

ML602

新能源应用

New Energy Applications

- 外形尺寸 L39 × W21.6 × H32mm
- 良好抗震性能和抗冲击性能
- 双稳态磁保持继电器
- 适用于新能源汽车充电桩领域
- 90A 与 125A 两种负载电流可选
- Profile Dimension L39 × W21.6 × H32mm.
- Bistable magnetic holding relay.
- 90A and 125A load currents are optional.
- Good vibration resistance and shock resistance.
- Applicable to new energy vehicle charging piles.



ML602

H

S

1

12

Bb

L1

产品型号 Model	负载规格 Load Type	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
	无 nil: 低负载 Low Load 90A H: 高负载 High Load 125A	S: 塑封型 Wash tight Type	1: 1组 1 Pole	09: 9VDC; 12: 12VDC; 24: 24VDC; 48: 48VDC	A: 常开 NO; B: 常闭 NC Aa: 双常开 NO+NO; Bb: 双常闭 NC+NC	L1: 单线圈 Single Coil Latching

备注 Notes:

双常开 / 双常闭产品为一组主触点带一组辅助触点

A double normally-open/double normally-closed product consists of one set of main contacts and one set of auxiliary contacts.

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	A、B、Aa、Bb (详见订货标记 See ordering information for details)	
触点材料 Contact Material	银合金 Silver Alloy	
接触电阻 Contact Resistance	≤ 1mΩ (1A 6VDC)	
最大切换电流 Max. Switching Current	低负载 Low Load	90A
	高负载 High Load	125A
最大切换电压 Max. Switching Voltage	低负载 Low Load	277VAC, 24VDC
	高负载 High Load	277VAC
最大切换功率 Max. Switching Power	低负载 Low Load	24930VA, 2160W
	高负载 High Load	34625VA
电气寿命 Electrical Life	低负载 Low Load	≥ 6×10 ⁵ 次 Ops (90A 277VAC, 阻性负载 Res. Load, 23±5°C, 1s On: 9s Off)
		≥ 1×10 ⁵ 次 Ops (90A 24VDC, 阻性负载 Res. Load, 23±5°C, 1s On: 9s Off)
	高负载 High Load	≥ 1×10 ⁵ 次 Ops (125A 277VAC, 阻性负载 Res. Load, 23±5°C, 1s On: 9s Off)
机械寿命 Mechanical Life	≥ 1×10 ⁵ 次 Ops	

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性能参数 CHARACTERISTICS

绝缘电阻 Insulation Resistance	1000M Ω (500VDC)
介质耐压 Dielectric Strength	断开主触点间 Disconnect between main contacts: 2000VAC(1mA) (50/60Hz) 1分钟 Min 主触点和线圈间 Disconnect between main contacts: 4000VAC(1mA) (50/60Hz) 1分钟 Min
	辅助触点与主触点间 Between the main contact and the coil: 4000VAC(1mA) (50/60Hz) 1分钟 Min 辅助触点和线圈间 Between the auxiliary contact and the coil: 2000VAC(1mA) (50/60Hz) 1分钟 Min
动作时间 Set Time	≤ 20 ms
复归时间 Reset Time	≤ 20 ms
环境温度 Ambient Temperature	-40°C ~+85°C
振动 Vibration	10Hz~55Hz 1.5mm 双振幅 (DA)
冲击 Shock	稳定性 Functional: 98m/S ² (10G)
	强度 Destructive: 980m/S ² (100G)
引出端方式 Termination	印制板式 PCB
封装方式 Construction	塑封型 Wash tight Type
重量 Unit Weight	约 Approx. 54g

线圈规格表 COIL DATA(23°C)

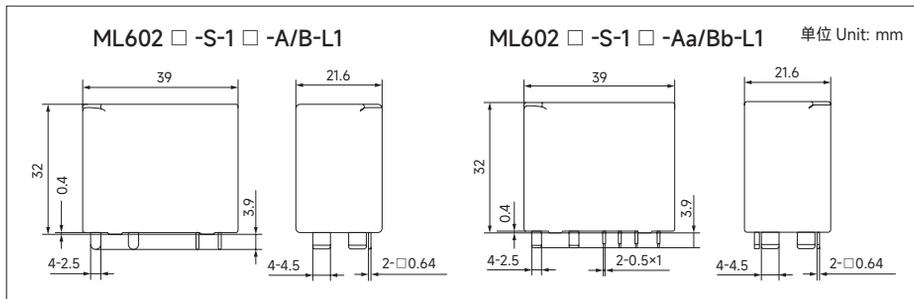
额定电压 Rated Voltage VDC	动作 / 复归电压 Operate/Reset Voltage VDC	脉冲宽度 Pulse Duration ms	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power W
9	≤ 6.3	50-100	54	约 Approx. 1.5 (低负载 Low Load)
12	≤ 8.4		96	
24	≤ 16.8		384	
48	≤ 33.6		1536	
9	≤ 6.3		40.5	约 Approx. 2.0 (高负载 High Load)
12	≤ 8.4		72	
24	≤ 16.8		288	
48	≤ 33.6		1152	

安全认证 SAFETY STANDARD APPROVALS

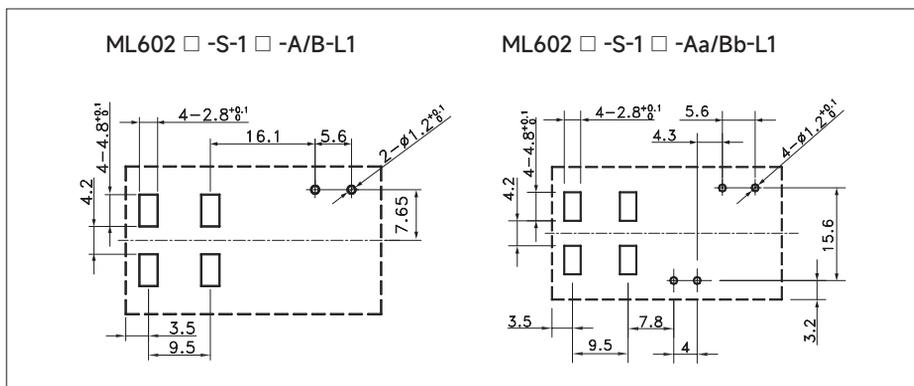
安全认证 Safety Standard Approvals	UL	TUV	CQC
证书编号 Certificate No.	/	/	CQC23002411953

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外形尺寸、接线图、安装尺寸 PROFILE DIMENSION, WIRING DIAGRAM AND PCB LAYOUT



安装孔尺寸 PCB LAYOUT (底视 BOTTOM VIEW)



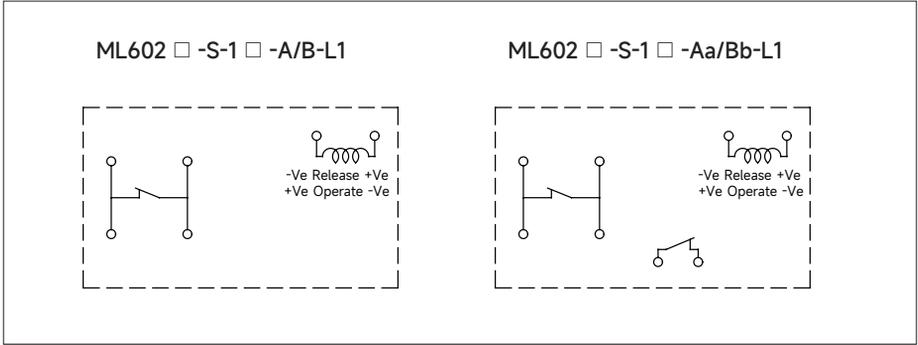
备注 Notes:

- 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 $1\text{-}5\text{mm}$ 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 $\pm 0.4\text{mm}$;

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接线图 WIRING DIAGRAM (底视 BOTTOM VIEW)



2) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。
The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

声明 STATEMENT:

1. 磁保持继电器出厂状态为动作或复归状态，但因运输或继电器安装时受到冲击等因素的影响，可能会改变状态，因而使用时（电源接入时）请根据需要重新将其设置为复归状态或动作状态；

Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "reset" or "set" status, therefore, when application (connecting the power supply), please reset the relay to "reset" or "set" status on request.

2. 为了确保磁保持继电器动作或复归，施加到线圈上的激励电压须达到额定电压，脉冲宽度须大于动作或复归时间的 5 倍；不要同时向动作线圈和复归线圈施加电压；不要长时间（大于 1 分钟）向线圈施加电压；

In order to maintain "reset" or "set" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "reset" or "set" time. Do not energize voltage to "reset" coil and "set" coil simultaneously. And also long energized time (more than 1min) should be avoided.

3. 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.

4. 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.

本目录虽经多次校对以求正确，但仅供参考之用，一切以产品实物为准。
Although this catalogue has been proofread for many times, it is only for reference.
All items are subject to the actual products.



继电器综合样本

RELAYS COMPONENTS



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