

POWER RELAY 功率继电器

HJQ-22F

- 2 Form C and 3 Form C Contact Arrangement
两组转换型与三组转换型触点
- RoHS Compliant 符合 RoHS 标准



 **E173485**

 **13002087257**

CONTACT DATA 触点参数

Contact Arrangement 触点形式	2Z/3Z
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载 ($\cos \Phi = 1$)
Contact Ratings 触点负载	5A / 7A 240VAC 5A 28VDC / 7A 30VDC
Min. Contact Load 最小负载	100mA 5VDC
Max. Switching Voltage 最大切换电压	240VAC/30VDC
Max. Switching Current 最大切换电流	7A
Max. Switching Power 最大切换功率	1680VA/210W
Contact Resistance 接触电阻	$\leq 100\text{m}\Omega$ (6VDC 1A)
Electrical Endurance 电耐久性	1×10^5 OPS(at 6 OPS/min) 1×10^5 次(6次/分钟)
Mechanical Endurance 机械耐久性	1×10^7 OPS(at 300 OPS/min) 1×10^7 次(300次/分钟)

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻		100M Ω Min. at 500VDC
Dielectric Strength 介质耐压	Between Open Contacts 触点间	1000VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	1500VAC (50/60Hz 1 min)
Operate Time 动作时间		≤25ms
Release Time 释放时间		≤25ms
Ambient Temperature 环境温度		-40℃ ~ +70℃
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		20~85%
Unit Weight 重量		Approx. 35g 约35克

COIL DATA 线圈参数 (at 23°C)

Rated Voltage 额定电压 (VDC)	5	6	12	24	48	110/120	220/240	0.9W
Coil Resistance 线圈电阻 (Ω)	28	40	160	640	2560	11000		
Rated Current 额定电流 (mA)	178.5	150	75	37.5	18.75	10		
Max. Operate Voltage 最大动作电压 (VDC)	3.75	4.5	9	18	36	82.5		
Min. Release Voltage 最小释放电压 (VDC)	0.5	0.6	1.2	2.4	4.8	11		
Max. Voltage 最大电压 (VDC)	5.5	6.6	9.9	26.4	52.8	132		

Rated Voltage 额定电压 (VDC)		6	12	24	48	110/120	220/240	1.2VA
Coil Resistance 线圈电阻 (Ω)		11.5	46	180	735	4550	14400	
Max. Operate Voltage 最大动作电压 (VDC)		4.8	9.6	19.2	38.4	96	176	
Min. Release Voltage 最小释放电压 (VDC)		1.2	2.4	4.8	9.6	22	44	
Max. Voltage 最大电压 (VAC)		6.6	13.2	26.4	52.8	132	264	

Remark:

1. The tolerance of coil resistance for 5-24VDC/6-48VAC is $\pm 10\%$, 48-110VDC/110-240VAC is $\pm 15\%$;
2. Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time;

备注:

1. 5-24VDC/6-48VAC 线圈阻值公差为 $\pm 10\%$, 48-110VDC/110-240VAC 线圈阻值公差为 $\pm 15\%$;
2. 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。

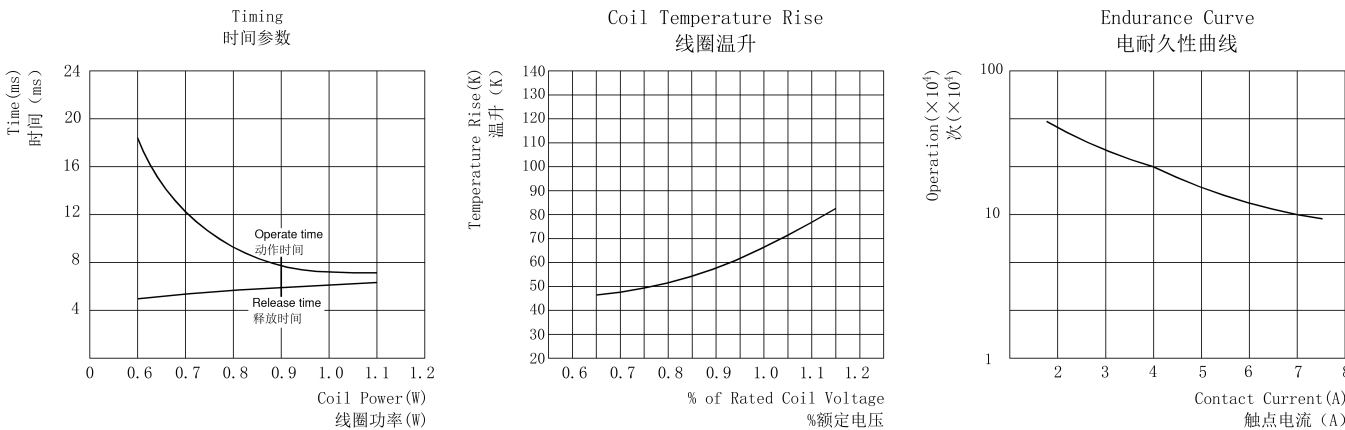
■ SAFETY APPROVED RATINGS 安全认证

Type(型号)	Coil Voltage (线圈电压)	Safety Approval (安全认证)	Contact Ratings (触点负载)
HJQ-22F	12 ~ 110VDC	UL/cUL	7A 240VAC 7A 30VDC
	24 ~ 240VAC		
	24 ~ 240VAC		
	12 ~ 110VDC	CQC	5A 240VAC 5A 28VDC
	120 ~ 240VAC		

■ ORDERING INFORMATION 订货标记示例

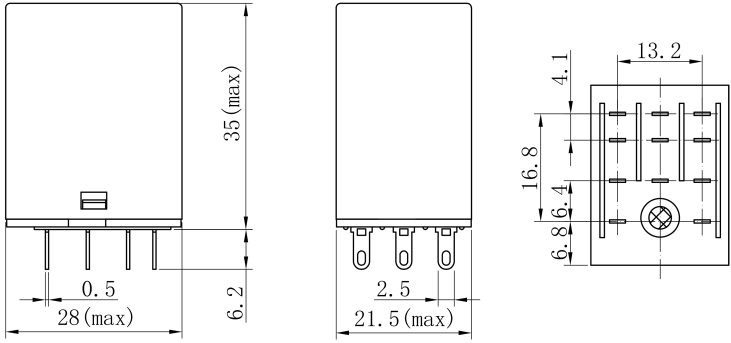
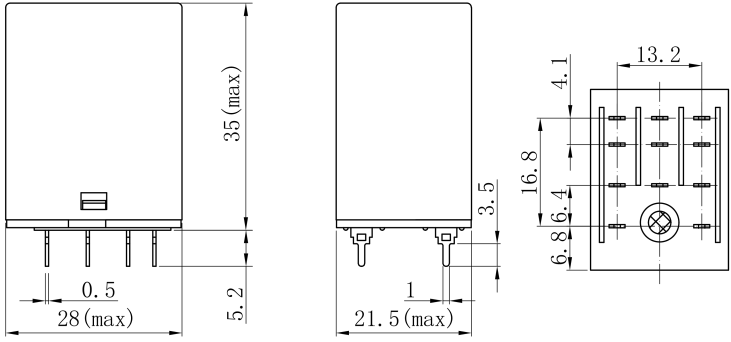
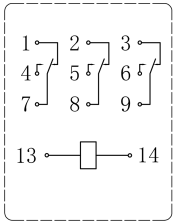
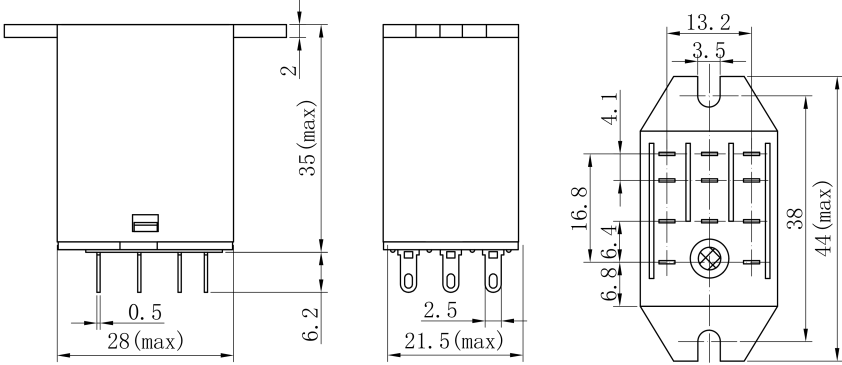
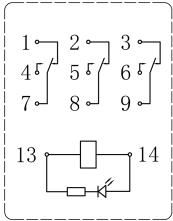
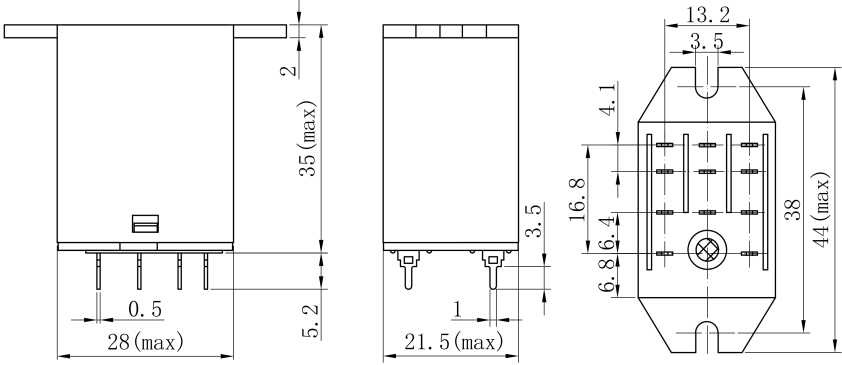
	HJQ-22F	-2Z	(P)	-F	-D	/12VDC	/XX
Type 型号							
Contact Arrangement 触点形式	2Z: 2 Form C 2Z: 两组转换	3Z: 3 Form C 3Z: 三组转换					
Terminal 引出脚形式	P: PCB Type P: PCB 型	Nil: Standard Type Nil: 标准型					
Version 结构形式	F: Flange-Mounting Type F: 法兰盘安装型	Nil: Standard Type Nil: 标准型					
LED 发光二极管	D: With LED D: 带 LED	Nil: Without LED Nil: 不带 LED					
Coil Voltage 线圈电压	5, 6, 12, 24, 48, 110, 120VDC 6, 12, 24, 48, 110, 220/240VAC						
Special Code 特性号	XX: Customer Special Requirement XX: 客户特殊要求	Nil: Standard Type 无: 标准型					

■ 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

Type 型号	Outline Dimensions 外形图	Wiring Diagram 接线图 (Bottom View 底部视图)
HJQ-22F-2Z		
HJQ-22F-2Z(P)		2 Form C 两组转换
HJQ-22F-2Z-F		2 Form C (With LED) 两组转换(带发光二极管)
HJQ-22F-2Z(P)-F		

HJQ-22F-3Z	 Technical drawings of HJQ-22F-3Z component showing front, side, and top views with dimensions.	
HJQ-22F-3Z(P)	 Technical drawings of HJQ-22F-3Z(P) component showing front, side, and top views with dimensions.	3 Form C 三组转换 
HJQ-22F-3Z-F	 Technical drawings of HJQ-22F-3Z-F component showing front, side, and top views with dimensions.	3 Form C (With LED) 三组转换(带发光二极管) 
HJQ-22F-3Z(P)-F	 Technical drawings of HJQ-22F-3Z(P)-F component showing front, side, and top views with dimensions.	

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.
