

ME109

新能源应用

New Energy Applications

- 外形尺寸 L30.4×W15.9×H23.3mm
- 负载可达 50A 277VAC
- 触点间隙多种规格可选
- 适用于光伏逆变器、UPS 电源、工业控制等领域
- Dimension L30.4×W15.9×H23.3mm
- Loads up to 50A 277VAC
- Various specifications of contact gap are optional
- Suitable for photovoltaic inverters, UPS power supplies, industrial control and other fields



ME109 - S - 1 A - J W F 12VDC 0.9W

产品型号 Model	封装形式 Construction	触点组数 Number of Poles	触点形式 Contact Form	触点负载 Contact Load	触点间隙 Contact Gap	绝缘等级 Insulation Class	线圈电压 Coil Voltage	线圈功率 Coil Power
	S: 塑封型 Wash tight	1: 1 组 1 Pole	A: 常开 NO	无 : 低负载 (26A/31A/33A) J: 高负载 (40A/43A/50A) Nil: low load (26A/31A/33A) J: high load (40A/43A/50A)	无 Nil:1.8mm W: 0.8mm X: 1.5mm Y: 2.0mm Z: 2.3mm	F: F 级 Class	6VDC 9VDC 12VDC 24VDC	0.9W 1.4W 1.6W 3.8W

- 备注 Notes:
- 2.3mm 间隙仅有 1.4W 和 1.6W 可选，且仅可作低负载规格。
2.3mm contact gap is only available for 1.4W and 1.6W, and can only be used as low-load specification.
 - 0.9W 继电器触点间隙仅有 0.8mm 和 1.5mm 两种可选。
0.9W relay contact gap is only available in 0.8mm and 1.5mm.

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(初始 Initial)	≤ 100mΩ (1A 6VDC)
最大切换电流 Max. Switching Current	高负载 High Load 50A 低负载 Low Load 33A
最大切换电压 Max. Switching Voltage	400VAC
最大切换功率 Max. Switching Power	高负载 High Load 16000VA 低负载 Low Load 9141VA
电气寿命 Electrical Life	≥ 3×10 ⁴ 次 Ops (阻性负载 Res. Load, 85°C, 1s On: 9s Off)
机械寿命 Mechanical Life	触点间隙 Contact gap < 1.5mm: 1×10 ⁶ 次 Ops 触点间隙 Contact gap ≥ 1.5mm: 1×10 ⁵ 次 Ops

- 备注: 电气寿命数据仅做参考，以最终产品确认规格书为准。
Notes: The electrical life data is only for reference, and the final product confirmation specification shall prevail.

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: 4500VAC 1min	
	断开触点间 Between Open Contacts	1700VAC 1min (触点间隙 Contact gap < 1.5mm) 2500VAC 1min (触点间隙 Contact gap ≥ 1.5mm)
浪涌电压 Surge Voltage	10kV (1.2/50us)	
动作时间 Operate Time	≤ 20ms	
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: 196m/s ²	
	破坏性的 Destructive: 980m/s ²	
引出端形式 Termination	印制板式 PCB	
封装形式 Construction	塑封型 Wash tight	
重量 Unit Weight	约 Approx. 21g	

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 Ω±10%	线圈功耗 Coil Power W
6	≤ 4.2	≥ 0.3	6.6	9.5	3.8W
9	≤ 6.3	≥ 0.45	9.9	21.3	
12	≤ 8.4	≥ 0.6	13.2	38	
24	≤ 16.8	≥ 1.2	26.4	152	
6	≤ 4.5	≥ 0.3	6.6	22.5	1.6W
9	≤ 6.75	≥ 0.45	9.9	50.6	
12	≤ 9.0	≥ 0.6	13.2	90	
24	≤ 18	≥ 1.2	26.4	360	
6	≤ 4.5	≥ 0.6	6.6	25.7	1.4W
9	≤ 6.75	≥ 0.9	9.9	58	
12	≤ 9.0	≥ 1.2	13.2	103	
24	≤ 18	≥ 2.4	26.4	410	
6	≤ 4.5	≥ 0.6	6.6	40	0.9W
9	≤ 6.75	≥ 0.9	9.9	90	
12	≤ 9.0	≥ 1.2	13.2	160	
24	≤ 18	≥ 2.4	26.4	640	

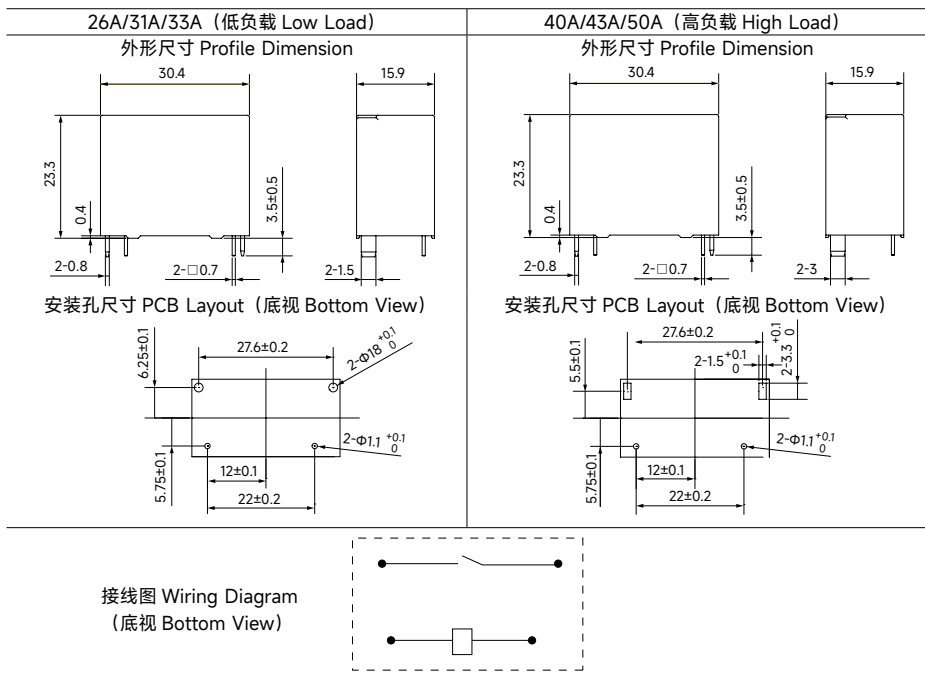
线圈保持电压 COIL HOLDING VOLTAGE

线圈功率 Coil Power	3.8W	< 3.8W
保持电压 Holding Voltage	40% to 70%U _N (at 23°C) 40% to 55%U _N (at 85°C)	50% to 100%U _N (at 23°C) 55% to 80%U _N (at 85°C)

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	UL	TUV	CQC	VDE
证书编号 Certificate No.	E313266	B1197500001	CQC22002333025	40057570
负 载 Load	26A 277VAC/30VDC 33A 277VAC COSφ0.8 43A 277VAC 50A 277VAC Making 20 277VAC Loading 50 277VAC Breaking 20 277VAC	26A 277VAC/30VDC 33A 277VAC COSφ0.8 43A 277VAC 50A 277VAC Making 20 277VAC Loading 50 277VAC Breaking 20 277VAC	26A 277VAC/30VDC 33A 277VAC COSφ0.8 43A 277VAC 50A 277VAC Making 20 277VAC Loading 50 277VAC Breaking 20 277VAC	16A 250/277VAC 20A 250/277VAC 22A 250/277VAC 25A 250/277VAC 26A 250/277VAC 16A 30VDC/20A 30VDC 22A 30VDC/25A 30VDC 26A 30VDC

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



声明 STATEMENT:

- 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.

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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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