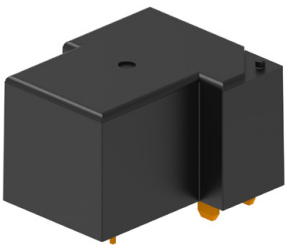


MPQ1

- 外形尺寸 L31.8×W27.1×H19.4mm
- 60A 触点切换能力
- 触点和线圈间耐压 4KV
- 适用于光伏逆变器，UPS 电源，充电桩等领域
- F 级线圈绝缘等级
- 对标宏发 HF165FD-G、HF165F-50、中汇瑞德 CHS01
- Overall dimensions L31.8×W27.1×H19.4mm
- 60A contact switching capability
- Withstand voltage 4KV between contact and coil
- Suitable for photovoltaic inverter, UPS power supply, charging pile and other fields
- Class F coil insulation class
- Benchmarking Hongfa HF165FD-G, HF165F-50, Zhonghui Ruide CHS01



MPQ1

S

1

12

D

A

产品型号 Model	产品结构 Structure	触点组数 Number of Poles	线圈电压 Coil Voltage	线圈电源 Coil Power	触点形式 Contact Arrangement
	S: 塑封型 S: Wash tight	1: 1 组 1 Pole	05, 06, 09 12, 24 48VDC	D: 直流 DC	A: 常开 NO

触点参数 CONTACT PARAMETERS

触点形式 Contact Arrangement	1a
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)	40A 250VAC
	50A 277VAC
	60A 277VAC
最大切换电流 Max. Switching Current	60A
最大切换电压 Max. Switching Voltage	277VAC
最大切换功率 Max. Switching Power	16620VA
电气寿命 Electrical Life	1×10 ⁶ 次以上 More than
机械寿命 Mechanical Life	40A:3×10 ⁴ 次以上 More than
	50A:3×10 ⁴ 次以上 More than (on-off 15A current-carrying 50A)
	60A:3×10 ⁴ 次以上 More than (on-off 15A current-carrying 60A)

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: 4000VAC 1min
	断开触点间 Between Open Contacts: 2500VAC 1min
动作时间 Set time	≤ 15ms
复归时间 Reset time	≤ 10ms
环境温度 Ambient Temperature	-40℃ ~+85℃
振 动 Vibration	10Hz~55Hz 1.5mm 双振幅 (DA)
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 Terminal form	印制板式 PCB
封装形式 Construction	塑封型 Wash tight
重 量 Unit Weight	约 Approx.35g

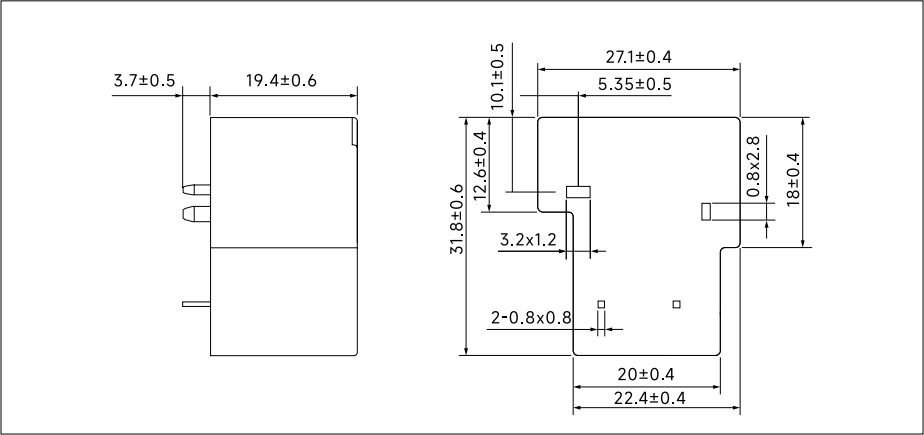
线圈规格表 COIL DATA(23℃)

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 Ω±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	约 Approx. 2.25
5	≤ 3.75	≥ 0.25	7.5	11	
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	

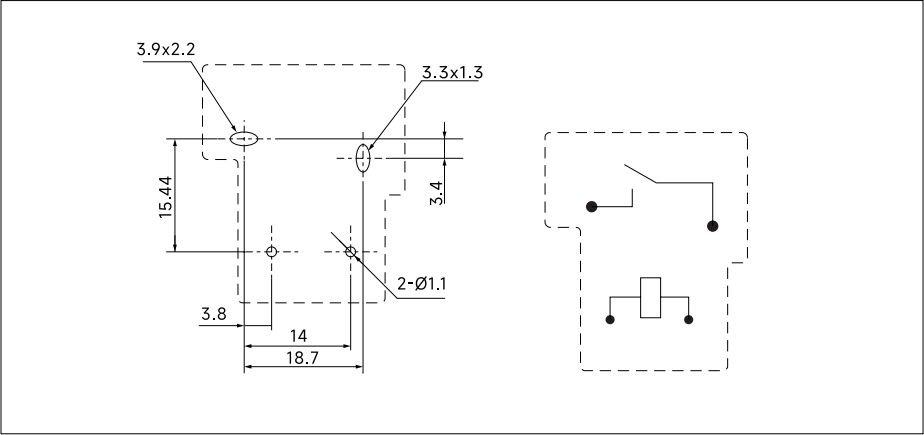
安全认证 SAFETY STANDARD APPROVALS

安全认证 Safety Standard Approvals	UL	TUV	CQC
证书编号 Certificate No.	E358149	50184977	CQC10002051838
负载 Rating	40A 250VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 50A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 60A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC	40A 250VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 50A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 60A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC	40A 250VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 50A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC 接通 Making 15A 240VAC/250VAC/277VAC 载流 Loading 60A 240VAC/250VAC/277VAC 断开 Breaking 15A 240VAC/250VAC/277VAC

外形尺寸图 OUTLINE DIMENSIONAL DRAWING



安装孔尺寸及接线图 MOUNTING HOLE DIMENSIONS AND WIRING DIAGRAM

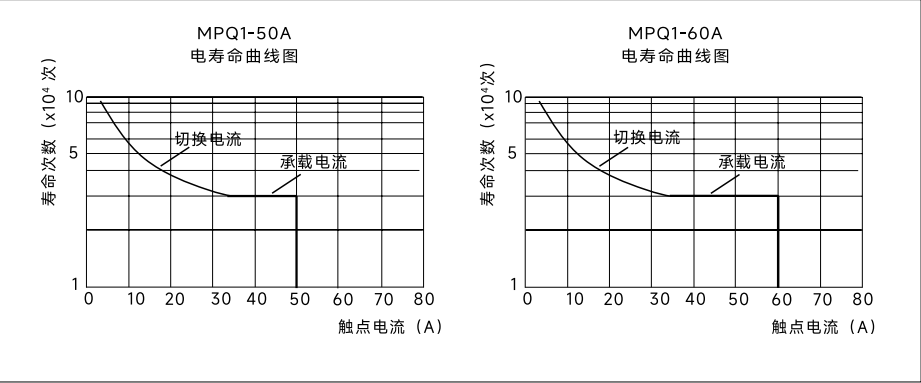


备注: (1) 产品部分外形尺寸未注尺寸公差, 当外形尺寸 ≤ 1 mm, 公差为 ± 0.2 mm;
当外形尺寸在 1-5mm 之间时, 公差为 ± 0.3 mm; 当外形尺寸 > 5 mm 时, 公差为 ± 0.4 mm;
(2) 安装孔尺寸中未注尺寸公差均为 ± 0.1 mm。

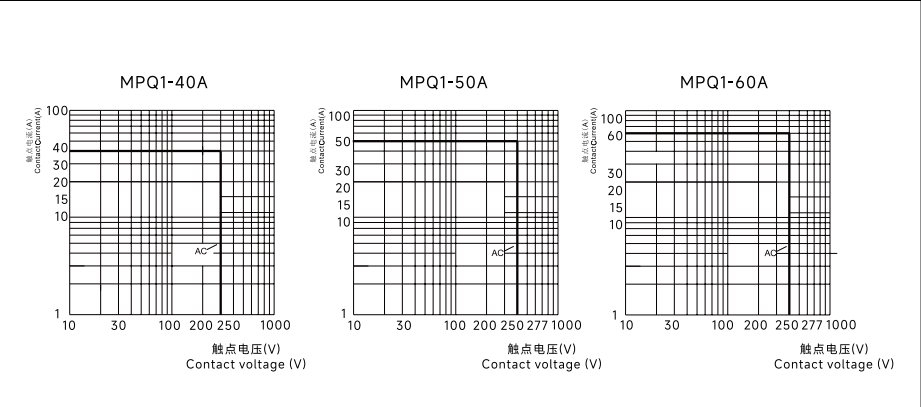
REMARK:

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

电寿命曲线图 ELECTRICAL LIFE CURVE



最大切换功率 MAXIMUM SWITCHING POWER



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的均为 $\pm 0.1\text{mm}$ 。

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 $\pm 0.1\text{mm}$.

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。
For Meishuo, cannot 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.