

ST98 汽车继电器 Automotive Relay

特性 Features

- 80A触点切换能力 80A contact switching capability
- 1组常开 & 1组转换触点安排 1 Form A & 1 Form C contact arrangement
- 可提供塑料支架和金属支架 Plastic Bracket & Metal Bracket Available
- 环境温度范围:-40°C~ 125°C Ambient temperature range: -40°C to 125°C
- 环保产品(符合RoHS标准) Environmental friendly product (RoHS compliant)
- 可用于PC板安装和直接插入安装 Available for PC board mounting & direct insert mounting
- 尺寸Dimension:26.0 x 26.0 x 23.7 mm



典型应用 Application

- 后窗除雾器/电池断开装置/空调系统/雾灯和前灯控制/燃油泵控制/ ABS控制系统/冷却风扇控制/电源管理等。Rear Windows Defogger / Battery Disconnection Device / Air-Conditioning System / Fog Lamp & Headlight Control / Fuel Pump Control / ABS Control system / Cooling Fan Control / Power Management, etc..

触点参数 Contact Data

触点形式 Contact Arrangement	1A	1C
触点额定 Contact Rating	80A 14VDC	NO:80A 14VDC NC:60A 14VDC
最大切换电压 Max. Switching Voltage	16VDC	
最大切换电流 Max. Switching Current	80A	
触点材质 Contact Material	银合金 Ag alloy	
接触电阻 Contact Resistance	Max.100mΩ (1A 5VDC)	
接触压降 Voltage Drop	典型 Typ.:30mV (@10A) 最大 Max.:250mV(@10A)	
动作/释放时间 Operate Time/ Release Time	≤15ms/≤15ms	
最小切换负载 Min. switching load	1000mA 6V	
电耐久性 Electrical Endurance	1*10 ⁵ ops.	
机械耐久性 Mechanical Endurance	1*10 ⁷ ops.	
最大切换功率 Max. Switching Power	1120W	

线圈参数 Coil Data (标准型 Standard)

线圈电压范围 Coil Voltage Range	12/24 VDC
容许最大电压 Max. Continuous	额定电压的130% 130% of Rated Voltage
额定线圈功率 Coil Rating Power	1.6/1.8W

注:

- a) 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.

性能参数 Characteristics

绝缘电阻 Insulation Resistance	断开触点间 Between Open Contacts	100MΩ Min (at 500VDC)
介质耐压 Dielectric Strength	线圈与触点间 Between Coil and Contact	500Vrms 1min
温度范围 Temperature Range	标准型 Standard Type	-40~+85°C
	耐高温型 Heat Resistant Type	-40~+125°C
湿度 Ambient Operating Humidity		5% ~ 85%RH
振动 Vibration Resistance		10Hz-55Hz, at double amplitude 1.5mm 频率 10Hz-55Hz, 双振幅 1.5mm
冲击 Shock	稳定性 Functional	10G
	强度 Destructive	100G
重量 Weight		Approx.38g

线圈规格 Coil Voltage Specifications (标准型 Standard)

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%)
12	7.80	1.2	90
24	15.6	2.4	320

注:

- a) 以上值为初始值 All the performance data are initial values.
- b) 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.

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型号命名标准 Model Number Legend

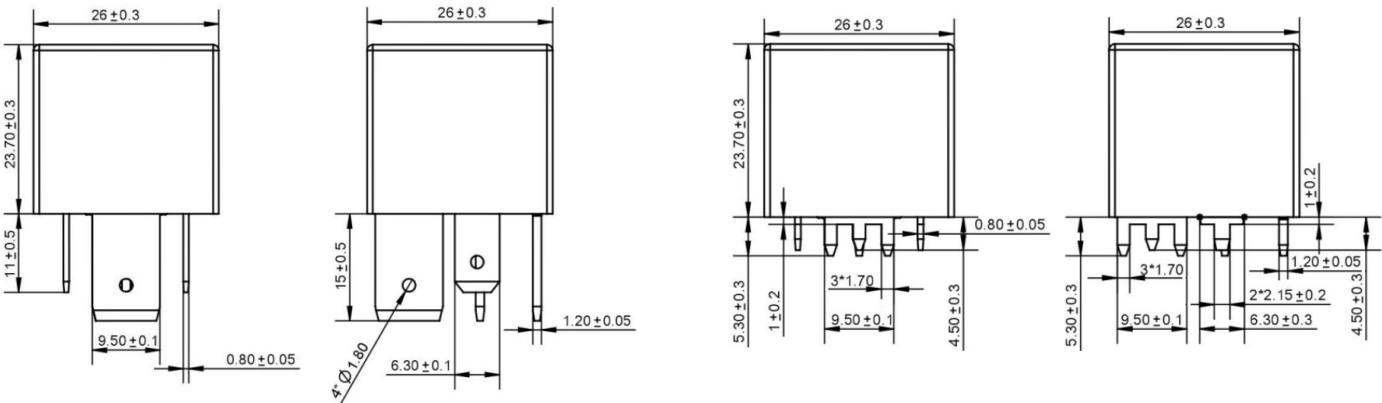
	ST98P	-12	R	T	-C	80	F	-S	,XXX
基本型号 Basic Type:									
ST98: 标准形式 Standard Type									
ST98P: PCB Type									
ST98M: 金属支架 Metal Bracket									
ST98B: 塑料支架 Plastic Bracket									
线圈电压 Coil Voltage:									
12, 24VDC									
线圈并联元件 Coil Paralleled Component:									
Blank: Standard; R: with Resistance;									
D1: with diode (the diode anode on #85 terminal);									
D2: with diode (the diode anode on #86 terminal)									
耐温等级 Temperature Resistance Class:									
Blank: 85°C; T: 125°C									
触点结构 Contact Arrangement:									
A: 1组常开 1 Form A; C: 1组转换 1 Form C									
触点负载 Contact Rating:									
80: 80A									
触点材料 Contact Material:									
Blank: AgSnO ₂ ; 1: AgNi									
防护构造 Protective Construction:									
Blank: 耐助焊剂型 Flux Tight; S: 塑料密封型 Sealed									
特殊特性 Special Characteristic:									
Blank: 标准型 Standard; XXX: 客户特殊特性号 Customer Special Feature Number									

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

外形尺寸 Outline Dimensions

ST98

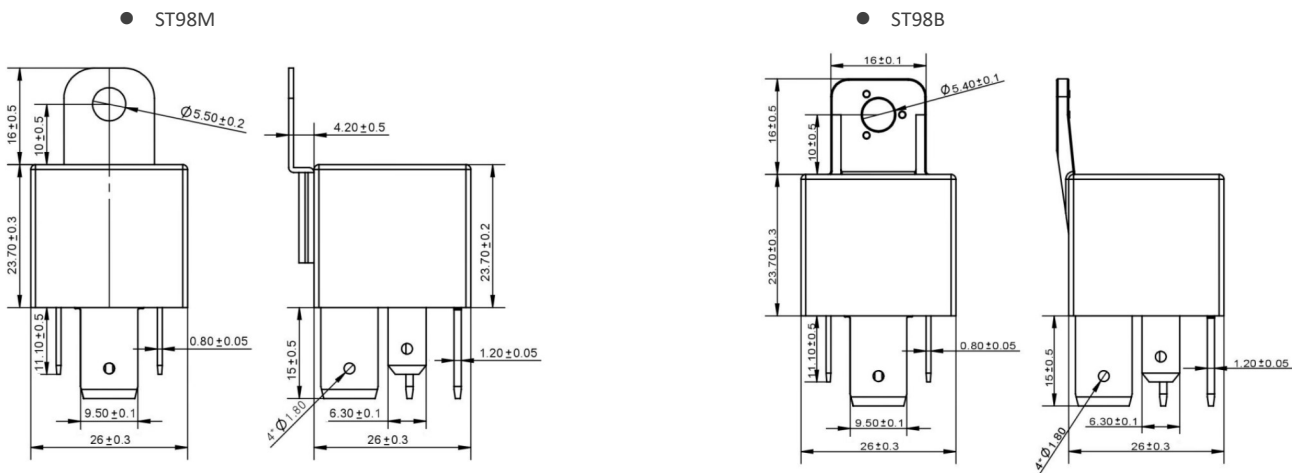
ST98P



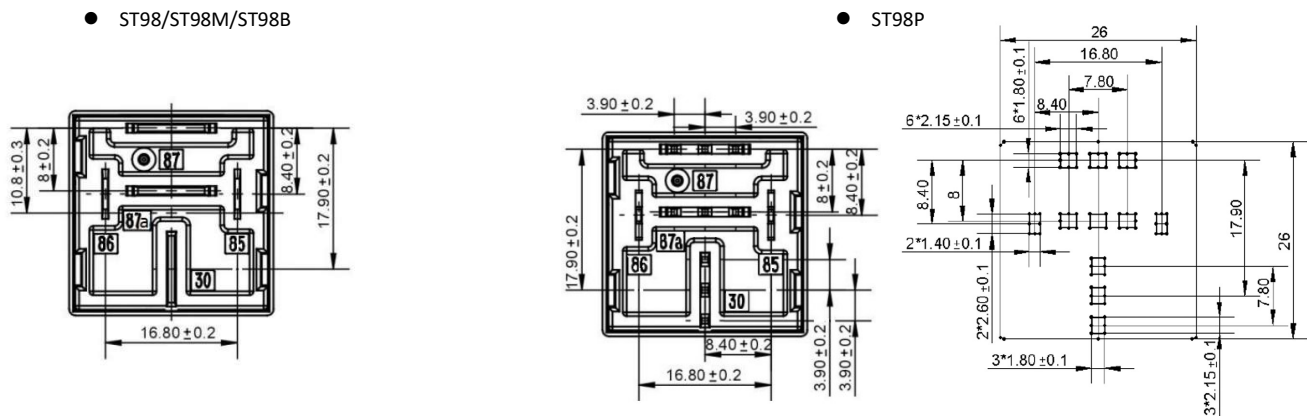
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外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

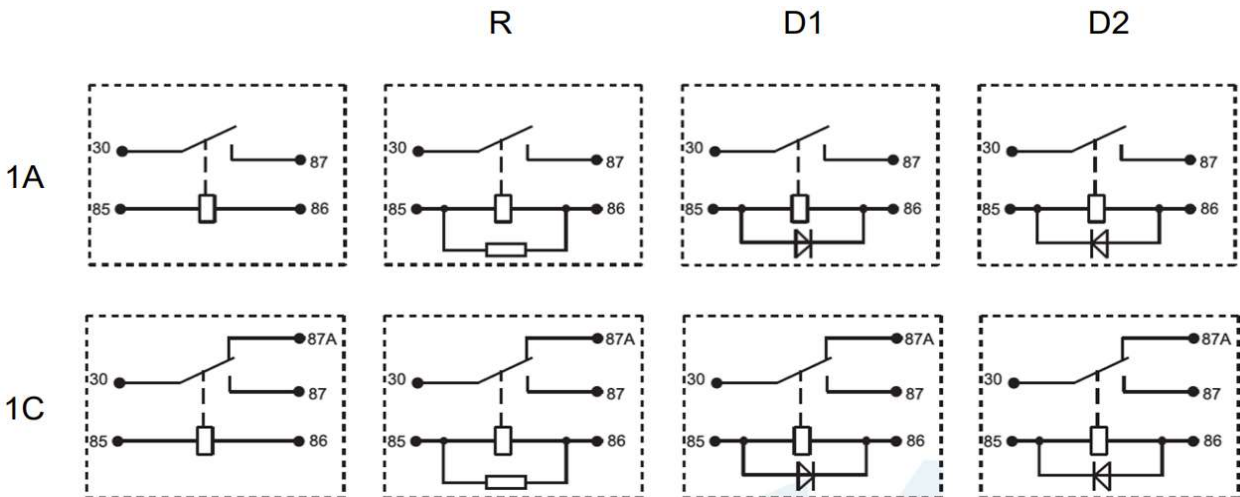
外形尺寸 Outline Dimensions



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. 5mm ;
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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