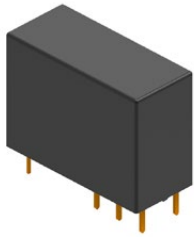


MP100

工控应用

Industrial Control Applications



- 一组 25A 触点切换能力
- 两组 16A 触点切换能力
- 线圈与触点间介质耐压 5kV
- 多种触点间隙类型
- 配有多种安装方式
- 配有多种插座可供选择
- 环保产品：（符合 RoHS）
- 1 pole of 16A contact switching capacity
- Two-pole of 16A contact switching capacity
- 5kV dielectric strength between coil and contacts
- Multiple contact gap types available
- Equipped with various mounting options
- Multiple socket options available
- Environmental protection products: (RoHS compliant)

MP100 - S - 1 12 D - A - 1 1 F G T - xxx

产品型号 Model	产品结构 Structure	触点组数 Number of Poles	线圈电压 Coil Voltage	电源形式 Power Supply Form	触点结构 Contact structure	结构形式 Structural Form	线圈功耗 Coil Power Consumption	绝缘等级 Insulation Class	触点形式 Contact Form	安装方式 Installation Method	特殊特性 Special characteristics
S: 密封型 S: Plastic packaging type 无 Ni: 防焊剂型 Ni free: flux proof		1: 1组 Pole 2: 2组 2-Pole	3, 5, 6, 9, 12, 15, 18, 24, 48, 60, 110, 220 (仅 only 14W) 6, 12, 24, 36, 48, 60, 72, 110, 120, 220, 230, 240VAC	D: 直流 direct A: 交流 communication	A: 常开 Normally open B: 常闭 Normally Closed C: 转换 transformation	11组 pole 3.5 脚距 foot pitch, 16A/12A 21组 pole 5.0 脚距 foot pitch, 16A 32组 pole 5.0 脚距 foot pitch, 12A 41组 pole 5.0 脚距 foot pitch, 25A 52组 pole 5.0 脚距 foot pitch, 16A	1: 0.53W (标准型) Standard 2: 0.8W 3: 1.4W (2.0mm 触点间隙 A 型, B 型, C 型和 1.5mm 触点间隙 C 型产品) Contact gap A, B, C and 1.5mm contact gap C products 4: 1.0-1.4VA	无: None /F: F 级 Class B: B 级 Level	无: 常规 None: General G: 镀金 G: Gliding	无: 焊接型 None: welding type T: 插件型 Plug type with lamp TB: 插件型且带灯按钮 Insert type with lamp and button	001: 单脚 One foot 3.5mm 脚距 Foot spacing 16A G15: 1.5mm 触点间隙 Contact gap G20: 2.0mm 触点间隙 Contact gap

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	1a,1b,1c	2a,2b,2c
触点材料 Contact Material	银合金 Silver alloy	
接触电阻 Contact Resistance	≤ 100mΩ (1A 6VDC)	
额定负载 Rated Load	25A 277VAC 16A 277VAC	16A 277VAC 12A 277VAC
最大切换电流 Max. Switching Current	25A/16A	16A/12A
最大切换电压 Max. Switching Voltage	277VAC/30VDC	
最大切换功率 Max. Switching Power	6925VA/750W	4432VA/480W
电气寿命 Electrical Life	1A: 1×10 ⁵ 次 OPS 1B: 5×10 ⁴ 次 OPS 1C: 3×10 ⁴ 次 OPS	2A: 3×10 ⁴ 次 OPS 2B: 3×10 ⁴ 次 OPS 2C: 1×10 ⁴ 次 OPS
机械寿命 Mechanical life	标准型: 1×10 ⁷ 次 OPS 1.5mm 触点间隙: 5×10 ⁵ 次 OPS 2.0mm 触点间隙: 1×10 ⁵ 次 OPS Standard type: 1×10 ⁷ OPS 1.5mm contact gap: 5×10 ⁵ OPS 2.0mm contact gap: 1×10 ⁵ OPS	

电气寿命
Electrical Life

一组 A group of
3x10⁴ (NC:NO:16A 250VAC, 阻性负载 Resistive load,
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴ (NC:NO:16A 24VDC, 阻性负载 Resistive load)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
1x10⁵ (NO: 16A 250VAC 阻性负载 Resistive load)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
1x10⁵ (NO: 16A 24VDC 阻性负载 Resistive load)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
5x10⁴ (NC: 16A 250VAC, 阻性负载 Resistive load)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
5x10⁴ (NC: 16A 24VDC, 阻性负载 Resistive load)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
1x10⁴ (NO: 25A 250VAC, 阻性负载 Resistive load)
常温 Normal temperature, 1s 通 On 9s 断 Off)
1x10⁴ (NC:25A 250VAC, 阻性负载 Resistive load)
常温 Normal temperature, 1s 通 On 9s 断 Off)

二组 2-pole
1x10⁴(NC:NO:12A 250VAC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴(NC:NO:10A 24VDC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴ (NO: 12A 250VAC 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
1x10⁵(NO:10A 250VAC 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴(NO: 12A 24VDC. 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
1x10⁵(NO: 10A 24VDC 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴(NC: 12A 250VAC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
5x10⁴(NC: 10A 250VAC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴ (NC: 12A 24VDC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
5x10⁴(NC: 10A 24VDC, 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
3x10⁴(NO:16A 250VAC 阻性负载 Resistive)
常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)
5x10⁴(NO: 14A 250VAC. 阻性负载 Resistive)
常温 Normal temperature, 1s 通 On 9s 断 Off)
3x10⁴(NO:16A 24VDC, 阻性负载 Resistive)
常温 Normal temperature, 1s 通 On 9s 断 Off)

工控应用
Industrial Control Applications

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: 常规型 Conventional: 1000VAC 1min 1.5mm 触点间隙 Contact gap: 2000 VAC 1min 2.0mm 触点间隙 Contact gap: 2500VAC 1min
	触点组间 : 3000VAC 1min
动作时间 Operate Time	≤ 20ms
释放时间 Release Time	≤ 15ms
环境温度 Ambient Temperature	-40°C ~+85°C
振 动 Vibration	10Hz~55Hz 1.5mm 双振幅
冲 击 Shock	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	塑封型, 防焊剂型 Plastic Wash tight, Flux Proof
重 量 Unit Weight	约 About 19g

交流线圈 AC coil					
额定电压 Rated Voltage VAC	动作电压 Action Voltage VAC	释放电压 Release Voltage VAC	最大容许电压 Maximum Allowable Voltage VAC	线圈电阻 Coil Resistance Ω±10%	线圈功耗 Coil Power Consumption VA
6	≤ 4.80	≥ 0.60	6.6	19	1.0-1.4
12	≤ 9.6	≥ 0.12	13.2	72	
24	≤ 19.2	≥ 0.24	26.4	290	
48	≤ 38.4	≥ 0.48	52.8	1200	
60	≤ 48	≥ 0.60	66	1800	
110	≤ 88	≥ 1.1	121	6000	
120	≤ 96	≥ 1.2	132	6000	
110/125	≤ 88/ ≤ 100	≥ 1.1/ ≥ 1.25	121/137.5	6000	
220	≤ 176	≥ 2.20	242	23000	
230	≤ 184	≥ 2.30	253	23000	
240	≤ 192	≥ 2.40	264	23000	
220/240	≤ 176/ ≤ 192	≥ 2.20 ≥ 2.4	242/264	23000	

线圈规格表 (23℃) COIL SPECIFICATION TABLE

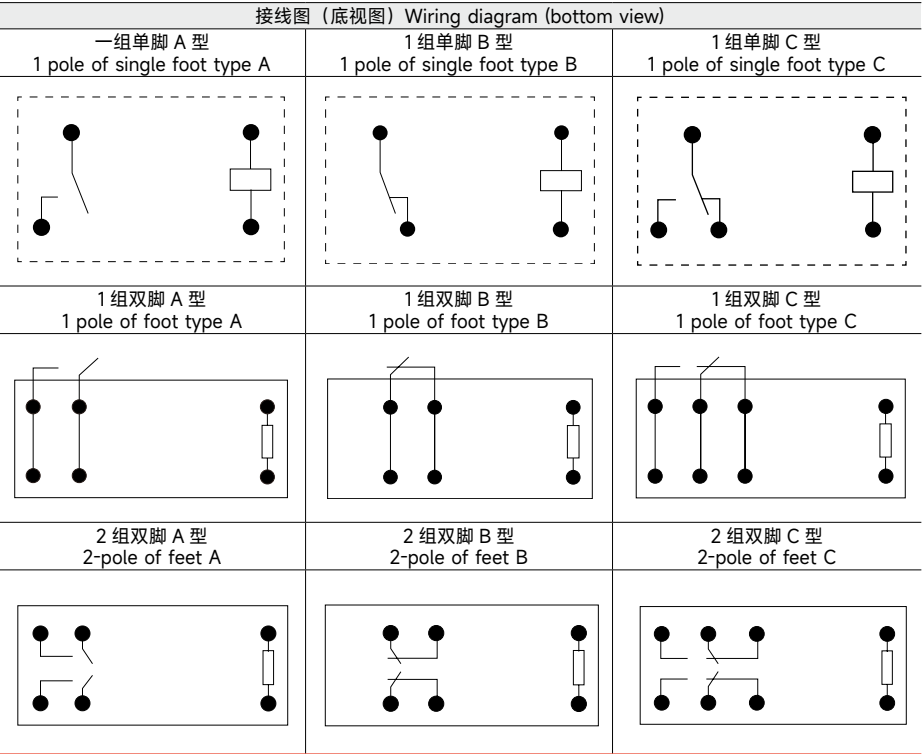
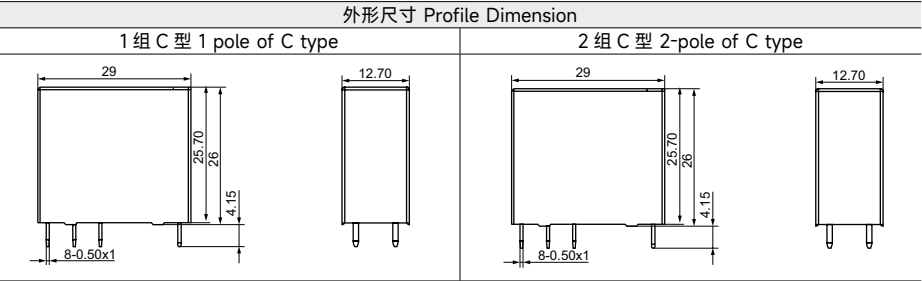
额定电压 Rated Voltage VDC	动作电压 Action Voltage VDC	释放电压 Release Voltage VDC	最大容许电压 Maximum Allowable Voltage VDC	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power Consumption W
3	≤ 2.40	≥ 0.15	3.3	17	标准型 Standard 0.53
5	≤ 4.00	≥ 0.25	5.5	47	
6	≤ 4.80	≥ 0.30	6.6	67	
9	≤ 7.20	≥ 0.45	9.9	152	
12	≤ 9.60	≥ 0.60	13.2	270	
15	≤ 12.0	≥ 0.75	16.5	420	
18	≤ 14.4	≥ 0.90	19.8	610	
24	≤ 19.2	≥ 1.20	26.4	1080	
36	≤ 28.8	≥ 1.80	39.6	2445	
48	≤ 38.4	≥ 2.40	52.8	4345	
60	≤ 48.0	≥ 3.00	66.0	6790	
110	≤ 88.0	≥ 5.50	121.0	22800	
3	≤ 2.40	≥ 0.15	3.3	6	2.0/1.8mm 触点间隙 Contact gap 1.4
5	≤ 4.00	≥ 0.25	5.5	18	
6	≤ 4.80	≥ 0.30	6.6	26	
9	≤ 7.20	≥ 0.45	9.9	58	
12	≤ 9.60	≥ 0.60	13.2	102	
15	≤ 12.0	≥ 0.75	16.5	160	
18	≤ 14.4	≥ 0.90	19.8	230	
24	≤ 19.2	≥ 1.20	26.4	410	
36	≤ 28.8	≥ 1.80	39.6	925	
48	≤ 38.4	≥ 2.40	52.8	1650	
60	≤ 48.0	≥ 3.00	66.0	2570	
110	≤ 88.0	≥ 5.50	121.0	8068	
3	≤ 2.40	≥ 0.15	3.3	11.3	标准型 Standard 0.8
5	≤ 4.00	≥ 0.25	5.5	31	
6	≤ 4.80	≥ 0.30	6.6	45	
9	≤ 7.20	≥ 0.45	9.9	101	
12	≤ 9.60	≥ 0.60	13.2	180	
15	≤ 12.0	≥ 0.75	16.5	280	
18	≤ 14.4	≥ 0.90	19.8	405	
26	≤ 19.2	≥ 1.20	26.4	720	
36	≤ 28.8	≥ 1.80	39.6	1620	
48	≤ 38.4	≥ 2.40	52.8	2880	
60	≤ 48.0	≥ 3.00	66.0	4500	
110	≤ 88.0	≥ 5.50	121.0	15100	

工控应用
Industrial Control Applications

安全认证 SECURITY CERTIFICATION APPROVALS

安全认证 Security certification	UL	TUV	CQC
证书编号 Certificate No	CQC23002388382	E534086	R50580016

外形尺寸、接线图、安装孔尺寸 (单位: mm)
BOUNDARY DIMENSION, WIRING DIAGRAM AND MOUNTING HOLE DIMENSION (UNIT: MM)



安装孔尺寸 (底视图) Mounting hole size (bottom view)

1 组单脚 3.5mm A 型 1 pole of single leg 3.5mm A type	1 组单脚 3.5mm B 型 1 pole of single leg 3.5mm B type	1 组单脚 3.5mm C 型 1 pole of single leg 3.5mm C type
1 组双脚 5.0mm A 型 -16A 1 pole of feet 5.0mm A-16A	1 组双脚 5.0mm B 型 -16A 1 pole of feet 5.0mm B-16A	1 组双脚 5.0mm C 型 -16A 1 pole of feet 5.0mm C-16A
1 组双脚 5.0mm A 型 -25A 1 pole of feet 5.0mm A-25A	1 组双脚 5.0mm B 型 -25A 1 pole of feet 5.0mm B-25A	1 组双脚 5.0mm C 型 -25A 1 pole of feet 5.0mm C-25A
2 组双脚 5.0mm A 型 -12A 2-pole of feet 5.0mm A-12A	2 组双脚 5.0mm B 型 -12A 2-pole of feet 5.0mm B-12A	2 组双脚 5.0mm C 型 -12A 2-pole of feet 5.0mm C-12A
2 组双脚 5.0mm A 型 -16A 2-pole of feet 5.0mm A-16A	2 组双脚 5.0mm B 型 -16A 2-pole of feet 5.0mm B-16A	2 组双脚 5.0mm C 型 -16A 2-pole of feet 5.0mm C-16A

MP100

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。
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All items are subject to the actual products.



继电器综合样本

RELAYS COMPONENTS



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Eco paper printing

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