

特性 Features

- LED指示灯 LED indicator light
- SCR输出 SCR Output
- 负载电流 Load current : 30A-75A@24-660VAC
- 直流或交流驱动 DC or AC Drive
- 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



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	直流控制/DC Control	4-32VDC
	交流控制/AC Control	90-280VAC
确保导通电压 Must Turn-on Voltage	直流控制/DC Control	4VDC
	交流控制/AC Control	90VAC
确保关断电压 Must Turn-off Voltage	直流控制/DC Control	1VDC
	交流控制/AC Control	15VAC
最大输入电流 Max. Input Current	直流控制/DC Control	15mA(过零型 Zero Crossing) 18mA(随机型 Random-on)
	交流控制/AC Control	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	100MΩ
最小负载电流 Min. Load Current	100mA
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)	30A/50A: 100g 75A: 130g

输出参数 Output Specifications (Ta=25°C)

负载电压范围 Load Voltage Range	24-660VAC
最大瞬态电压 Max. Peak Voltage	1200Vpk
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	500V/μs
最大浪涌电流(@10ms) Max. 1 Cycle Surge Current @10ms	30A:400A 50A:600A 75A:800A
最大I ² t值(@10ms) Max. I ² t for Fusing @10ms	30A:800A ² s 50A:1800A ² s 75A:3200A ² s
最大导通压降(@额定负载电流下) Max. On-state Voltage Drop @ Rated Load Current	1.6Vrms
最大导通时间 Max. Turn-on Time	过零型 Zero-cross:10ms 随机型 Random-on: 1ms 交流控制 AC Control: 40ms
最大关断时间 Max. Turn-off Time	直流控制型 DC Control: 10ms 交流控制型 AC Control: 40ms
使用频率 Operational Frequency Range	47-63Hz

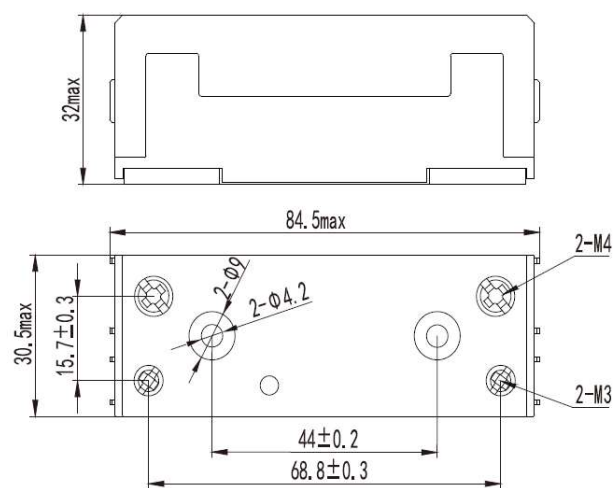
■ 型号命名标准 Model Number Legend

	STSU	600	D	30	R	-L	T	,XXX
基本型号 Basic Type:	STSU							
负载电压 Load Voltage:		600: 600VAC						
驱动方式 Drive Type:			D: 直流控制 DC Control A: 交流控制 AC Control					
负载电流 Load Current:				30: 30A; 50: 50A; 75: 75A				
触发形式 Trigger Type:					无 Blank: 过零导通 Zero-cross; R: 随机导通 Random-on			
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;

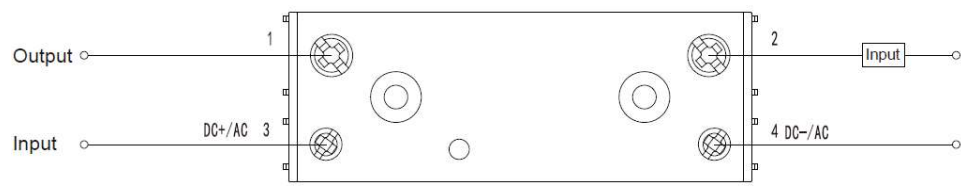
■ 具体型号列表 List of Models

		30A	50A	75A
D:4-32VDC	600V	STSU600D30-L	STSU600D50-L	STSU600D75-L
		STSU600D30-LM	STSU600D50-LM	STSU600D75-LM
		STSU600D30-LT	STSU600D50-LT	STSU600D75-LT
		STSU600D30R-L	STSU600D50R-L	STSU600D75R-L
		STSU600D30R-LM	STSU600D50R-LM	STSU600D75R-LM
		STSU600D30R-LT	STSU600D50R-LT	STSU600D75R-LT
A:90-280VAC	600V	STSU600A30-L	STSU600A50-L	STSU600A75-L
		STSU600A30-LM	STSU600A50-LM	STSU600A75-LM
		STSU600A30-LT	STSU600A50-LT	STSU600A75-LT
		STSU600A30R-L	STSU600A50R-L	STSU600A75R-L
		STSU600A30R-LM	STSU600A50R-LM	STSU600A75R-LM
		STSU600A30R-LT	STSU600A50R-LT	STSU600A75R-LT

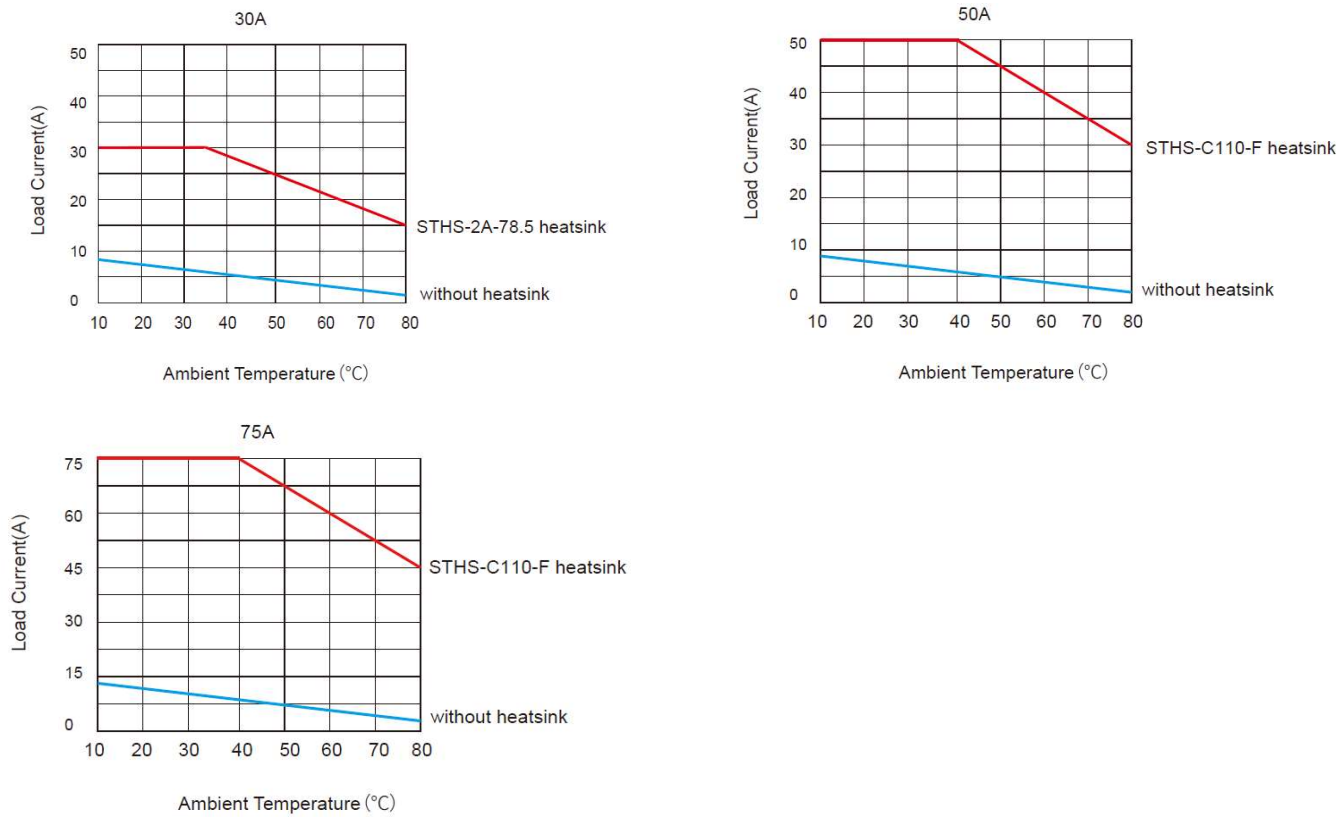
■ 外形尺寸 Outline Dimensions



■ 接线图 Wiring Diagram



■ 温度曲线 Thermal Derating Curve



■ 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°C, 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.