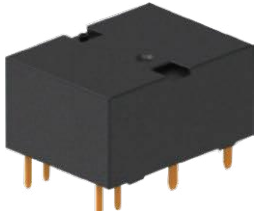


ML601

工控应用

Industrial Control Applications

- 高触点切换能力
- 线圈与触点间耐压为 2.5KV
- 具有单稳态和双稳态形式
- High contact switching capability
- Withstand voltage between coil and contact is 2.5KV
- Available in monostable and bistable form
- Contact form: 1A, 1B, 2A, 2B, 1AB
- Environmental friendly products (RoHS compliant)
- 触点形式：1A, 1B, 2A, 2B, 1AB
- 环保产品（符合 RoHS）



ML601

-

S

-

2

-

12

-

1A

-

L1

-

R

-

XXX

产品型号 Model	封装形式 Construction	触点组数 Number of poles	线圈电压 Coil voltage	触点形式 Contact Form	线圈类型 Coil Type	极性特点 Polarity	特殊型号 Special Model
	S: 塑封型 无: 防焊剂型 S: Wash tight Nil:Flux Proof	1:1 组 1 Pole 2:2 组 2-Pole	6: 6VDC 9: 9VDC 12: 12VDC 24: 24VDC	1A: 一组常开 Group NO 1B: 一组常闭 Group NC 2A: 二组常开 Group NO 2B: 二组常闭 Group NC 1AB: 一组常开一组常闭 GroupNO GroupNC	无: 单稳态 Nil: Monostable L1: 单线圈 Single Coil L2: 双线圈 Dual Coils	无: 标准极性 R: 反向极性 Nil: Standard polarity R: Reversed Polarity	XXX: 特殊要求 XXX: Customer Special Requirement

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	1a、1b(仅限双稳态型 Bistable type only)	2a、2b、1ab
触点材料 Contact Material	银合金 Silver Alloy	
接触电阻 Contact Resistance	≤ 50mΩ (1A 6VDC)	
触点负载 (阻性) Contact Rating(Res.Load)	10A 250VAC	8A 250VAC
最大切换电流 (阻性) Max.Switching Current(Res.Load)	10A	8A
最大切换电压 (阻性) Max.Switching Voltage(Res.Load)	250VAC	
最大切换功率 Max.Switching Power	2500KV	2000KV
电气寿命 Electrical Life	1×10 ⁵ 次 OPS	
机械寿命 Mechanical Life	1×10 ⁶ 次 OPS	

性能参数 CHARACTERISTICS

绝缘电阻 Insulation Resistance	1000MΩ Min. (500VDC)	
介质耐压 Dielectric Strength	触点与线圈间 Between Coil & Contacts: 4000VAC 1min 断开触点间 Between Open Contacts: 1000VAC 1min	
动作时间 Set Time	≤ 10ms	
复位时间 Reset Time	≤ 10ms	
冲击 Shock	功能性的 Functional	98m/s ²
	破坏性的 Destructive	980m/s ²
振动 Vibration	10Hz-55Hz 1.5mm 双振幅 (DA)	
湿度 Humidity	5%-85%RH	
温度范围 Ambient Temperature	-40°C ~ +85°C	
引出端形式 Termination	印制板式 PCB	
封装方式 Construction	塑封型 Wash tight 防焊剂型 Flux Proof	
重量 Unit Weight	约 Approx.6g	

ML601

线圈规格表 COIL DATA(23°C)

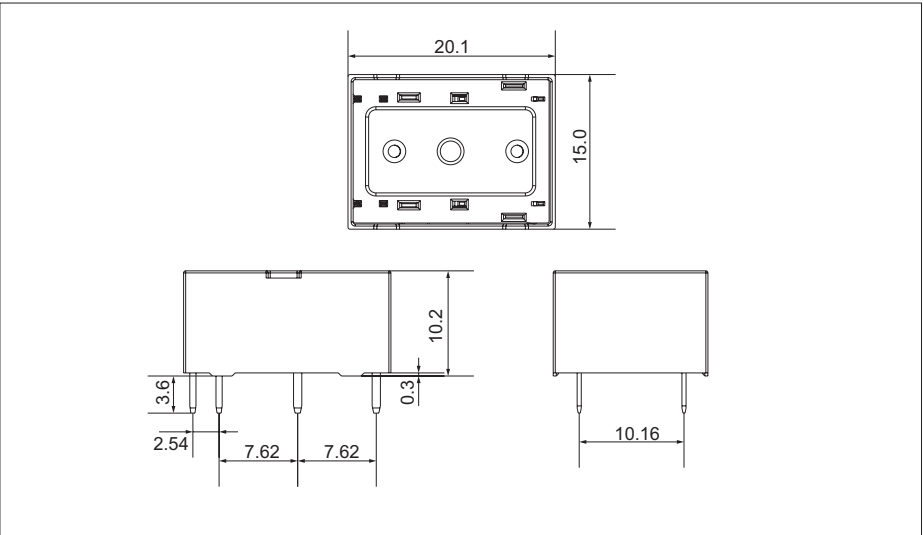
额定电压 Rated Voltage VDC	动作 / 复归电压 Operate/Reset Voltage VDC	脉冲宽度 Pulse Duration ms	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power W
3	≤ 2.4	≥ 50	单线圈双稳态 Single coil latching bistable	45
5	≤ 4			125
6	≤ 4.8			180
9	≤ 7.2			405
12	≤ 9.6			720
24	≤ 19.2			2880
3	≤ 2.4	≥ 50	双线圈双稳态 Dual Coils latching bistable	32.1/32.1
5	≤ 4			89.3/89.3
6	≤ 4.8			129/129
9	≤ 7.2			289/289
12	≤ 9.6			514/514
24	≤ 19.2			2056/2056

额定电压 Rated Voltage VDC	动作电压 Set Voltage VDC	释放电压 Reset Voltage VDC	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power W
3	≤ 2.4	≥ 0.3	单稳态 Monostable	32.1
5	≤ 4	≥ 0.5		89.33
6	≤ 4.8	≥ 0.6		129
9	≤ 7.2	≥ 0.9		289
12	≤ 9.6	≥ 1.2		514
24	≤ 19.2	≥ 2.4		2056

单位 Unit: mm

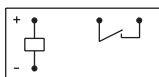
工控应用
Industrial Control Applications

外形尺寸 PROFILE DIMENSION

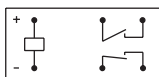


接线图 WIRING DIAGRAM

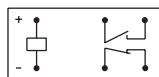
单稳态 Monostable



一组常开 1 pole NO

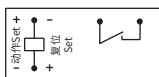


两组常开 2-pole NO

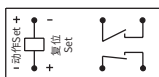


一组常开一组常闭 1 pole NO/NC

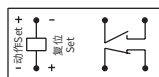
单线圈双稳态 (标准极性) Single coil latching bistable(Default polarity)



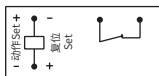
一组常开 1 pole NO



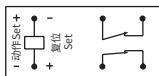
两组常开 2-pole NO



一组常开一组常闭 1 pole NO/NC

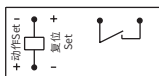


一组常闭 1 pole NC

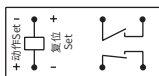


两组常闭 2-pole NC

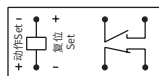
单线圈双稳态 (反向极性) Single coil latching bistable(Reversed Polarity)



一组常开 1 pole NO

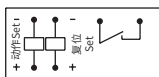


两组常开 2-pole NO

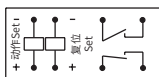


一组常开一组常闭 1 pole NO/NC

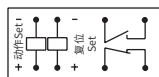
双线圈双稳态 (标准极性) Dual Coils latching bistable(Default Polarity)



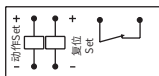
一组常开 1 pole NO



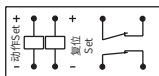
两组常开 2-pole NO



一组常开一组常闭 1 pole NO/NC

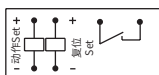


一组常闭 1 pole NC

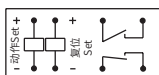


两组常闭 2-pole NC

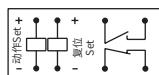
双线圈双稳态 (反向极性) Dual Coils latching bistable(Reversed Polarity)



一组常开 1 pole NO



两组常开 2-pole NO

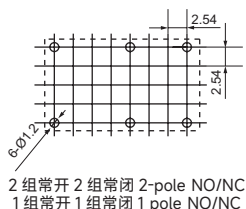
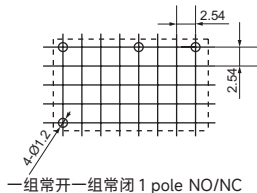


一组常开一组常闭 1 pole NO/NC

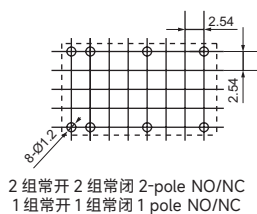
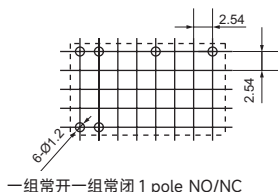
安装孔尺寸 PCB LAYOUT

单位 Unit: mm

单稳态、单线圈双稳态安装孔尺寸 Monostable, single coil latching bistable PCB layout



双线圈双稳态安装孔尺寸 Dual coils latching bistable PCB layout



备注 Notes:

- 1) 产品部分外形尺寸未注尺寸公差，当外形尺寸 $\leq 1\text{mm}$ ，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 之间时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。

In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$;

- 2) 安装孔尺寸中未注尺寸公差的均为 $\pm 0.1\text{mm}$ 。

The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

声明 STATEMENT:

1. 本产品规格书仅供客户使用时参考，若有更改，恕不另行通知。

This product specification for client's reference, if any change without notice.

2. 对美硕而言，不可能评定继电器在每个具体应用领域的所有性能参数要求，因而客户应该根据具体的使用条件选择与之相匹配的产品，若有疑问，请与美硕联系获取更多的技术支持。但产品选型责任仅由客户负责。

MEISHUO cannot evaluate all performance parameters for each specific application. Customers should select products based on matching conditions. For technical support, please contact us. Product selection responsibility lies solely with the customer.