Storage)	-30°C~+100°C
重量(典型值) Weight (Typical)	35g

输出参数 Output Specifications (Ta=25°C)

负载电压范围 Load Voltage Range	240VAC:24-280VAC 380VAC:24-440VAC
最大瞬态电压 Max. Peak Voltage	240VAC:600Vpk 380VAC:800Vpk
最大断态漏电流(@额定负载电压下) Max. Off-state Leakage Current @ Rated Load Voltage	5mA
最小断态电压指数上升率(dv/dt) Min. Off-State dv/dt @ Max. Rated Voltage	200V/μs
最大非重复电流上升率(di/dt) Maximun di/dt Non Repetitive	50A/uS
最大浪涌电流(@10ms) Max. 1 Cycle Surge Current @10ms	10A:120A 16A:160A 25A:250A
最大I ² t值(@10ms) Max. I ² t for Fusing @10ms	10A:50A ² s 16A:128A ² s 25A:312A ² s
最大导通压降(@额定负载电流下) Max. On-state Voltage Drop @ Rated Load Current	1.5Vrms
最大导通时间 Max. Turn-on Time	过零型 Zero-cross:10ms 随机型 Random-on: 1ms
最大关断时间 Max. Turn-off Time	10ms
使用频率 Operational Frequency Range	47-63Hz

■ 型号命名标准 Model Number Legend

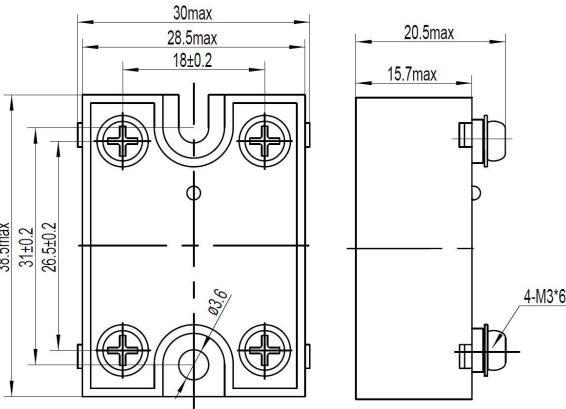
	STSIM	240	D	25	R	-L	T	,XXX
基本型号 Basic Type:	STSIM							
负载电压 Load Voltage:		240: 240VAC; 380: 380VAC						
驱动方式 Drive Type:			D: 直流控制 DC Control					
负载电流 Load Current:				10: 10A; 16: 16A; 25:25A				
触发形式 Trigger Type:					无 Blank: 过零导通 Zero-cross; R: 随机导通 Random			
指示灯 LED Indicator:						L: LED Indicator		
TVS保护 TVS Protection :							无 Blank: 标准型 Standard; M: 带MOV保护 with MOV Protection; T: TVS保护 with TVS	
特殊特性 Special Characteristic:								Blank: 标准型 Standard; XXX: 客户特殊特性号 Customer Special Feature Number; 045: 045快接端子 045 Quick Connection; 117: 117快接端子 117 Quick Connection 198: 198快接端子 198 Quick Connection KPC-2A: 保护外壳 Protective Cover

■ 具体型号列表 List of Models

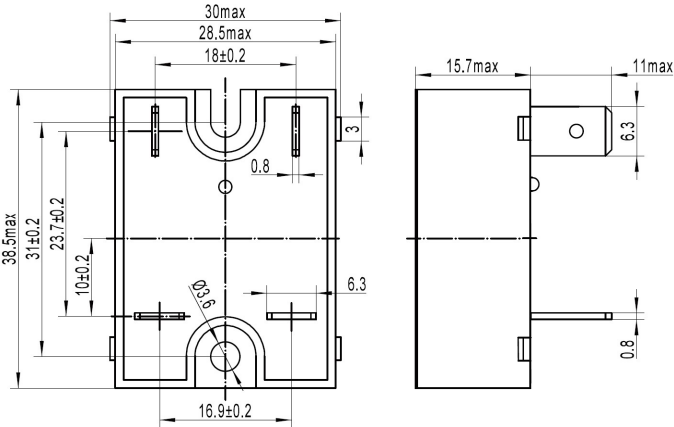
负载电压 Load Voltage	10A	16A	25A
240VAC	STSIM240D10-L	STSIM240D16-L	STSIM240D25-L
	STSIM240D10-LM	STSIM240D16-LM	STSIM240D25-LM
	STSIM240D10-LT	STSIM240D16-LT	STSIM240D25-LT
	STSIM240D10R-L	STSIM240D16R-L	STSIM240D25R-L
	STSIM240D10R-LM	STSIM240D16R-LM	STSIM240D25R-LM
	STSIM240D10R-LT	STSIM240D16R-LT	STSIM240D25R-LT
380VAC	STSIM380D10-L	STSIM380D16-L	STSIM380D25-L
	STSIM380D10-LM	STSIM380D16-LM	STSIM380D25-LM
	STSIM380D10-LT	STSIM380D16-LT	STSIM380D25-LT
	STSIM380D10R-L	STSIM380D16R-L	STSIM380D25R-L
	STSIM380D10R-LM	STSIM380D16R-LM	STSIM380D25R-LM
	STSIM380D10R-LT	STSIM380D16R-LT	STSIM380D25R-LT

■ 外形尺寸 Outline Dimensions

◆ 标准型 Standard

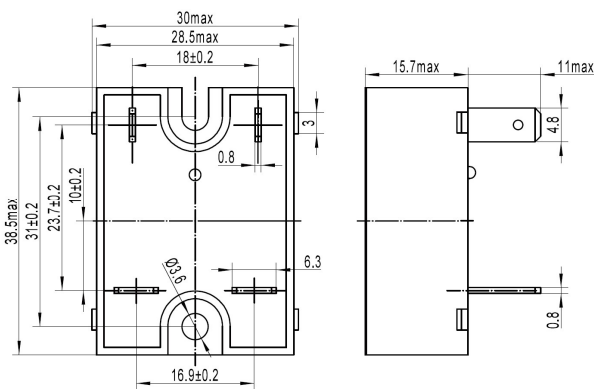


◆ 045快接端子 045 Quick Connection

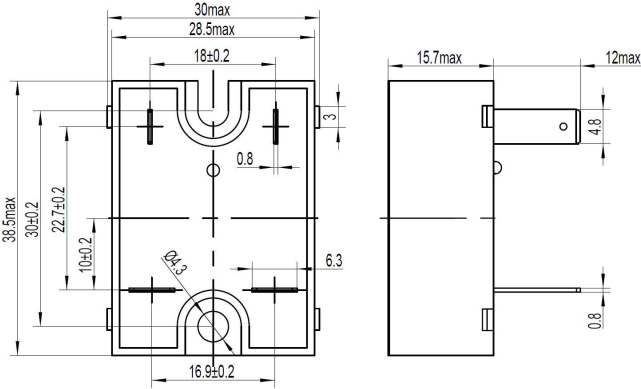


外形尺寸 Outline Dimensions

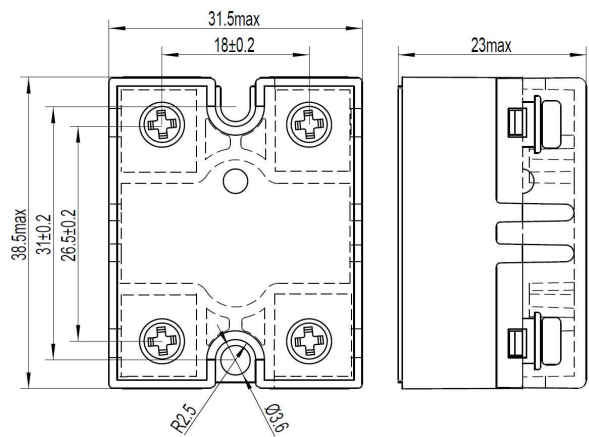
117快接端子 117 Quick Connection



198快接端子 198 Quick Connection



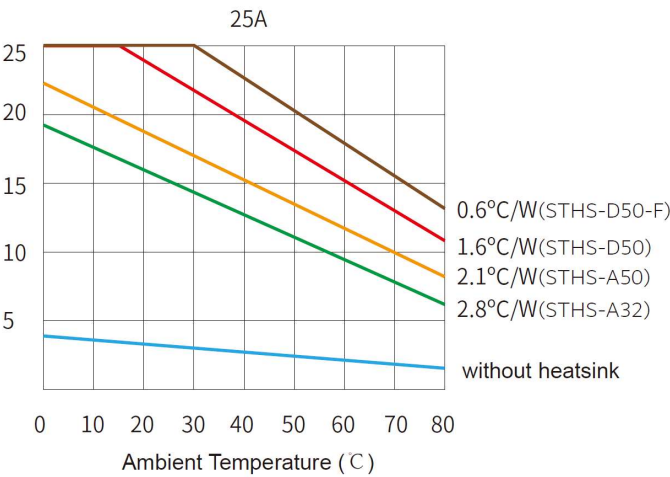
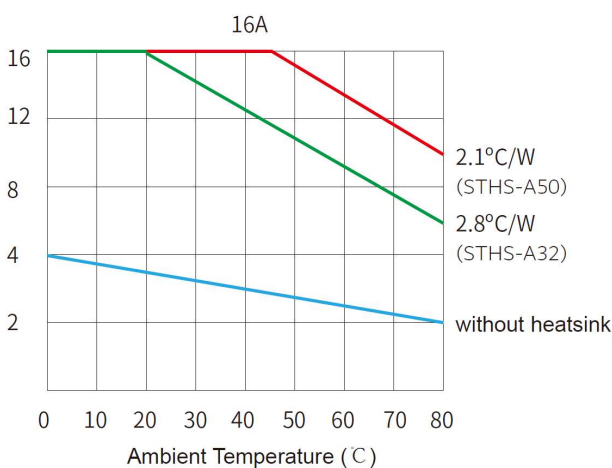
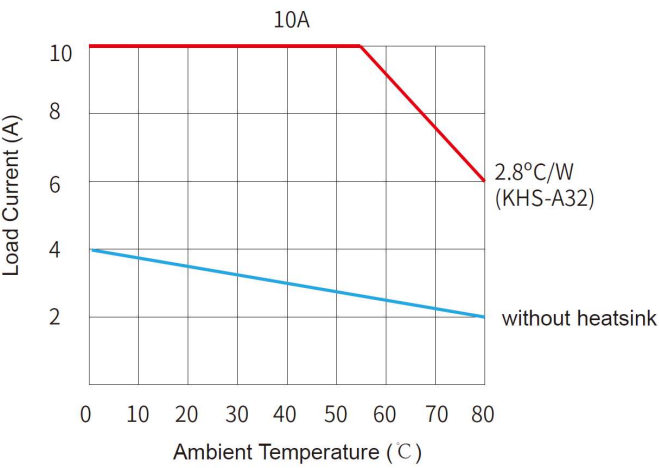
KPC-2A型号 KPC-2A Type



接线图 Wiring Diagram

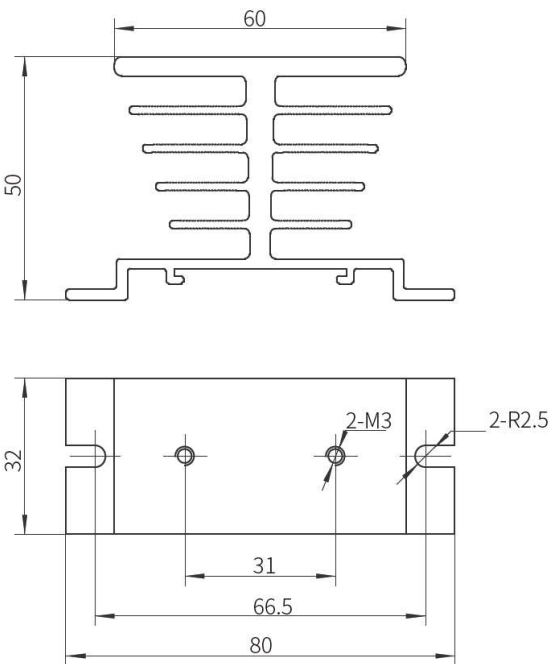


■ 温度曲线 Thermal Derating Curve



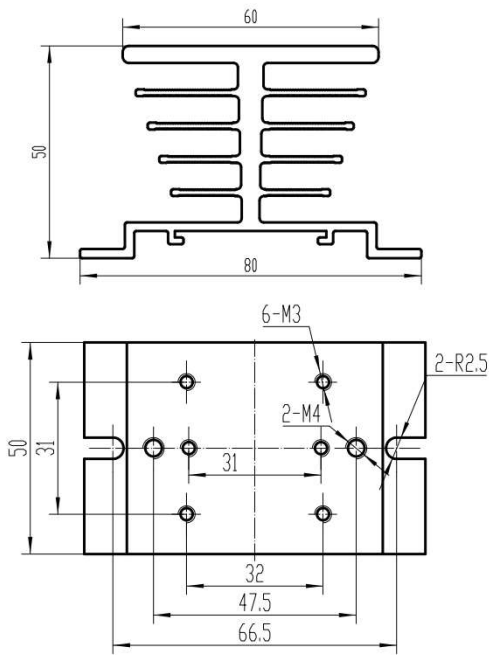
■ 以上温度曲线配置散热器型号如下 The Above Temperature Curve Is Configured With The Following Radiator Models

◆ STHS-A32

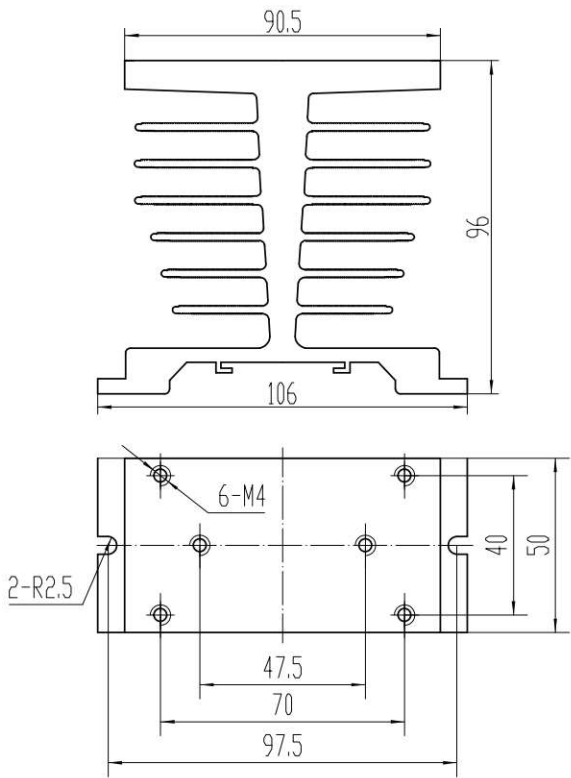


■ 以上温度曲线配置散热器型号如下 The Above Temperature Curve Is Configured With The Following Radiator Models

◆ STHS-A50

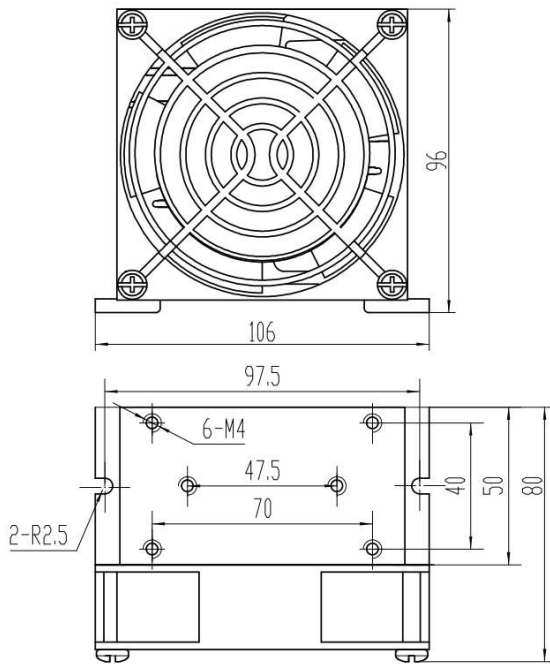


◆ STHS-D50



■ 以上温度曲线配置散热器型号如下 The Above Temperature Curve Is Configured With The Following Radiator Models

◆ STHS-D50-F



■ 使用注意事项 Precautions for Use

1. 继电器工作产生的热量需通过底板散出，需确保继电器底板与散热器接触紧密、安装牢靠，且接触面需加导热垫片或涂覆导热硅脂。 The heat generated by the relay needs to be dissipated through the bottom plate. Ensure that the relay bottom plate is in close contact with the heat sink and installed securely, and the contact surface needs to be coated with thermal shims or thermal grease
2. 继电器端子应确保接线牢固，接线松弛会导致产品异常发热，损坏产品。M3端子的推荐安装扭矩为（0.58 ~ 0.98）N·m，M4端子的 推荐安装扭矩为（0.98 ~ 1.37）N·m。 The relay terminal should ensure that the wiring is firm, and the loose wiring will cause abnormal heat and damage the product. The recommended installation torque for M3 terminals is (0.58 ~ 0.98) N·m, and that for M4 terminalsThe recommended installation torque is (0.98 ~ 1.37) N·m
3. 产品工作的环境温度较高时，请参照温度曲线降额使用。 When ambient temperature is above 25℃, the maximum load current decreases. See thermal derating curve.

■ 安全警告 Safety warning

1. 使用过程中产品的侧面及底板会发热，请在冷却后再触摸。The side and bottom plate of the product will heat up during use, please touch it after cooling.
2. 安装或使用本产品前，请确保断开所有电源。 Before installing or using this product, ensure that all power supplies are disconnected.
3. 请检查所有连接是否妥当后再打开电源。 Please check that all connections are correct before turning on the power.

■ 认证标准 Approval standards

认证类型/certification type	测试标准/Test criteria
UL	UL508
	C22.2 No.14-13
CCC	GB/T14048.5-2017
CQC	GB/T14048.5-2017
TUV	EN 60947-1:2007/A2:2014
	EN 60947-4-3:2014
CE	EN 60947-1:2007/A2:2014
	EN 60947-4-3:2014