

特点 FEATURES

- 最大转换容量可达80安培
Max switching capacity up to 80A.
- 1组常开与1组转换的接点形式
1 Form A and 1 Form C contact arrangement.
- 多种工作电压
Multiple working voltage.
- 多种安装方式
Multiple installation.



用途举例 USE EXAMPLES

雾灯与大灯控制、后窗除雾器、汽车空调系统
油泵控制、冷却风扇控制、电池断路装置

接点参数 CONTACT RATING

接点形式 Contact Form	1A (SPST-NO)	1C (SPDT)
额定负载 (阻性) Rating Load(Resistive)	80A 14VDC 50A 28VDC	NO:80A 14VDC, 50A 28VDC NC:30A 14VDC, 20A 28VDC
马达负载 Motor Load	常开: 冲击160A, 稳态50A 14VDC; 1秒通/9.5秒断, 试验环境温度: 23°C NO:Inrush 160A, steady 50A 14VDC; 1s On/9.5s Off at 23°C	
灯泡负载 Lamp Load	常开: 冲击210A, 稳态50A 14VDC; 1秒通/1秒断, 试验环境温度: 23°C NO:Inrush 210A, steady 50A 14VDC; 1s On/1s Off at 23°C	

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	1×10 ⁵	
机械寿命 Mechanical Life	1×10 ⁷ (300 cycles/min)	
绝缘阻抗 Insulation Resistance	Min. 100MΩ (at 500VDC)	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤10ms	
开放时间 Release Time	≤10ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts : 50/60Hz 550VAC 1min. 接点线圈间 between contacts and coil : 50/60Hz 550VAC 1min.	
耐振动 Vibration Resistance	误动作: Functional:	10~55Hz 双振幅 Double Amplitude 2.5mm
	耐久: Destructive:	10~55Hz 双振幅 Double Amplitude 2.5mm
耐冲击 Shock Resistance	误动作: Functional:	20G(196m/s ²)
	耐久: Destructive:	200G
环境温度 Ambient Temperature	-40°C~+125°C (无结冰 No freezing)	
单位重量 Unit Weight	(标准防尘型) Standard cover style 约 Approx.37.8g (带金属安装架型) Metal mounting bracket dust cover style 约 Approx.40.2g	

型号代码说明 ORDERING INFORMATION

172 - 1A - 12 D M S P - R

1. **型号** Model Number
2. **接点形式** Contact Arrangement
1组常开 1A = 1 Form A 1组转换 1C = 1 Form C
3. **线圈电压** Coil Voltage
6、12、24VDC
4. **线圈形式** Coil Type
直流 D=DC
5. **防尘外盖形式** Dust Cover Type
标准防尘外盖型 Nil=Standard Dust Cover
带金属安装架防尘外盖型 M=Metal Mounting Bracket Dust Cover
6. **密封形式** Enclosure
普通型 Nil=General Type 密封型 S=Sealed Type 防水型 W=Weatherproof Type
7. **端子形式** Terminal Type
标准型 Nil=Standard Type 电路板型 P=P.C.B. Type
8. **附加选项** Optional
普通型 Nil=General Type
带电阻线圈(标准型) R=Coil with Resistor (Standard Type) (1/2W for 12V 680Ω, 24V 2700Ω)
带二极管线圈(阳极接85#脚) D=Coil with Diode 带反向二极管线圈(阳极接86#脚) D1=Coil with Reverse Diode

线圈额定值 (在20°C) COIL RATINGS (AT 20°C)

线圈额定电压 (V) Coil Nominal Voltage	线圈阻抗 (Ω±10%) Coil Resistance	额定电流 (mA) Nominal Current	额定功耗 (W) Power Consumption at Rated Voltage	动作电压(V) (Max) Pick-Up Voltage	开放电压(V) (Min) Drop-Out Voltage
6	22	272	1.6	3.9	0.6
12	85	141	1.7	7.8	1.2
24	350	68.6	1.6	15.6	2.4

* 最大使用电压在85°C:线圈额定电压的130%
Max Continuous Voltage at 85°C:130% of Coil Normal Voltage

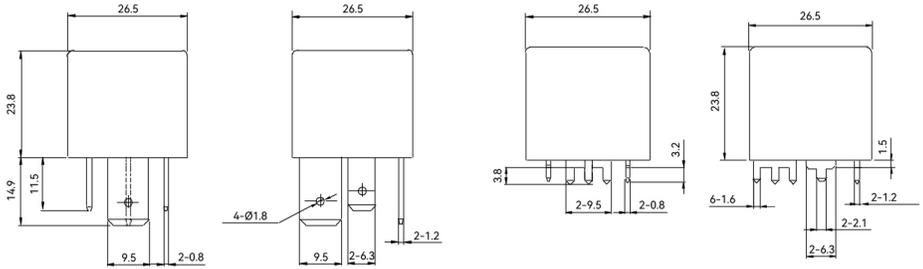
外部尺寸 OUTLINE DIMENSIONS

普通型外盖 Standard Dust cover

单位: 毫米 UNIT: mm

插入型 Plug in Type

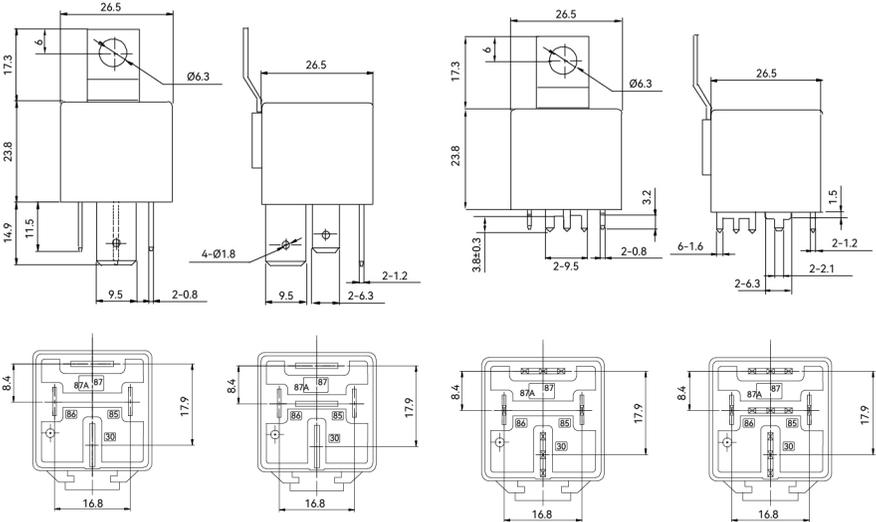
电路板端子型 P.C.B. Type



带金属安装架外盖型 Metal Mounting Bracket Dust Cover

插入型 Plug in Type

电路板端子型 P.C.B. Type

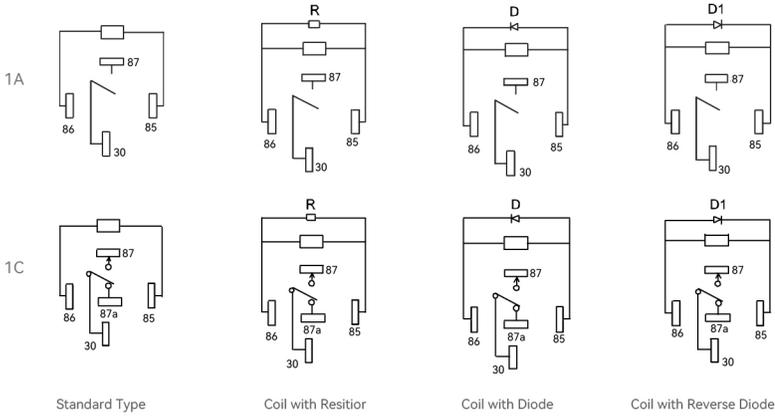


(底视图 Bottom View)

Plug in Type

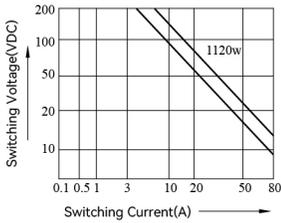
P.C.B. Type

接线图 Internal Connections

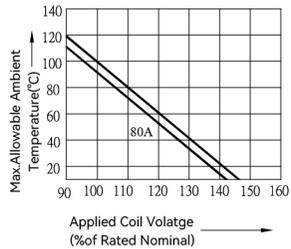


参考资料 172 REFERENCE DATA

Limiting Curve For Power Load



Ambient Temperature VS Coil Voltage for continuous duty



- Assumptions: 1. Thermal resistance=45° per watt
 2. Nominal coil resistance
 3. Curves are based on 1.6watts at 20°C