

特点 FEATURES

- 最大转行容量可达40安培
Max switching capacity up to 40A.
- 电路板端子或快接端子可选择使用
PCB terminal or QC terminal available.
- 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)	40A 14VDC 30A 28VDC	NO:40A 14VDC , 30A 28VDC NC:30A 14VDC , 20A 28VDC
马达负载 Motor Load	常开: 冲击80A, 稳态30A 14VDC; 1秒通/9.5秒断, 试验环境温度: 23°C NO:Inrush 80A, steady 30A 14VDC; 1s On/9.5s Off at 23°C	
灯泡负载 Lamp Load	常开: 冲击150A,稳态30A 14VDC;1秒通/1秒断,试验环境温度: 23°C NO:Inrush 150A,steady 30A 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~+85°C (无结冰 No freezing)	
单位重量 Unit Weight	(标准防尘型) Standard cover style 约 Approx.28.8g (带金属安装架型) Metal mounting bracket dust cover style 约 Approx.31.2g	

型号代码说明 ORDERING INFORMATION

171 - 1C - 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

1组双常开 1U = 1 Form U

3. 线圈电压 Coil Voltage

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 (IA) 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℃) COIL RATINGS (AT 20℃)

普通型:

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
12	85	141	1.7	7.8	1.2
24	350	69	1.6	15.6	2.4

带电阻型:

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
12	75.6	159	1.9	7.8	1.2
24	309.8	77	1.9	15.6	2.4

* 最大使用电压在85℃:线圈额定电压的130%

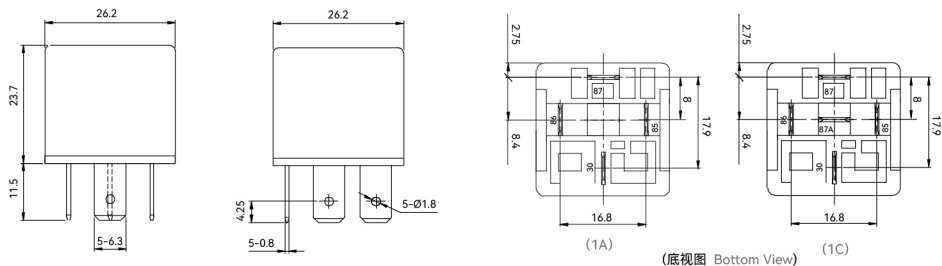
Max Continuous Voltage at 85℃:130% of Coil Normal Voltage

外部尺寸 OUTLINE DIMENSIONS

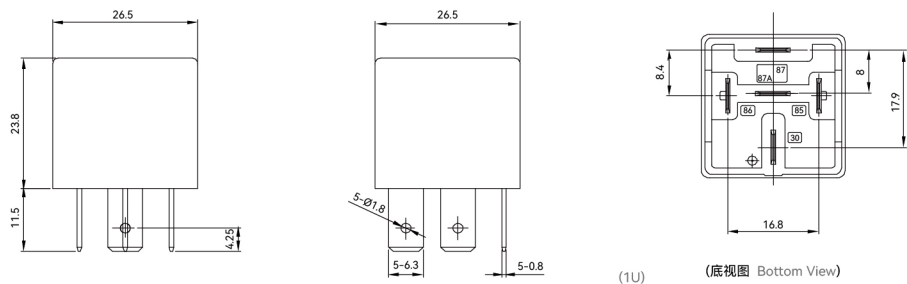
普通型外盖 Standard Dust cover

单位: 毫米 UNIT: mm

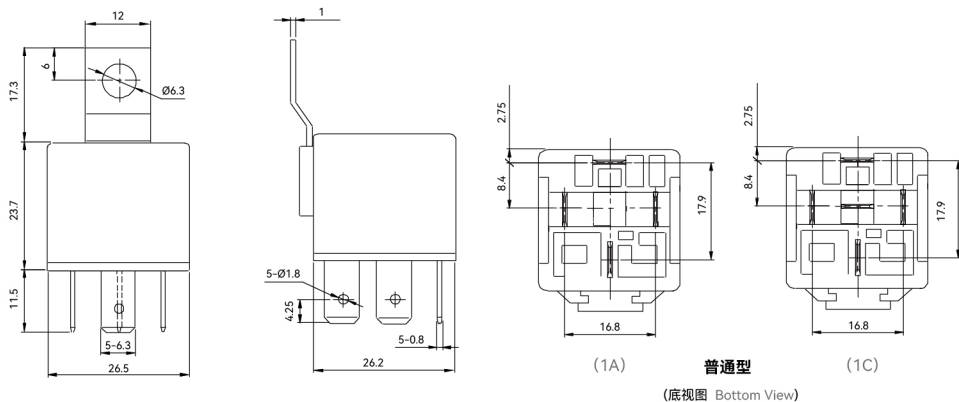
尺寸 Dimensions



普通外盖-防水型 Standard Dust cover -Weather Proof Type



帶金屬安裝架外蓋普通型 Metal Mounting Bracket Dust Cover



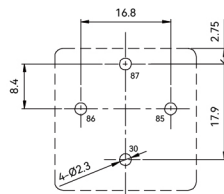
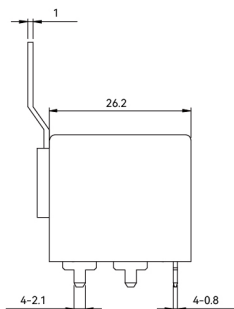
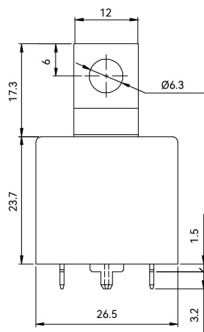
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

外部尺寸 OUTLINE DIMENSIONS

带金属安装架外盖-电路板型 Metal Mounting Bracket Dust Cover-P.C.B Type

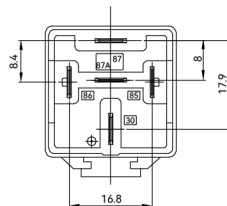
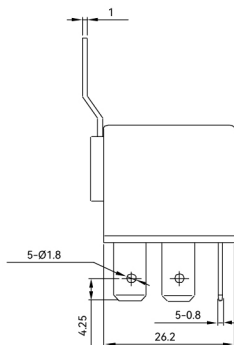
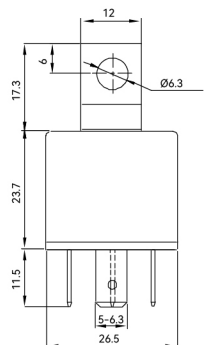
尺寸 Dimensions



电路板型(1A)

(底视图 Bottom View)

带金属安装架外盖型-防水型 Metal Mounting Bracket Dust Cover-Weather Proof Type

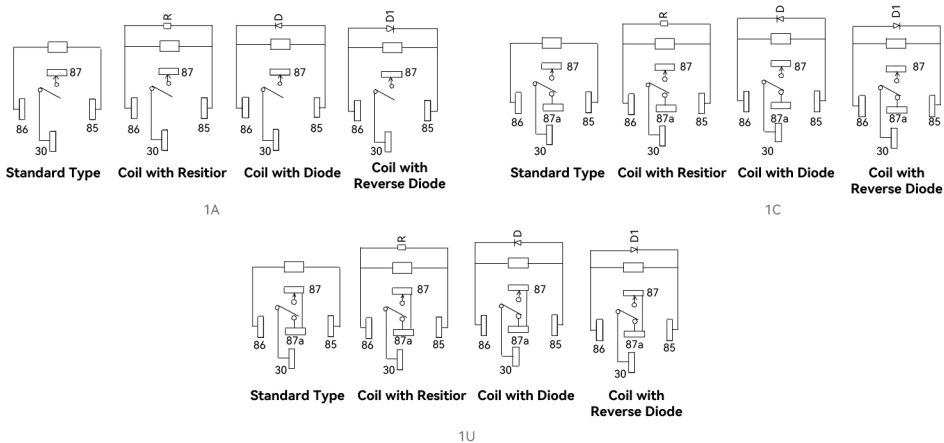


(底视图 Bottom View)

备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

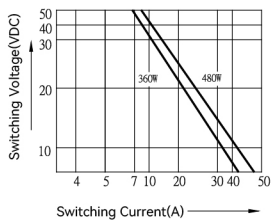
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

接线图 Internal Connections

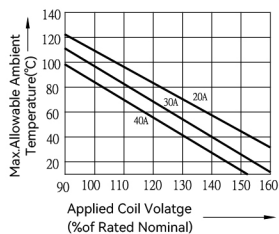


参考资料 171 REFERENCE DATA

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 1.6 watts at 20°C