

- 10A 触点切换能力
- 具有一组常开，一组转换触点形式
- 标准印制板引出脚
- 塑封型和防焊剂型可供选择
- 外形尺寸 L×W×H: 20.5×10.2×15.3mm
- 10A Switching capability
- 1 Form A and 1 Form C configurations
- Standard PCB layout
- Wash tight and Flux Proof types available
- Profile Dimension L×W×H: 20.5×10.2×15.3mm



MPDN	S	1	12	A	F
产品型号 Model	产品结构 Structure S: 塑封型 无: 防焊剂型 S: Wash tight Nil: Flux Proof	触点组数 Number of Poles 1: 1组 1 Pole	线圈电压 Coil Voltage 05, 06, 09, 12 18, 24, 48VDC	触点形式 Contact Form A: 常开 NO B: 常闭 NC C: 转换 NO/NC	绝缘等级 Insulation Class F: F级 无: 标准型, B级 F: Class F Nil: Standard type, Class B

触点参数 CONTACT PARAMETERS

触点形式 Contact Form		1a, 1b, 1c
触点材料 Contact Material		银合金 Silver Alloy
接触电阻 Contact Resistance(初始 Initial)		≤ 100mΩ(1A 6VDC)
触点负载 (阻性) Contact Rating (Res. load)	标准型 Standard Type	NO: 10A 250VAC NO: 5A 250VAC/30VDC
	灵敏型 Sensitive Coil Type	NC: 3A/5A 250VAC/30VDC
最大切换电流 Max. Switching Current		10A
最大切换电压 Max. Switching Voltage		250VAC/30VDC
最大切换功率 Max. Switching Power		2500VA/300W
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(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 Operate Time		≤ 8ms
释放时间 Release Time		≤ 5ms
环境温度 Ambient Temperature		-40℃ ~+105℃
振 动 Vibration		10Hz~55Hz 1.5mm 双振幅 (DA)
冲 击 Shock	功能性的 Functional	98m/s ² (10G)
	强度 Destructive	980m/s ² (100G)
引出端形式 Termination		印制板式 PCB
封装形式 Construction		塑封型 Wash tight 防焊剂型 Flux Proof
重 量 Unit Weight		约 Approx. 7g

线圈规格表 COIL DATA(23°C)

标准型 Standard Type					
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
5	≤ 3.75	≥ 0.25	7.5	62.5	约 Approx. 0.4
6	≤ 4.5	≥ 0.3	9	90	
9	≤ 6.75	≥ 0.45	13.5	202.5	
12	≤ 9	≥ 0.6	18	360	
18	≤ 13.5	≥ 0.9	27	810	
24	≤ 18	≥ 1.2	36	1440	
48	≤ 36	≥ 2.4	72	5760	

标准型 Standard Type					
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
5	≤ 3.75	≥ 0.25	7.5	55.5	约 Approx. 0.45
6	≤ 4.5	≥ 0.3	9	80	
9	≤ 6.75	≥ 0.45	13.5	180	
12	≤ 9	≥ 0.6	18	320	
18	≤ 13.5	≥ 0.9	27	720	
24	≤ 18	≥ 1.2	36	1280	
48	≤ 36	≥ 2.4	72	5120	

灵敏型 Sensitive Coil Type					
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
5	≤ 3.75	≥ 0.25	7.5	125	约 Approx. 0.2
6	≤ 4.5	≥ 0.3	9	180	
9	≤ 6.75	≥ 0.45	13.5	405	
12	≤ 9	≥ 0.6	18	720	
18	≤ 13.5	≥ 0.9	27	1620	
24	≤ 18	≥ 1.2	36	2800	
48	≤ 36	≥ 2.4	72	11520	

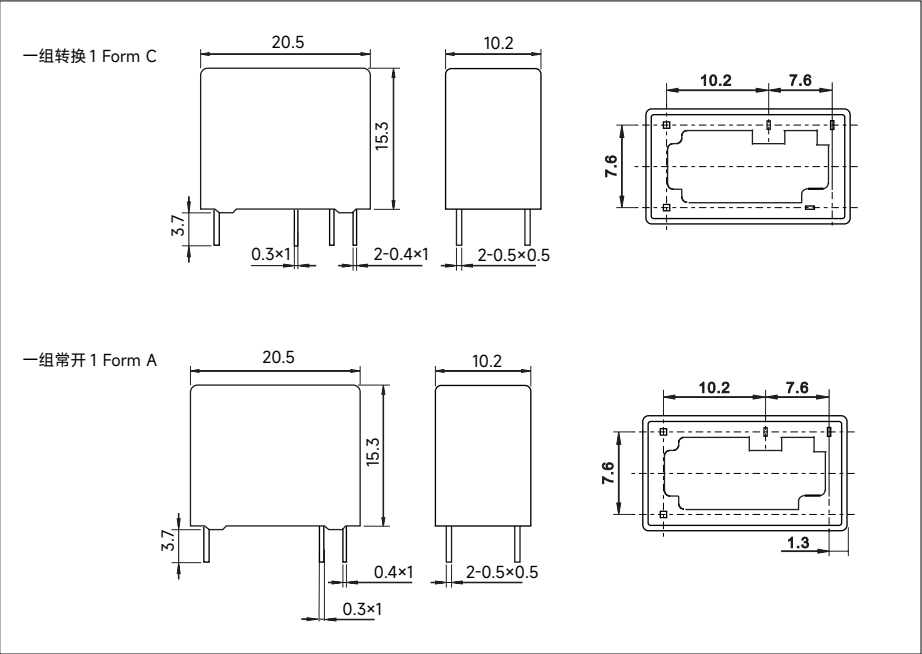
家电应用
Household Appliance Applications

安全认证 SAFETY STANDARD APPROVALS

安全认证 Safety Standard Approvals	UL	TUV	CQC
证书编号 Certificate No.	E358149	R50403369	18002195922
负载 Rating	NO(100k 105°C): 10A 277VAC/250VAC/125VAC 5A 277VAC/250VAC/30VDC 8A 250VAC 3A 250VAC/30VDC TV-5 120VAC 1/6HP 277VAC NO/NC (100k 105°C): NO: 10A 277VAC/250VAC/125VAC 5A 277VAC/250VAC/30VDC TV-5 120VAC 1/6HP 277VAC 1A 250VAC 3A 250VAC/30VDC 8A 250VAC NC: 3A 250VAC/30VDC 5A 277VAC /250VAC/30VDC 1A 250VAC	NO(100k 105°C): 10A 250VAC 8A 250VAC 5A 250VAC/30VDC 3A 250VAC/30VDC NO/NC(100k 105°C): NO:10A 250VAC 8A 250VAC 5A 250VAC/30VDC 3A 250VAC/30VDC NC: 3A 250VAC/30VDC 5A 250VAC/30VDC 1A 250VAC	NO (100k 105°C): NO:10A 277VAC/250VAC/125VAC 8A 277VAC/250VAC 5A 277VAC/250VAC/30VDC 3A 277VAC/250VAC/30VDC NC: 3A 250VAC/30VDC 5A 250VAC/30VDC 1A 250VAC

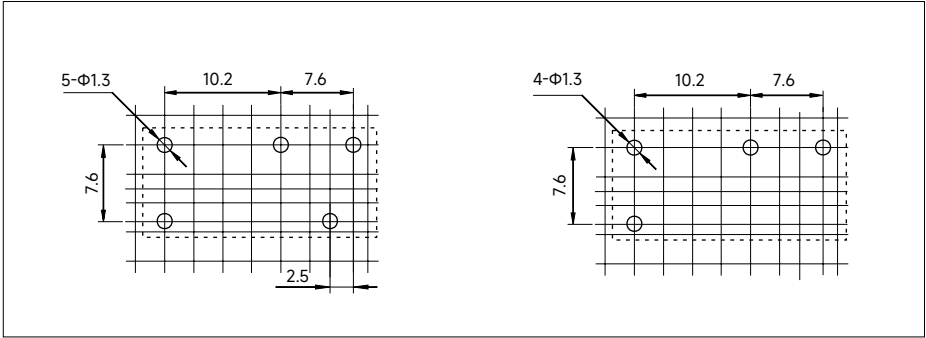
外形尺寸 (底视图) PROFILE DIMENSION (BOTTOM VIEW)

单位 Unit: mm



安装孔尺寸 PCB LAYOUT

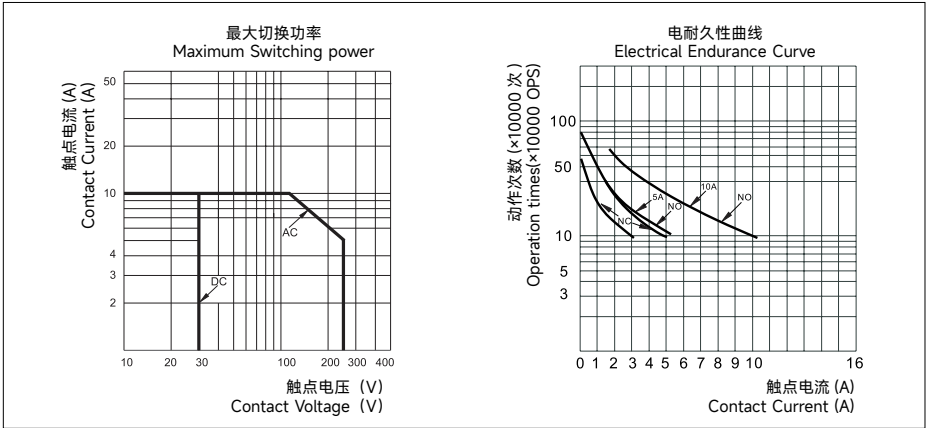
单位 Unit: mm



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 $\pm 0.1\text{mm}$.

性能曲线图 PERFORMANCE CURVE



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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