

ME101

新能源应用

New Energy Applications

- 外形尺寸 L38×W33×H39.5mm
- 90A 320VAC 负载切换能力
- 触点间隙≥ 3.0mm
- 适用于光伏逆变器、UPS 电源、固定型 EV 电器、APF 等领域
- Dimension L38×W33× H39.5mm
- 90A 320VAC load switching capability
- Contact gap ≥ 3.0mm
- Suitable for photovoltaic inverters, UPS power supplies, fixed EV chargers, APF and other fields



ME101	-	1	-	A	-	1	-	F
产品型号 Model	触点组数 Number of Poles		触点形式 Contact Form		触点材质 Contact Material		绝缘等级 Insulation Class	
	1: 1组 1 Pole		A: 常开 NO		1: AgSnO ₂		F: F级 Class	

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	1a
触点材料 Contact Material	银合金 Silver Alloy
接触电阻 Contact Resistance	≤ 100mΩ (1A 6VDC) (初始 Initial)
最大切换电流 Max. Switching Current	90A
最大切换电压 Max. Switching Voltage	400VAC
最大切换功率 Max. Switching Power	28800VA
电气寿命 Electrical Life	≥ 3×10 ³ 次 Ops (阻性负载 Res. Load, 85°C, 1s On: 9s Off) ≥ 3×10 ⁴ 次 Ops (接通 Making 30A, 载流 Loading 100A, 断开 Breaking 30A, 400VAC, 阻性 Res. load, 85°C, 1s On: 9s Off)
机械寿命 Mechanical Life	≥ 1×10 ⁶ 次 Ops

性能参数 CHARACTERISTICS

绝缘电阻 Insulation Resistance	1000MΩ (500VDC)
介质耐压 Dielectric Strength	触点与线圈间 Between Coil & Contacts: 5000VAC 1min
	断开触点间 Between Open Contacts: 2000VAC 1min
浪涌电压 Surge Voltage	10kV (1.2/50us)
动作时间 Operate Time	≤ 30ms
释放时间 Release Time	≤ 10ms
环境温度 Ambient Temperature	-40°C ~+85°C
振动 Vibration Resistance	10Hz~55Hz 1.5mm 双振幅 (DA)
冲击 Shock Resistance	功能性的 Functional: 98m/s ² (10G)
	破坏性的 Destructive: 980m/s ² (100G)
引出端形式 Termination	印制板式 PCB
封装形式 Construction	防焊剂型 Flux Proof
重量 Unit Weight	约 Approx. 90g

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线圈规格表 COIL DATA(23°C)

额定电压 Rated Voltage VDC	动作电压 Operate Voltage VDC	释放电压 Release Voltage VDC	最大容许电压 Max Allowable Voltage VDC	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功率 Coil Power W
6	≤ 4.2	≥ 0.3	6.6	18.8	1.92
9	≤ 6.3	≥ 0.45	9.9	42.2	
12	≤ 8.4	≥ 0.6	13.2	75	
24	≤ 16.8	≥ 1.2	26.4	300	

线圈保持电压 COIL HOLDING VOLTAGE

保持电压 Holding Voltage	40% to 100% U_N (at 23°C) 50% to 60% U_N (at 85°C)
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备注 Notes:

(1) 线圈保持电压为线圈施加额定电压 100ms 以上的线圈电压。The coil holding voltage is the voltage of coil after being applied rated voltage for 100ms

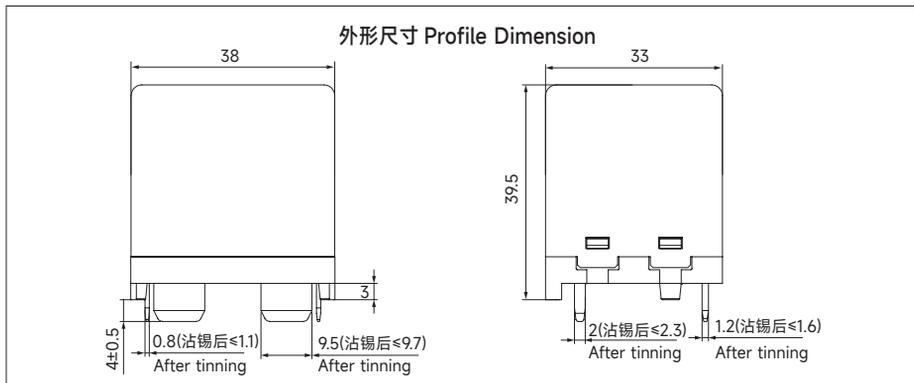
(2) 继电器线圈不允许长时间施加超过保持电压的上限值，防止继电器过热烧毁。The relay coil is not allowed to exceed the upper limit of the holding voltage for a long time, preventing the relay from overheating and burning.

安全认证 SAFETY STANDARD APPROVALS

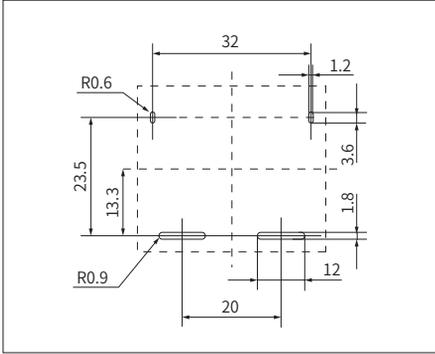
安全认证 Safety Standard Approvals	UL	CQC	VDE
证书编号 Certificate No.	E313266	CQC22002332031	40056311
负载 Rating	90A 320VAC Making 30 400VAC Loading 100 400VAC Breaking 30 400VAC	90A 320VAC Making 30 400VAC Loading 100 400VAC Breaking 30 400VAC	90A 320VAC 60A 320VAC 55A 480VAC 接通与分断 Make and break 30A, 载流 carry current 100A, 400VAC

外形尺寸、接线图、安装孔尺寸

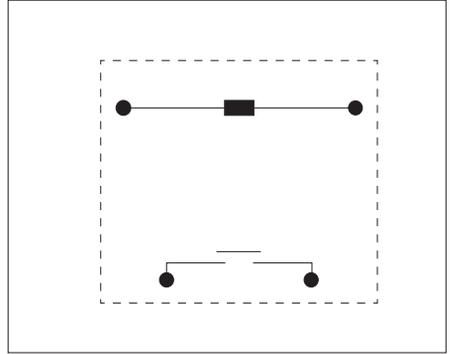
PROFILE DIMENSION, WIRING DIAGRAM AND PCB LAYOUT (单位 UNIT: mm)



安装孔尺寸 PCB LAYOUT (底视 BOTTOM VIEW)



接线图 WIRING DIAGRAM (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 $\pm 0.4\text{mm}$;
- 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。
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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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