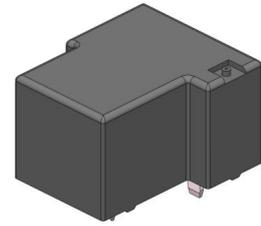


POWER RELAY 功率继电器	HJQ-15FW
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- High power&low cost 大容量低成本
- 50A switching capability 50A 转换能力
- Multiple gaps to choose from 多种间隙可供选择
- Class B/F available 可提供 F 绝缘等级
- Conform to RoHS,ELV directive 符合 RoHS、ELV 指令



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载(COS Φ=1)
Contact Ratings 触点负载	50A 250VAC
Min. Contact Load 最小负载	1A 6VDC
Max. Switching Voltage 最大切换电压	250VAC
Max. Switching Current 最大切换电流	50A
Max. Switching Power 最大切换功率	12500VA
Contact Resistance 接触电阻	≤100mΩ (6VDC 1A)
Electrical Endurance 电耐久性	3×10 ⁴ OPS(at 6 OPS/min) 3×10 ⁴ 次(6次/分钟)
Mechanical Endurance 机械耐久性	1×10 ⁶ OPS(at 300 OPS/min) 1×10 ⁶ 次(300次/分钟)

备注:

继电器耐久性是在打开透气孔条件下完成.

Remark:

The durability of the relay is tested under the condition of opening the vent hole.

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻	1000MΩ Min. at 500VDC	
Dielectric Strength 介质耐压	Between Open Contacts 触点间	L形: 1500VAC (50/60Hz 1 min) D形: 2000VAC (50/60Hz 1 min) N形: 2500VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	4000VAC (50/60Hz 1 min)
Operate Time 动作时间	≤15ms	
Release Time 释放时间	≤10ms	
Ambient Temperature 环境温度	-40℃ ~ +85℃	
Shock Resistance 冲击	Functional 稳定性: 10G	
	Destructive 强度: 100G	
Vibration Resistance 振动	10~55Hz, 1.5mm DA 双振幅	
Humidity 湿度	5~85%	
Unit Weight 重量	Approx. 36g 约36克	

COIL DATA 线圈参数 (at 23℃)

Rated Voltage 额定电压 (VDC)	5	6	9	12	18	24	48	110	0.9W
Coil Resistance 线圈阻值(Ω ±10%)	28	40	90	160	360	640	2560	13400	
Rated Current 额定电流(mA)	180	150	100	75	50	37.5	18.75	8.2	

Max Operate Voltage 最大吸合电压(VDC)	3.75	4.5	6.75	9	13.5	18	36	82.5
Min Release Voltage最小释放电压(VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	11
Max. Voltage 最大电压	6.5	7.8	11.7	15.6	23.4	31.2	62.4	143

Rated Voltage 额定电压 (VDC)	5	6	9	12	18	24	48	1.2W
Coil Resistance线圈阻值($\Omega \pm 10\%$)	20.8	30	67.5	120	270	480	1920	
Max Operate Voltage 最大吸合电压(VDC)	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage最小释放电压(VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	
Max. Voltage 最大电压	6.5	7.8	11.7	15.6	23.4	31.2	62.4	

Rated Voltage 额定电压 (VDC)	5	6	9	12	15	18	24	36	48	2.25W
Coil Resistance线圈阻值($\Omega \pm 10\%$)	11.1	16.0	36.0	64.0	100.0	144.0	256.0	576.0	1024.0	
Max Operate Voltage 最大吸合电压(VDC)	3.75	4.5	6.75	9	11.25	13.5	18.0	27.0	36.0	
Min Release Voltage最小释放电压(VDC)	0.25	0.3	0.45	0.6	0.75	0.9	1.2	1.8	2.4	
Max. Voltage 最大电压	5.5	6.6	9.9	13.2	16.5	19.8	26.4	39.6	52.8	

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

备注：最大电压是指继电器线圈在短时间内能够承受的最大电压值。

■ SAFETY APPROVED RATINGS 安全认证

Type(型号)	Coil Voltage (线圈电压)	Safety Approval (安全认证)	Contact Ratings (触点负载)
HJQ-15FW	5~110VDC	TÜV	申请中
		UL/cUL	申请中
		CQC	申请中

■ ORDERING INFORMATION 订货标记示例

	HJQ-15FW	D	-SV	-H	/12VDC	/XX
Type 型号	HJQ-15FW: 标准印制板引出脚					
Coil Power 线圈功率	N:2.25W D: 1.2W L: 0.9W					
Construction 封装方式	SV: Vent hole S: 塑封型					
	SV: 透气孔型 S: Plastic sealed					
Contact Arrangement 触点形式	H: 1 Form A Z: 1 Form C					
	H: 一组常开 Z: 一组转换					
Coil Voltage 线圈电压	05, 06, 09, 12, 15, 18, 24, 36, 48, 110VDC					
Special Code 特性号	XX: Customer Special Requirement, Nil: Standard Type, IT: Compliant with IEC 60335-1 (GWT) XX: 客户特殊要求, 无: 标准型, IT: 满足 IEC 60335-1 (GWT)					

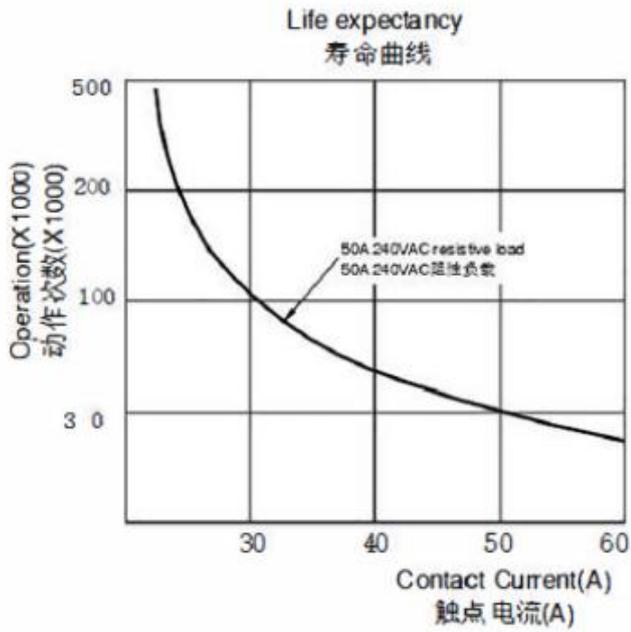
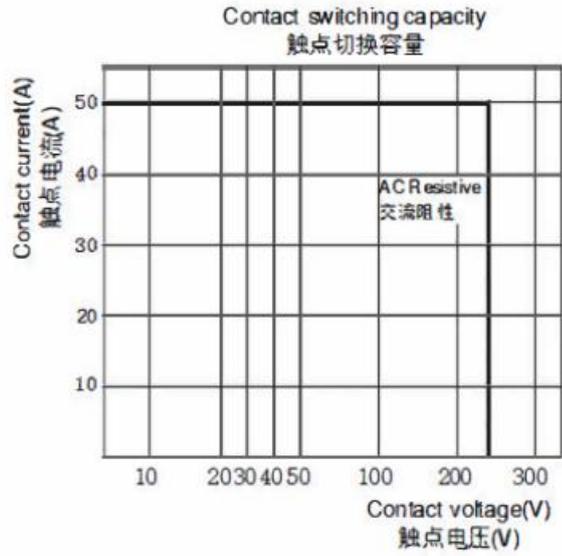
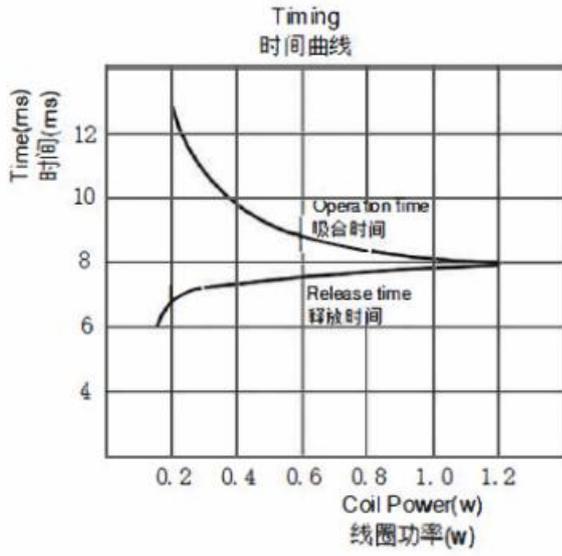
备注:

1) 2.25W 继电器触点间隙仅有 1.5mm 和 1.8mm 可选;

Remark:

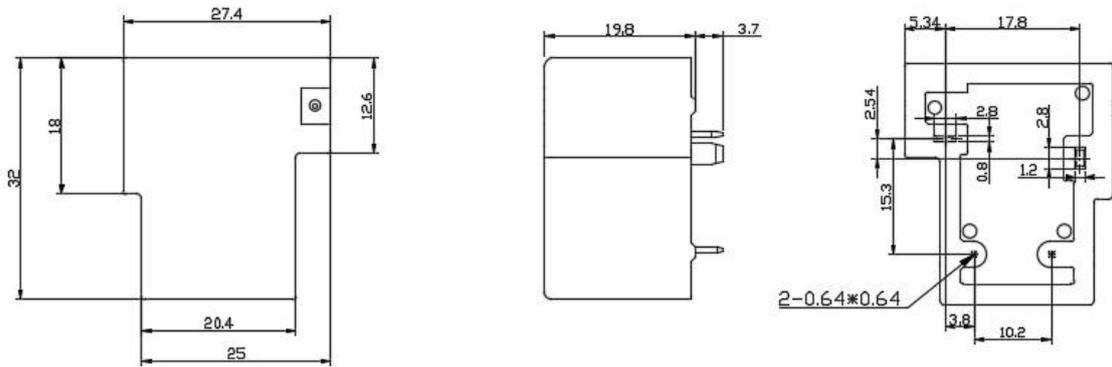
1) 2.25W relay contact clearance is only available in 1.5mm and 1.8mm.

■ CHARACTERISTIC CURVES 性能曲线图

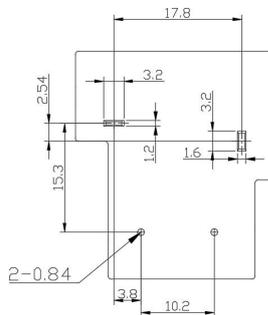


■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸

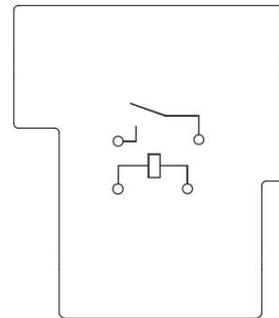
外形图
Outline Dimensions



安装孔尺寸图
PCB Layout



接线图
Wiring Diagram



备注:

- 1) 产品外形图的标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的 PCB 板孔的设计尺寸，具体 PCB 板孔设计尺寸可根据产品实物进行测绘、调整；
- 2) 产品部分外形尺寸中未注尺寸公差：当外形尺寸 $\leq 1\text{mm}$ 时，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。
- 3) 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 additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

声明:

本产品规格书仅供客户使用时参考，如有更改，恕不另行通知。

Disclaimer:

The specification is for reference only. Specification subject to change without notice.