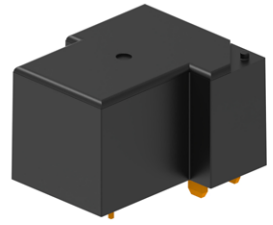


# MPQ1



- 40A 触点切换能力
- 触点与线圈间耐压 3.5KV
- 敞开型，塑封型和防尘罩型可供选择
- F 级线圈绝缘等级
- 外形尺寸 L × W × H: 31.8 × 27.1 × 19.4mm
- 40A Switching capability
- 3.5KV Dielectric strength (Between coil and contacts)
- Open type, sealed and dust protected available
- Class F insulation available
- Outline dimensions L × W × H: 31.8 × 27.1 × 19.4mm

**MPQ1** - **S** - **1** **12** **D** - **A** - **6** - **01**

产品型号 Model	产品结构 Structure	触点组数 Contact Group	线圈电压 Coil Voltage	线圈电源 Coil Power	触点形式 Contact Arrangement	引出端形式 Termination	特殊参数 Special parameters
	S: 塑封型 无: 防尘罩型 S: Sealed Nil: Dust cover type	1: 1组 1: 1 Group	05, 06, 09 12, 18, 24 48, 110VDC	D: 直流 D: DC	A: 常开 B: 常闭 C: 转换 A: NO B: NC C: NO/NC	6: 有 6 号引出脚 无: 没有 6 号引出脚 6: With #6 Terminal Nil: Without #6 Terminal	无: 标准型; 数字或字母: RTIII 或其他 Nil: Standard type; Numbers or letters: RTIII or other

## 触点参数 Contact Parameters

触点形式 Contact Arrangement	1A, 1B, 1C
触点材料 Contact Material	银合金 Silver Alloy
接触电阻 Contact Resistance( 初始 Initial)	≤50mΩ (1A 6VDC)
额定负载 ( 阻性 ) Rated Load(Resistive)	NO: 30A 250VAC/30VDC NO: 40A 250VAC NC: 20A 250VAC/30VDC
最大切换电流 Max. Switching Current	NO/ NC: 40A/20A
最大切换电压 Max. Switching Voltage	250VAC/30VDC
最大切换功率 Max. Switching Power	10000VA/1200W
电气寿命 Electrical Life	1 × 10 <sup>5</sup> 次 OPS
机械寿命 Mechanical Life	1 × 10 <sup>6</sup> 次 OPS

## 性能参数 Characteristics

绝缘电阻 Insulation Resistance	1000MΩ (at 500VDC)	
介质耐压 Dielectric Strength	触点与线圈间 Between Coil & Contacts: 3500VAC 1min 断开触点间 Between Open Contacts: 1500VAC 1min	
动作时间 Set time	≤15ms	
复归时间 Reset time	≤10ms	
环境温度 Ambient Temperature	-40℃ ~+105℃	
振动 Vibration	10Hz~55Hz 1.5mm 双振幅 (DA)	
冲击 Shock	稳定性 Functional	98m/s <sup>2</sup> (10G)
	强度 Destructive	980m/s <sup>2</sup> (100G)
引出端方式 Terminal Form	印制板式 PCB	
封装形式 Construction	敞开型 Unenclosed	
	塑封型 Sealed	
	防尘罩型 Dust Protected	
重量 Unit Weight	约 Approx.35g	

# MPQ1

线圈规格表 COIL DATA(23℃)

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	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power W
5	≤3.75	≥0.25	7.5	28	约 Approx. 0.9
6	≤4.5	≥0.3	9	40	
9	≤6.75	≥0.45	13.5	90	
12	≤9.0	≥0.6	18	160	
18	≤13.5	≥0.9	27	360	
24	≤18	≥1.2	36	640	
48	≤36	≥2.4	72	2560	
110	≤82.5	≥5.5	165	13444	
5	≤3.75	≥0.25	7.5	11	约 Approx. 2.25
9	≤6.75	≥0.45	13.5	36	
12	≤9.0	≥0.6	18	64	
24	≤18	≥1.2	36	256	
48	≤36	≥2.4	72	1024	

## 安全认证 Approvals

安全认证 Approvals	UL	TUV	CQC
证书编号 Certificate No.	E358149	R50184977	CQC10002051838
负载 Rating	1A:30A 240VAC/30VDC 1B:20A 240VAC/30VDC 1C(NO):30A 240VAC 20A 30VDC 1C(NC):20A 240VAC/30VDC 1A:40A 250VAC	1A:30A 240VAC/30VDC 1C(NO):20A 240VAC/30VDC 1C(NC):10A 240VAC/30VDC	NO:30A 250VAC/30VDC 40A 250VAC 30A 240VAC NC:20A 240VAC/30VDC 30A 250VAC 20A 250VAC

# MPQ1

## 外形尺寸, 接线图, 安装孔尺寸 Outline Dimensions, Wiring Diagram And Pcb Layout

单位 Unit: mm

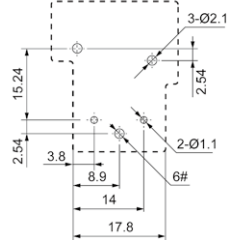
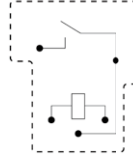
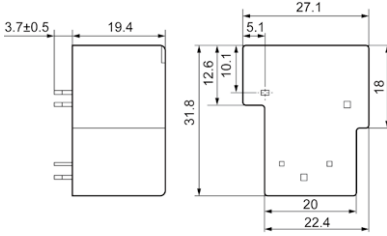
### 外形尺寸 Outline Dimensions

### 接线图 Wiring Diagram

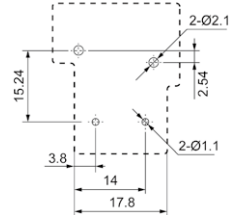
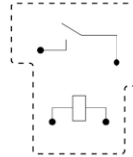
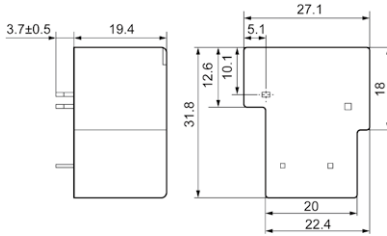
### 安装孔尺寸 PCB Layout

一组常开 (1 Form A)

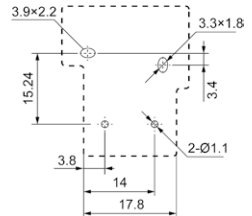
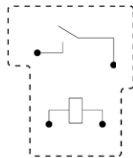
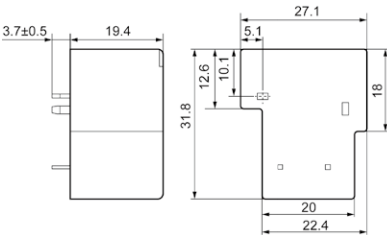
包含 6 号引出脚 With #6 Terminal



不包含 6 号引出脚 Without #6 Terminal



不包含 6 号引出脚 Without #6 Terminal (40A 2.25W)



# MPQ1

## 外形尺寸, 接线图, 安装孔尺寸 Outline Dimensions, Wiring Diagram And Pcb Layout

单位 Unit: mm

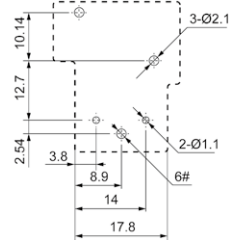
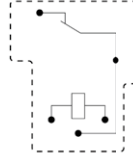
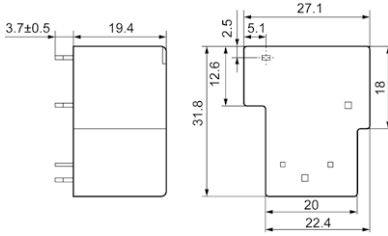
### 外形尺寸 Outline Dimensions

### 接线图 Wiring Diagram

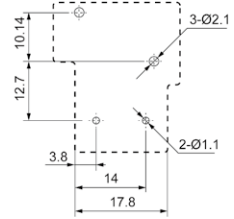
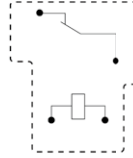
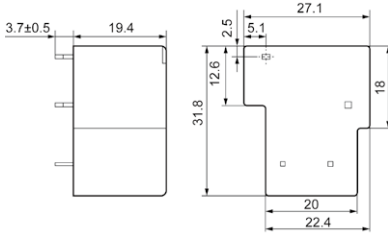
### 安装孔尺寸 PCB Layout

一组常闭 (1 Form B)

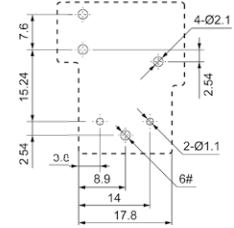
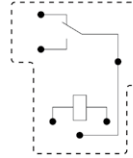
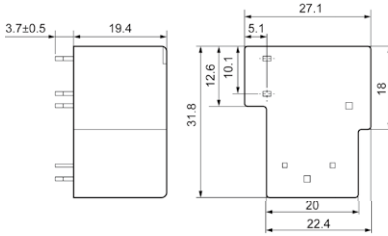
包含 6 号引出脚 With #6 Terminal



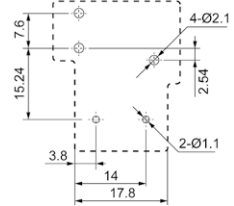
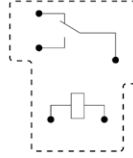
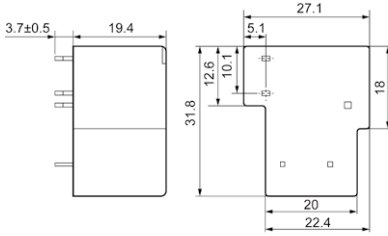
不包含 6 号引出脚 Without #6 Terminal



包含 6 号引出脚 With #6 Terminal



不包含 6 号引出脚 Without #6 Terminal



# MPQ1

## 外形尺寸, 接线图, 安装孔尺寸 Outline Dimensions, Wiring Diagram And Pcb Layout

单位 Unit: mm

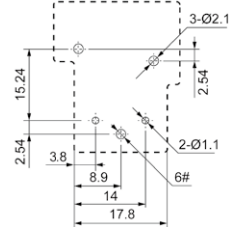
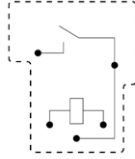
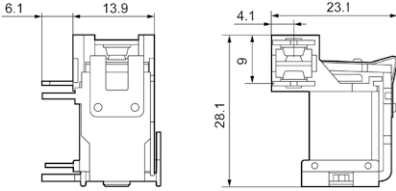
外形尺寸 Outline Dimensions

接线图 Wiring Diagram

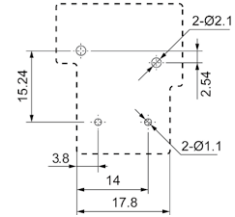
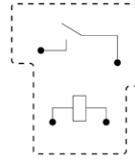
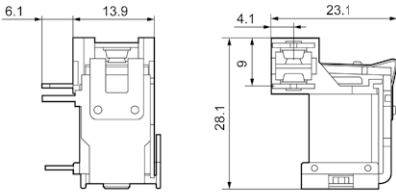
安装孔尺寸 PCB Layout

敞开型一组常开 (1 Form A Unenclosed)

包含 6 号引出脚 With #6 Terminal

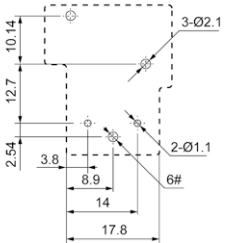
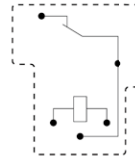
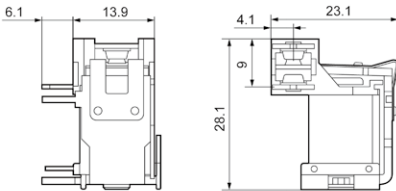


不包含 6 号引出脚 Without #6 Terminal

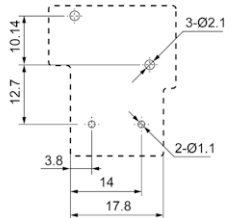
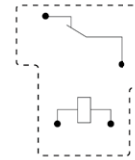
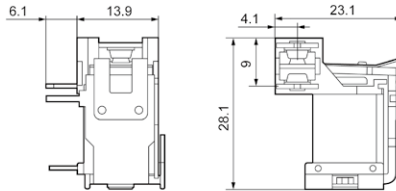


敞开型一组常闭 (1 Form B Unenclosed)

包含 6 号引出脚 With #6 Terminal

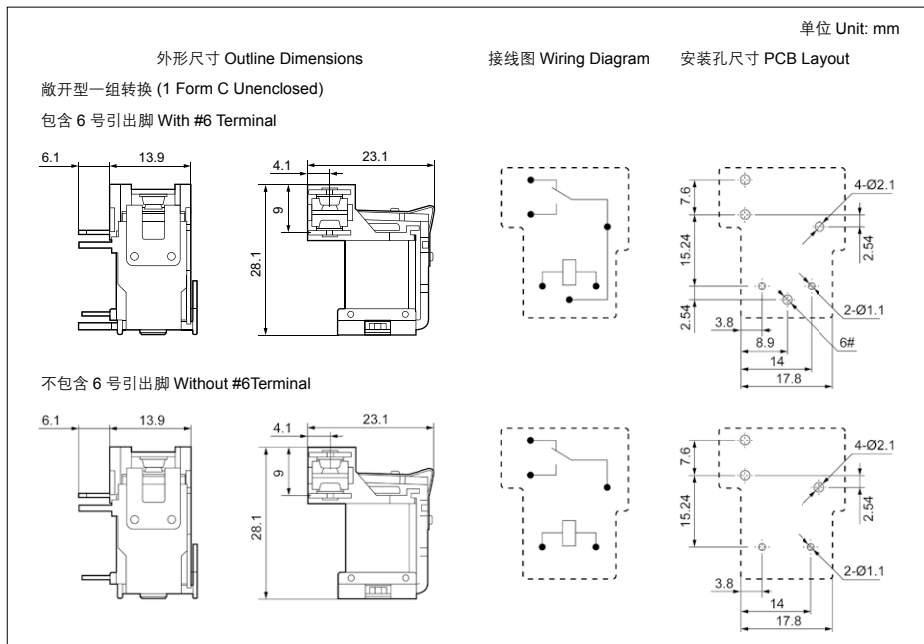


不包含 6 号引出脚 Without #6 Terminal



# MPQ1

## 外形尺寸, 接线图, 安装孔尺寸 Outline Dimensions, Wiring Diagram And Pcb Layout



备注: (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  $\pm 0.4\text{mm}$ ;  
 (2) 安装孔尺寸中未注尺寸公差均为  $\pm 0.1\text{mm}$ 。

### REMARK:

- (1) 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) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

## 性能曲线图 Performance Curve

