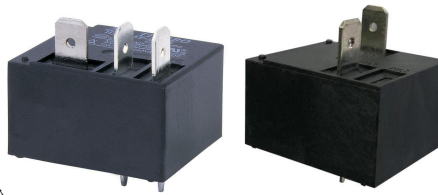


<b>POWER RELAY 功率继电器</b>	<b>HJQ-15F-2</b>
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- QC&PC terminals 快接与 PCB 引脚
- High power&low cost 大容量低成本
- 30A switching capability 30A 转换能力
- Less than 1W coil power 小于 1W 的线圈功耗
- Class B/F available 可提供 B 或 F 绝缘等级
- Conform to RoHS,ELV directive 符合 RoHS、ELV 指令



09002030497  
 US E173485  
 R50116174

**CONTACT DATA 触点参数**

Contact Arrangement 触点形式	1H/1D/1Z
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	1H: 25A(30A) 240VAC/20A 28VDC 1D: 15A 240VAC/10A 28VDC 1Z: 20A/10A 240VAC/28VDC
Min. Contact Load 最小负载	500mA 5VDC
Max. Switching Voltage 最大切换电压	250VAC/30VDC
Max. Switching Current 最大切换电流	30A
Max. Switching Power 最大切换功率	7200VA/560W
Contact Resistance 接触电阻	≤100mΩ (6VDC 1A)
Electrical Endurance 电耐久性	1×10 <sup>5</sup> OPS(at 6 OPS/min) 1×10 <sup>5</sup> 次(6次/分钟)
Mechanical Endurance 机械耐久性	1×10 <sup>7</sup> OPS(at 300 OPS/min) 1×10 <sup>7</sup> 次(300次/分钟)

**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	1500VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	1500VAC/T; 2500VAC (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%)	27.8	40	90	160	360	640	2560	13444	
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	

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。

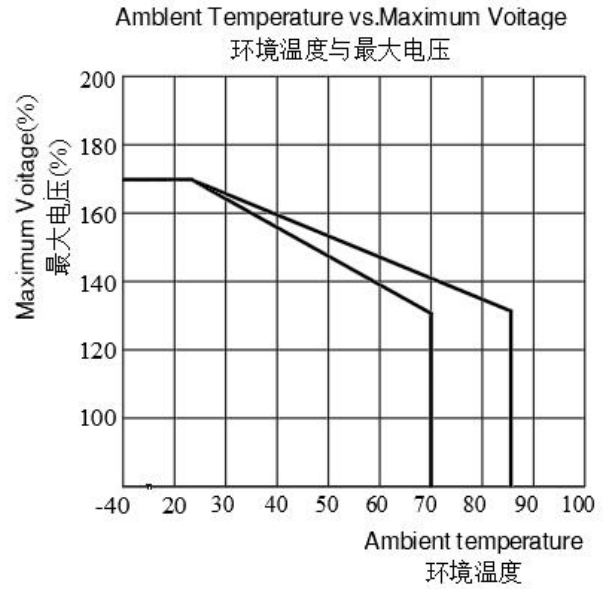
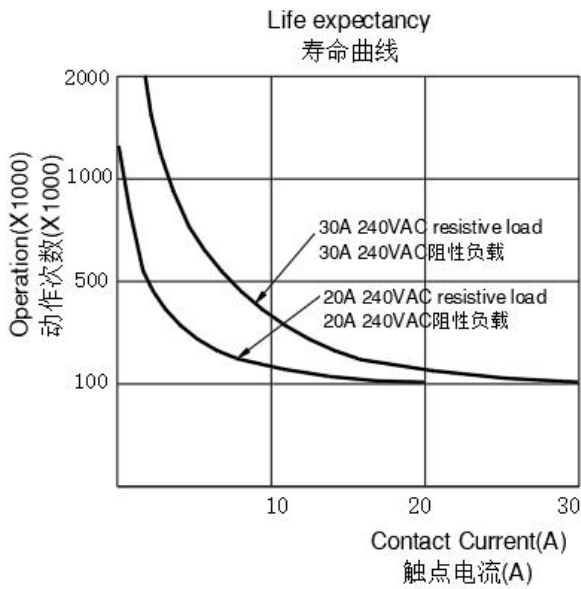
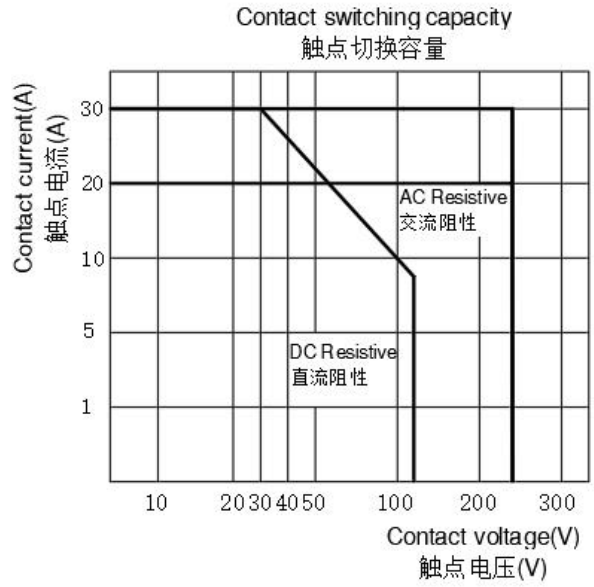
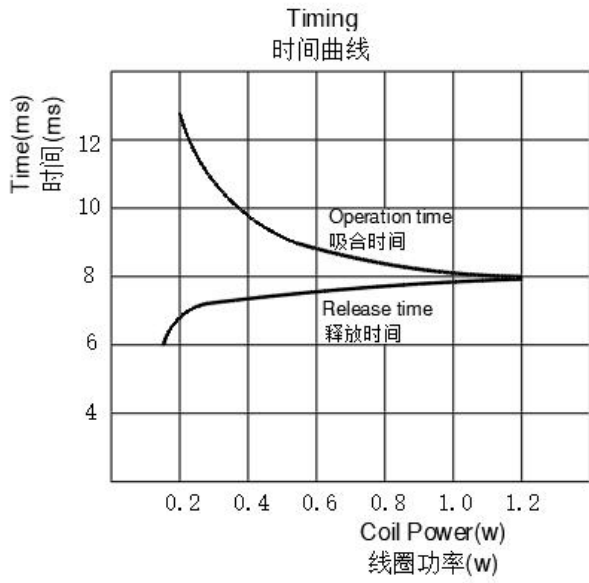
■ SAFETY APPROVED RATINGS 安全认证

Type(型号)	Coil Voltage (线圈电压)	Safety Approval (安全认证)	Contact Ratings (触点负载)	
HJQ-15F-2	3~110VDC	TÜV	H: 25A/30A 240VAC/ 277VAC 25A 28VDC	
			D: 15A 240VAC 10A 28VDC	
			Z(NO): 20A 240VAC /28VDC Z(NC): 10A 240VAC/ 28VDC	
	5~48VDC	UL/cUL	NO: 25A 240VAC/28VDC NC: 15A 240VAC/ 28VDC	
			NO: 30A 240VAC / 277VAC NC: 20A 240VAC	
			NO: TV-5(5A 120VAC)	
			NO: 1HP 125VAC 2HP 230VAC/240VAC/250VAC/277VAC NC: 1/4HP 125VAC 1/2HP 277VAC	
			CQC	NC: 20A 240VAC NO: 30A 240VAC/ 277VAC

■ ORDERING INFORMATION 订货标记示例

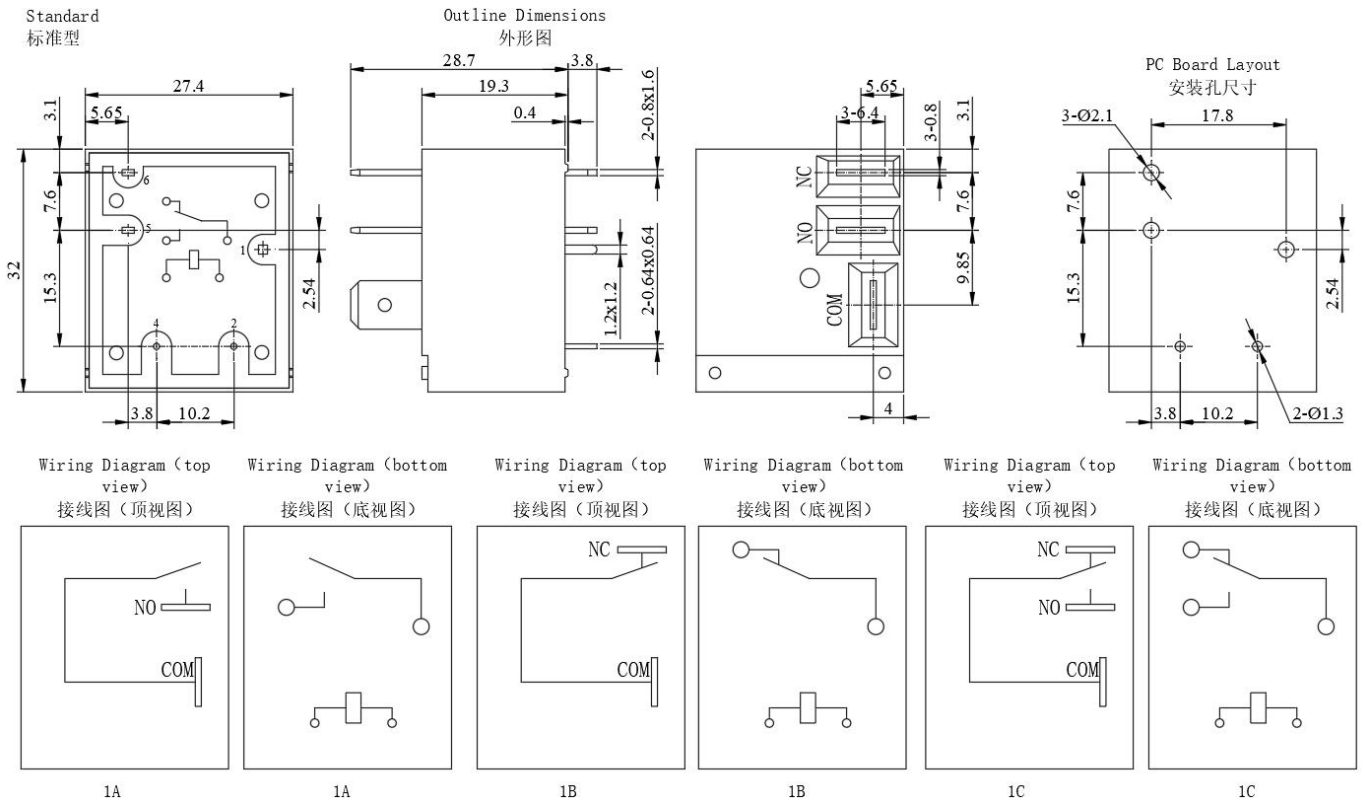
	<b>HJQ-15F-2</b>	<b>-S</b>	<b>-H</b>	<b>/T</b>	<b>/12VDC</b>	<b>/XX</b>
<b>Type</b> 型号						
<b>Construction</b> 封装方式	S:Plastic sealed or flux proofed S:塑封型或防焊剂型					
<b>Contact Arrangement</b> 触点形式	H: 1 Form A, Z: 1 Form C, D: 1 Form B H: 一组常开, Z: 一组转换, D: 一组常闭					
<b>Version</b> 结构形式	Nil:Standard Type (无: 标准型) 1500VAC, T:2500VAC TBF-1: CLASS F(155°C)绝缘等级 F级(155°C)					
<b>Coil Voltage</b> 线圈电压	05, 06, 09, 12, 18, 24,48,110VDC					
<b>Special Code</b> 特性号	XX: Customer Special Requirement, IT: Compliant with IEC 60335-1 (GWT), Ex nC IIC Gc: Explosion-Proof, T:Standard copper terminal, D: subtend iron terminal, DT: subtend copper terminal XX: 客户特殊要求, 无: 标准型, IT: 满足 IEC 60335-1 (GWT), Ex nC IIC Gc: 防爆, T:标准铜脚, D:对向铁脚, DT: 对向铜脚					

■ CHARACTERISTIC CURVES 性能曲线图

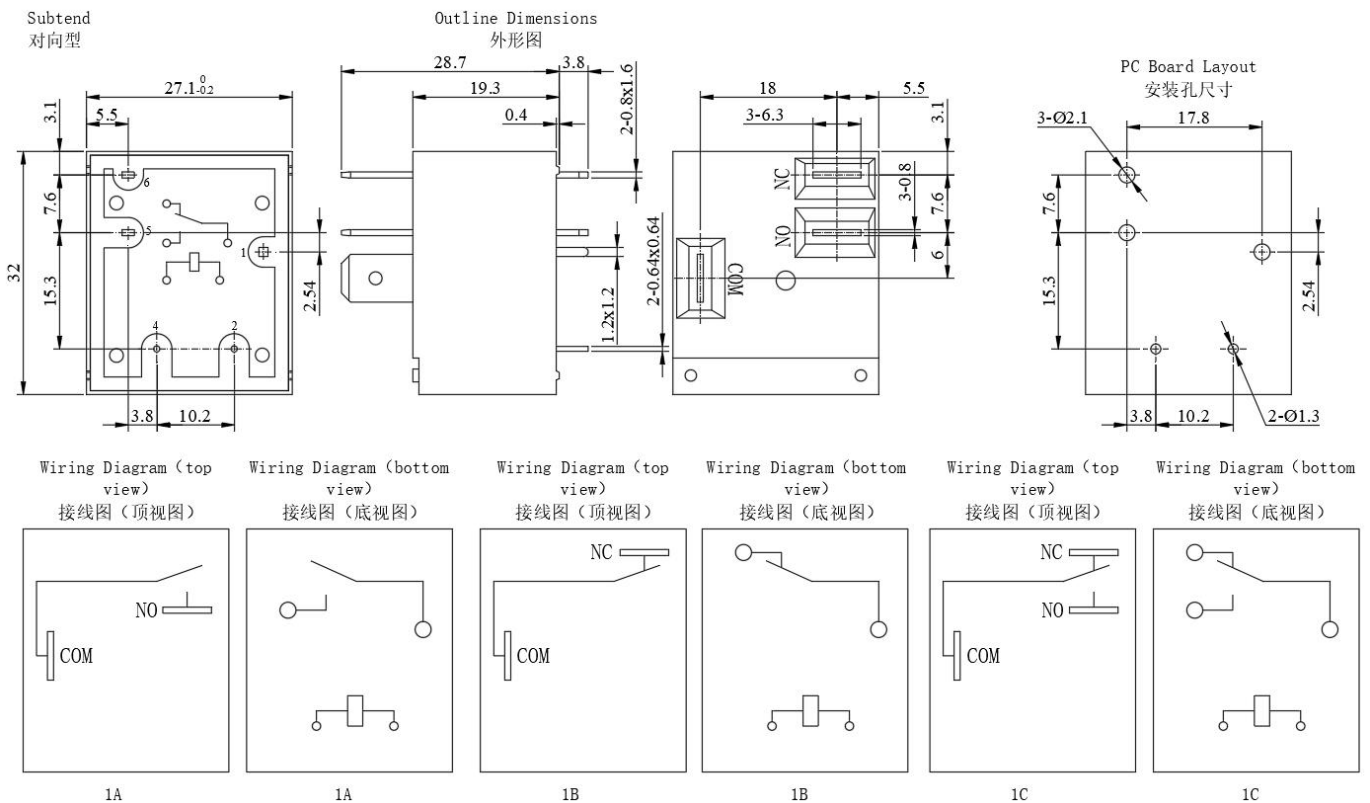


# OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸

Standard  
标准型



Subtend  
对向型



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.

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