



美硕 MEISHUO

MPI 超小型中功率继电器 SUBMINIATURE MEDIUM POWER RELAY



特性 FEATURES

16A 触点切换能力
低高度, 仅为 15.7mm
多种触点形式可供选择
配有多种插座可供选择
外形尺寸 29.0×15.9×12.7mm

16A Contact switching capability
Low height: 15.7mm
Kinds contact Form available
Kinds socket available
Outline dimensions 29.0×15.9×12.7mm

触点参数 CONTACT PARAMETERS

触点形式 Contact Arrangement	1A、1B、1C	2A、2B、2C
触点材料 Contact Material	银合金 Silver Alloy	
接触电阻 Contact Resistance(初始 Initial)	≤100mΩ (1A 6VDC)	
额定负载 Rated Load	1C: NO/NC: 16A/8A 250VAC(阻性 Resistive) NO/NC: 12A/6A 250VAC(阻性 Resistive) 2C: NO/NC: 8A/4A 250VAC(阻性 Resistive)	
最大切换电流 Max. Switching Current	12A/16A	8A
最大切换电压 Max. Switching Voltage	440VAC	
最大切换功率 Max. Switching Power	3000VA/4000VA	2000VA
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: 5000VAC 1min
	断开触点间 Between Open Contacts: 1000VAC 1min
动作时间 Operate Time	≤15ms
释放时间 Release Time	≤8ms
环境温度 Ambient Temperature	-40°C~+105°C
振动 Vibration Resistance	10Hz~55Hz 1.5mm 双振幅(DA)
冲击 Shock Resistance	稳定性 Functional: 98m/s ² (10G)
	强度 Destructive: 980m/s ² (100G)
引出端方式 Terminal Form	印制板式 PCB
封装形式 Construction	塑封型 Sealed 防焊剂型 Flux proofed
重量 Unit Weight	约 Approx. 13.5g



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线圈规格表 COIL DATA(23°C)

灵敏型 Sensitive Type					
额定电压 Rated Voltage VDC	动作电压 Operate Voltage VDC	释放电压 Release Voltage VDC	最大允许电压 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	约 Approx. 0.4
6	≤4.5	≥0.3	9	90	
9	≤6.75	≥0.45	13.5	202	
12	≤9.0	≥0.6	18	360	
18	≤13.5	≥0.9	24	810	
24	≤18	≥1.2	36	1440	
48	≤36	≥2.4	72	5760	
110	≤82.5	≥5.5	165	30250	

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	最大允许电压 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	47	约 Approx. 0.53
6	≤4.5	≥0.3	9	68	
9	≤6.75	≥0.45	13.5	153	
12	≤9.0	≥0.6	18	153	
18	≤13.5	≥0.9	24	611	
24	≤18	≥1.2	36	1086	
48	≤36	≥2.4	72	4347	
110	≤82.5	≥5.5	165	22830	

安全认证 APPROVALS

安全认证 Approvals	UL	TUV	CQC
证书编号 Certificate Number	E358149	R50302776	CQC15002122984
负载 Rating	NO:12A 250VAC/277 1HP 250VAC 1/2HP 250VAC/120VAC 1/3HP 120VAC 1/4HP 120VAC 16A 250VAC 8A 250VAC NC:12A 250VAC/277VAC 8A 250VAC/277VAC 6A 250VAC/277VAC 4A 250VAC/277VAC	8A 250VAC 16A 250VAC 12A 250VAC	8A 250VAC/277VAC 16A 250VAC/277VAC 12A 250VAC/277VAC



订货标记示例 ORDERING INFORMATION

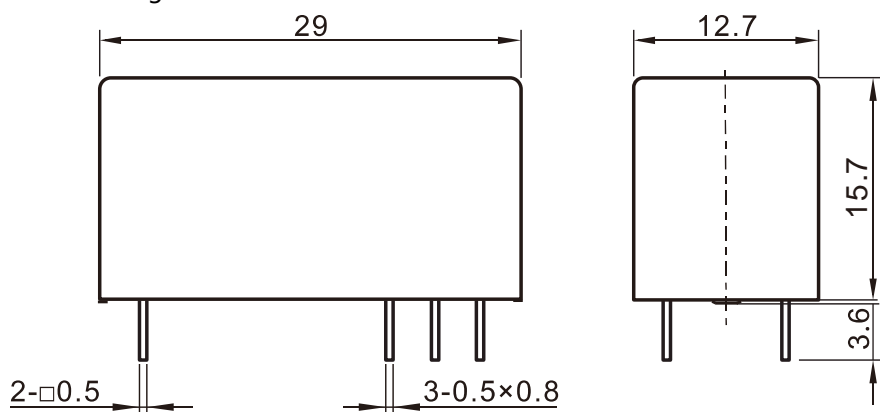
	MPI	-S	-1	12	-C	-1	N	F
产品型号 Model:	MPI							
产品结构 Structure:	S: 塑封型 Sealed 无 Ni: 防焊剂型 Flux proofed							
触点组数 Contact Group:	1: 1 组 1 Group 2: 2 组 2 Groups							
线圈电压 Coil Voltage:	5、6、9、12、18、24、48、110VDC							
触点形式 Contact arrangement	A: 常开 NO B: 常闭 NC C: 转换 NO/NC							
结构形式 Contact Form:	1:1 组, 3.5mm 12A 1 Group 12A 2:1 组, 5.0mm 12A 1 Group 12A 3:1 组, 5.0mm 16A 1 Group 16A 4:2 组, 5.0mm 8A 2 Group 8A							
线圈功耗 Coil power	无 Ni: 0.4W N: 0.53W							
绝缘等级 Insulation Class	无: 标准型, B 级 Ni: Standard Type, Class B				F: F 级 F: Class F			

外形尺寸、接线图、安装孔尺寸 OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT (单位 Unit: mm)

外形尺寸 Outline Dimensions

3.5mm 引出脚间距
3.5mm Pinning

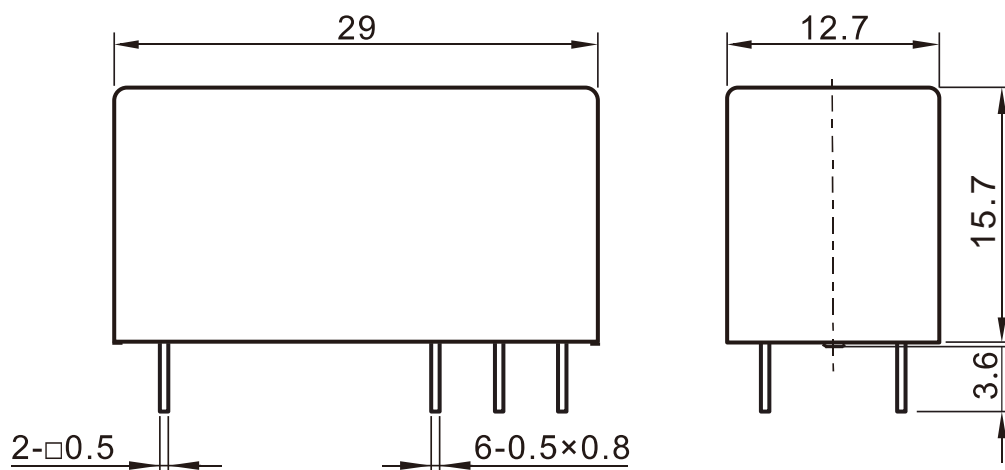
(MPI-□-□□□-□-1)





5.0mm 引出脚间距 (MPI-□-□□□-□-2)

5.0mm Pinning



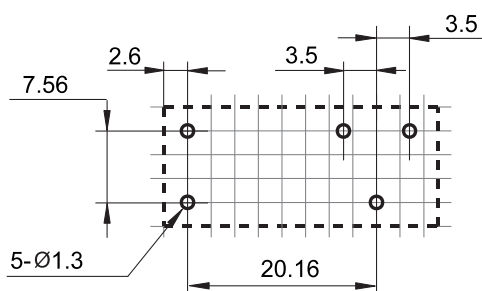
备注: (1) 产品部分外形尺寸未注尺寸公差, 当外形尺寸≤1mm, 公差为±0.2mm; 当外形尺寸在 1~5mm 之间时, 公差为±0.3mm; 当外形尺寸 > 5mm 时, 公差为±0.4mm;

(2) 安装孔尺寸中未注尺寸公差的均为±0.1mm。

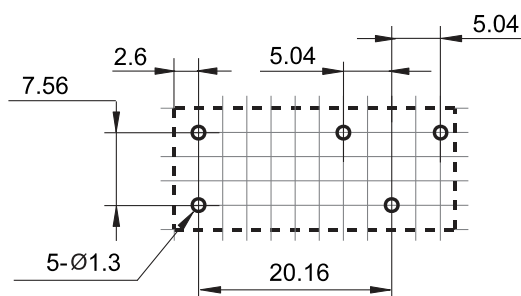
REMARK:

- 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension > 1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension > 5mm, tolerance should be ±0.4mm;
- 2) The tolerance without indicating for PCB layout is always ±0.1mm.

3.5mm 1组 12A

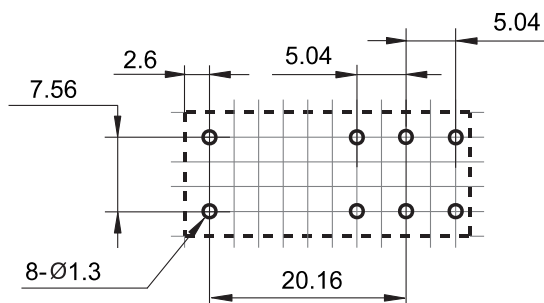


5mm 1组 12A

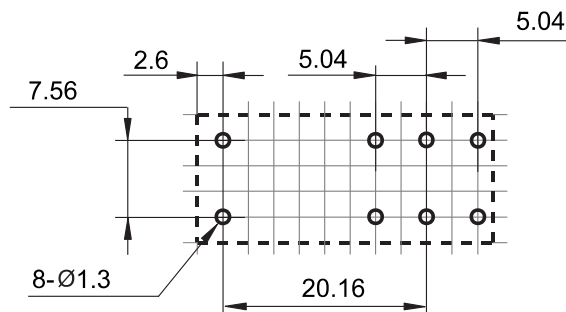




5mm 1组 16A



5mm 2组 8A



接线图 Wiring Diagram (底视 Bottom View)

3.5mm, 1组, 12A, (MPI-□-1□□-□-1-□□)



1A



1B

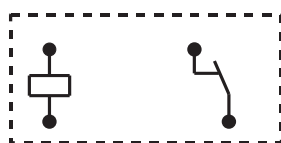


1C

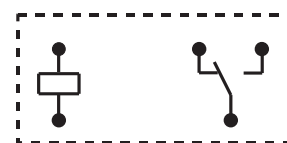
5mm, 1组, 12A,16A, (MPI-□-1□□-□-2-□□)



1A



1B



1C

5mm, 1组, 12A,16A, (MPI-□-1□□-□-3-□□)



1A



1B

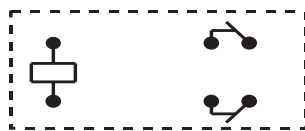


1C

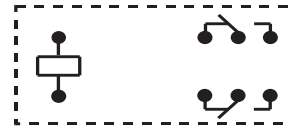
5mm, 2组, 8A, (MPI-□-2□□-□-4-□□)



2A



2B



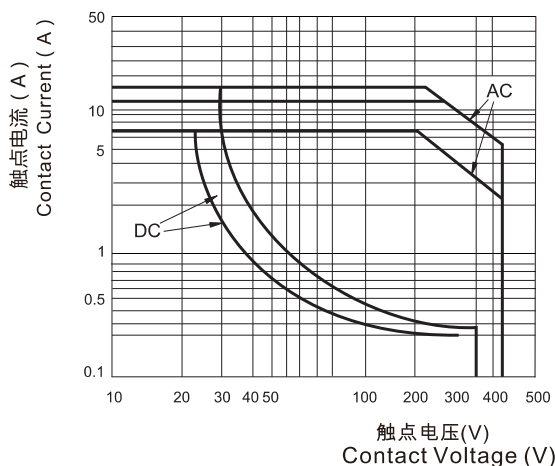
2C



性能曲线图 PERFORMANCE CURVE

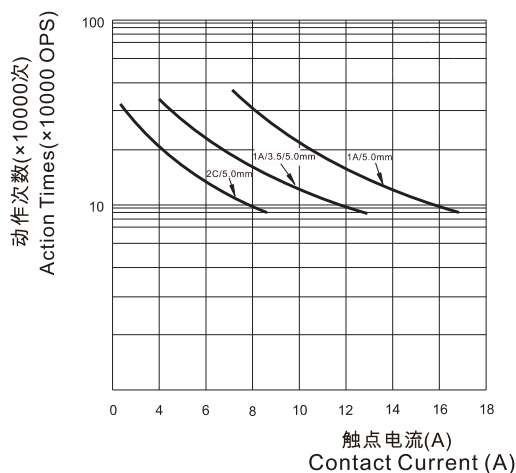
最大切换功率

Maximum Switching Power



电耐久性曲线

Electrical Endurance Curve



声明:

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。(数据取自标准环境温度 20°C下)

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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This product specification for client's reference, if any change without notice.

For Meishuo, can not require evaluation of relays in each specific application of all the performance parameters, so customers should be selected according to the matching conditions for the use of specific products, if you have any questions, please contact us and get more technical support. However, product selection responsibility only by the customer.

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