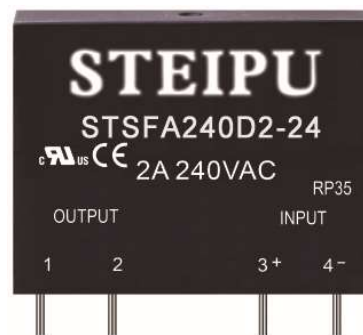


特性 Features

- TRIAC输出 TRIAC output
- 负载电流load current :2A、3A@24-440VAC
- 输入为直流驱动Input is DC Drive
- 驱动电压Drive voltage:5VDC、12VDC、24VDC
- 介质耐压Dielectric Strength :4000Vrms
- 电路板安装方式Circuit board installation method
- 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 input and output: AC zero crossing type and AC random type



典型应用 Application

- 适用于电路信号灯、矿用信号灯、自动售货机、医疗设备、电梯及电控门等多种场合Suitable for circuit signal light, mine signal light, vending machine, medical equipment, elevator and electric control door and other occasions.

输入参数 Input Specifications (Ta=25°C)

驱动电压范围 Drive Voltage Range	5	4-6VDC
	12	9.6-14.4VDC
	24	19.2-28.8VDC
确保导通电压/ Must Turn-on Voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
确保关断电压 Must Turn-off Voltage	1VDC	
最大驱动电流 Max. Drive Current	5	25mA (@6VDC)
	12	25mA (@14.4VDC)
	24	25mA (@28.8VDC)

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
负载电流范围 Load Current Range	2A:0.1-2A/3A:0.1-3A
最大浪涌电流(@10ms) Max. 1 Cycle Surge Current @10ms	2A:80Apk/3A:160Apk
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: 1/2cycle+1ms, /随机型 Random-on: 1ms
最大关断时间 Max. Turn-off Time	1/2cycle+1ms

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)	4000Vrms
绝缘电阻(@500VDC) Min. Insulation Resistance @500VDC	1000MΩ
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)	20g

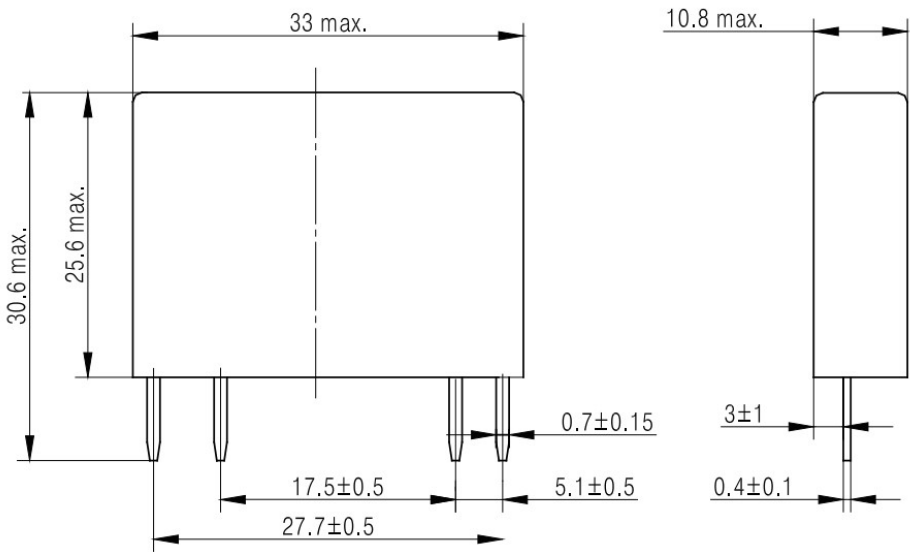
型号命名标准 Model Number Legend

	STSFA	240	D	2	R	-24	N	,XXX
基本型号 Basic Type:	STSFA							
负载电压 Load Voltage:		240: 240VAC; 380:380VAC						
驱动方式 Drive Type:			D: DC Drive					
负载电流 Load Current:				2: 2A; 3: 3A				
触发形式 Trigger Type:					无 Blank: 过零导通 Zero-cross; R: 随机导通 Random;			
驱动电压 Drive Voltage:						5: 5VDC; 12: 12VDC; 24: 24VDC		
RC电路 RC Circuit :							无 Blank: 带RC; N: 不带RC Without RC	
特殊特性 Special Characteristic:								Blank: 标准型 Standard; XXX: 客户特殊特性号 Customer Special Feature Number

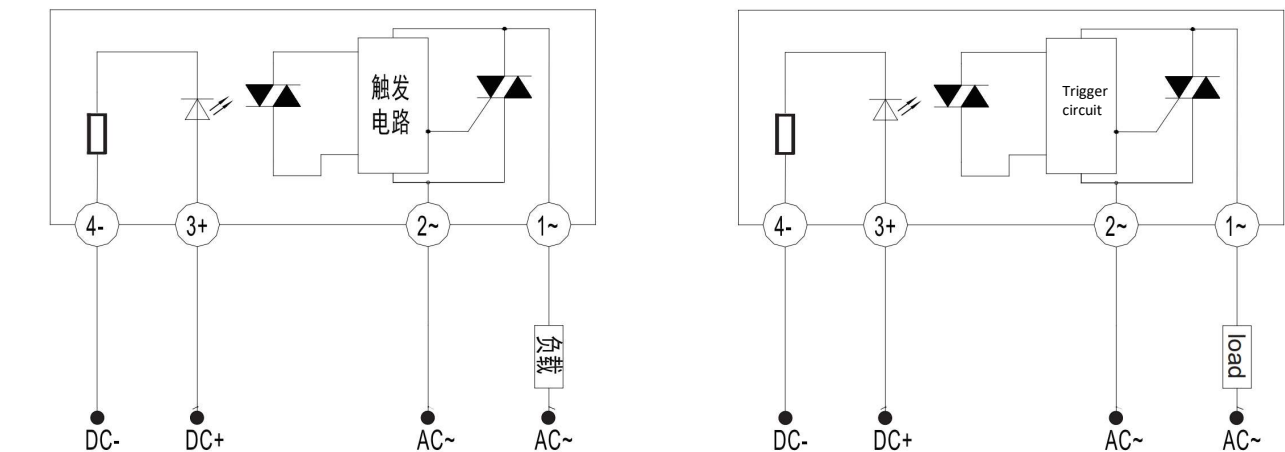
具体型号列表 List of Models

驱动电压/ Drive Voltage	2A		3A	
5VDC	STSFA240D2-5	STSFA240D2R-5	STSFA240D3-5	STSFA240D3R-5
	STSFA380D2-5	STSFA380D2R-5	STSFA380D3-5	STSFA380D3R-5
12VDC	STSFA240D2-12	STSFA240D2R-12	STSFA240D3-12	STSFA240D3R-12
	STSFA380D2-12	STSFA380D2R-12	STSFA380D3-12	STSFA380D3R-12
24VDC	STSFA240D2-24	STSFA240D2R-24	STSFA240D3-24	STSFA240D3R-24
	STSFA380D2-24	STSFA380D2R-24	STSFA380D3-24	STSFA380D3R-24

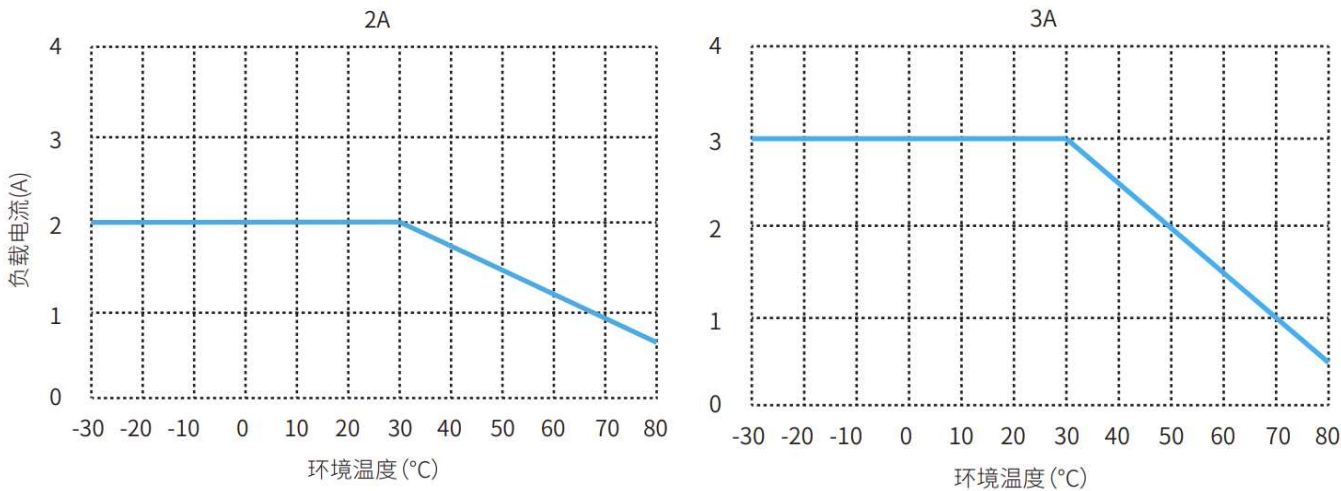
外形尺寸 Outline Dimensions



■ 接线图 Wiring Diagram



■ 温度曲线 Thermal Derating Curve



■ 使用注意事项 Precautions for Use

- 1. 260°C气焊温度下，整个过程不能超过10秒，350 °C时，焊接过程不能超过5秒，否则可能导致产品损坏。 Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay.
- 2. 控制端极性要保证正确，否则会损坏产品。 The polarity of control terminal must be observed. Otherwise it may cause damage to the relay.
- 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.

■ 认证标准 Approval standards

认证类型/certification type	测试标准/Test criteria
UL	UL508
CE	C22.2 No. 14-13