

特性 Features

- 低功耗 Low power:200mW
- 低高度 Low-altitude
- 20A最大负载能力 Max. 20A load capacity
- 外形尺寸 Outline dimensions : (23 x 16.1 x 10.2) mm



典型应用 Application

- 电熨斗, 电饭煲, 咖啡壶, 智能插座等。 Electric iron, rice cooker, coffee maker, smart socket, etc.

触点参数 Contact Data

触点形式 Contact Arrangement	1A
触点负载 Contact Rating	20A/18A/15A/10A 250VAC 10A 30VDC TV-8
最大切换电压 Max. Switching Voltage	277VAC/30VDC
最大切换电流 Max. Switching Current	20A
最小切换电流/电压 Min. Switching Current/Voltage	100mA 5VDC
电机负载 Motor Load	1/2 HP 240VAC
触点材质 Contact Material	银合金 Ag alloy
接触电阻 Contact Resistance	Max.100mΩ (1A 6VDC)
动作/释放时间 Operate Time/ Release Time	≤20ms/≤10ms
电耐久性 Electrical Endurance	15A 250VAC, on : off = 1s : 9s , 阻性负载 R-Load @ 23°C 1*10 ⁶ ops
机械耐久性 Mechanical Endurance	1*10 ⁶ ops.
最大切换功率 Max. Switching Power	3750VA

线圈参数 Coil Data

线圈电压范围 Coil Voltage Range	5~24 VDC
容许最大电压 Max. Continuous	额定电压的130% 130% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Blank: Class A, F: Class F
额定线圈功率 Coil Rating Power	0.2W

性能参数 Characteristics

绝缘电阻 Insulation Resistance		1000MΩ (at 500VDC)
介质耐压 Dielectric Strength	断开触点间 Open Load Contacts	1000Vrms 1min
	线圈与触点间 Coil to Load Contacts	2000Vrms 1min
温度范围 Temperature Range		-40~+105°C
湿度 Ambient Operating Humidity		5% ~ 85%RH
振动 Vibration Resistance		10~55~10Hz 双振幅1.5mm Double Amplitude 1.5mm
冲击 Shock	稳定性 Functional	10G
	强度 Destructive	100G
重量 Weight		Approx.8g

线圈规格 Coil Voltage Specifications

额定电压 Nominal Coil	动作电压 Must Operate	释放电压 Release Coil	线圈电阻 Coil Resistance
VDC	VDC	VDC	Ω(±10%)
5	3.75	0.25	125
9	6.75	0.45	405
12	9	0.6	720
24	18	1.2	2880

注:

- 以上值为初始值 All the performance data are initial values.
- 线圈电阻是在线圈温度23°C, 公差为±10% Coil resistance is tested at 23°C ambient temperature, ±10% tolerance.

注:

- 所有数值均为在环境温度+23°C下未预通电的线圈 All the performance data are for coils that are not pre energized at 23°C ambient temperature.

ST5C 小型中功率继电器 Miniature Medium Power Relay

型号命名标准 Model Number Legend

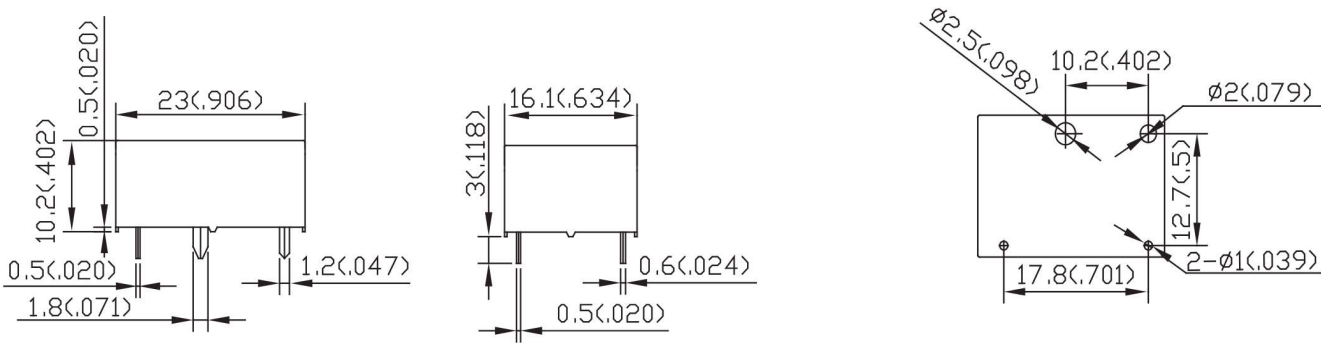
	ST5C	-1A	-12	S	F	,XXX
基本型号 Basic Type:	ST5C					
触点结构 Contact Arrangement:		1A: 1组常开 1 Form A				
线圈电压 Coil Voltage:		5, 9, 12, 24, 48VDC				
防护构造 Protective Construction:		Blank: 耐助焊剂型 Flux Tight; S: 塑料密封型 Sealed				
绝缘等级 Insulation Class:		Blank: A级线圈 A Class; F: F级 F Class				
特殊特性 Special Characteristic:		Blank: 标准型 Standard; E01: 高容量版本 High Capacity Type*; XXX: 客户特殊特性号 Customer Special Feature Number				

*有关特殊产品详情，请与我司联系。 For special product's detail, please contact STEIPU.

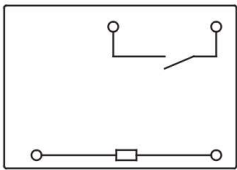
外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

外形尺寸 Outline Dimensions

印刷线路板加工尺寸 PCB Outline Dimension (Bottom View)



接线图 Wiring Diagram Bottom View



注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: +0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.4mm ;
安装孔尺寸中未注尺寸公差为±0.1 mm PC board layout dimensions hadn't specified tolerance is ±0.1mm.

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