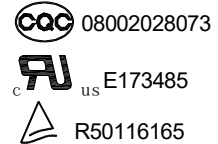
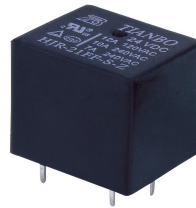




PCB 继电器	HJR-21FF
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- 12A switching capability
- SPST-NO configuration
- Small footprint
- Sealed version available
- Class B/F available
- Conform to RoHS,ELV directive



ORDERING CODE 订购代码

HJR-21FF— S — H * (TBF-1) / 12VDC / xx						
1	2	3	4	5	6	7
1. Relay Model 继电器型号	2. S: Sealed 密封	3. 触点转换形式 H: Form A Z: Form C	4. 环境温度 F: TUV 105°C Nil: TUV 85°C	5. Insulated Level 绝缘等级 TBF-1: Class F 级 Nil: Standard Type 标准	6. Coil Nominal Voltage 线圈额定电压 3,5,6,9,12,18,24,48VDC	7. 特殊代号 IT: GWIT 灼热丝 750°C(at ≤2 s) Ex: 防爆 Nil: Standard Type标准

COIL DATA 线圈参数 (at 20°C)

Nominal Voltage 额定电压(VDC)	3	5	6	9	12	24	48	0.36W
Coil Resistance 线圈阻值(Ω ±10%)	25	69	100	225	400	1600	6400	
Rated Current 额定电流(mA)	120	71.4	60	40	30	15	7.5	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage 最小释放电压(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Coil Resistance 线圈阻值(Ω ±10%)	20	56	80	180	320	1280	5120	0.45W
Rated Current 额定电流(mA)	150	90	75	50	37.5	18.7	9	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage 最小释放电压(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Max Applicable Voltage 最大过载电压	70°C时额定电压的130%, 23°C时额定电压的170%							

CONTACT DATA 触点参数

Contact Form 触点形式	1H/1Z	
Contact Material 触点材料	Silver Alloy	
Load 负载	Resistive load(COS Φ=1)	
Contact Ratings 触点负载	1H: 12A 240VAC 15A 125VAC(TUV) 15A 120VAC , TV-5A@120VAC	1Z: 10A 240VAC 12A 120VAC , TV-5A@120VAC 15A 125VAC(TVU)
Minimum load 最小负载	10mA 5VDC	
Max Switching Voltage 最大转换电压	250VAC/30VDC	
Max Switching Current 最大转换电流	15A	
Max Switching Power 最大转换功率	2770VA/240W	
Contact Resistance 接触电阻	100m Ω Max at 6VDC 1A	
Life Expectancy 寿命	Electrical 电气寿命: 100,000 Operations(at30Operations/minute)	
	Mechanical 机械寿命: 10,000,000 Operations(at300Operations/minute)	

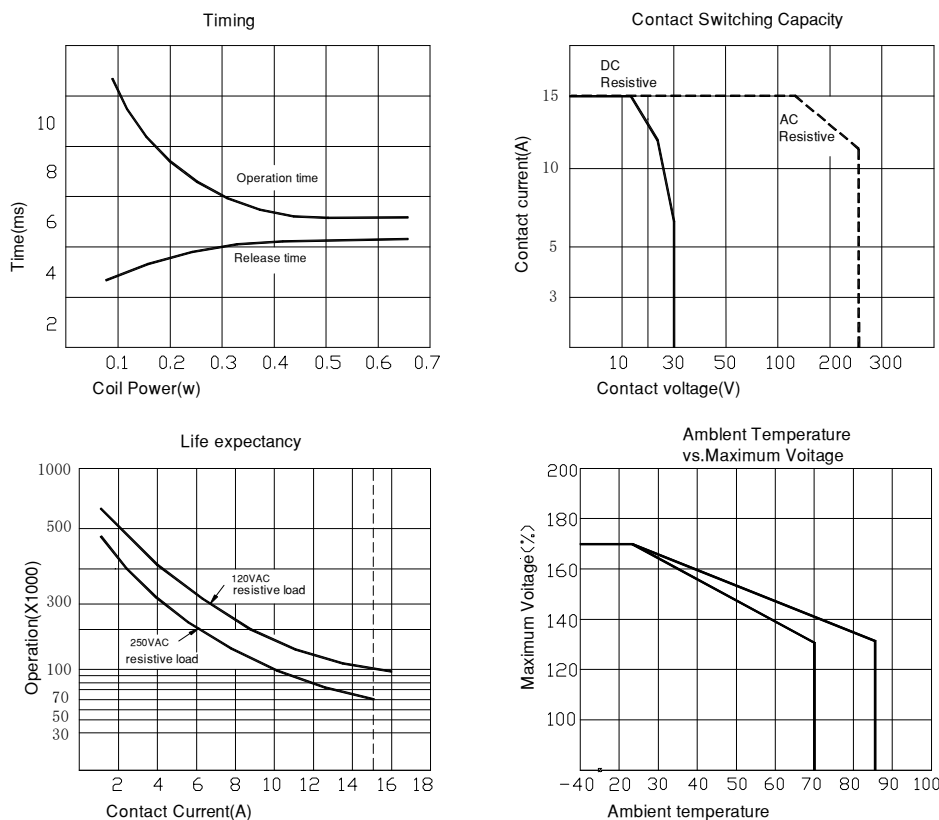
■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	100MΩ Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	750VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	1500VAC(for one minute)
Operate Time吸合时间	10ms
Release Time释放时间	5ms
Temperature Range环境温度	-40°C to +70°C, (F:UL 85°C, TUV 105°C)
Shock Resistance冲击	Operating Extremes动作极限: 10G
	Damage Limits破坏极限: 100G
Vibration Resistance振动	10-55Hz, 1.5mm
Max. switching frequency最大转换频率	Mechanical: 18,000operations/hr
	Electrical: 1,800operations/hr
Humidity湿度	40-85%
Weight重量	Approx 13g
Safety Standard安全标准	UL cUL TÜV CQC

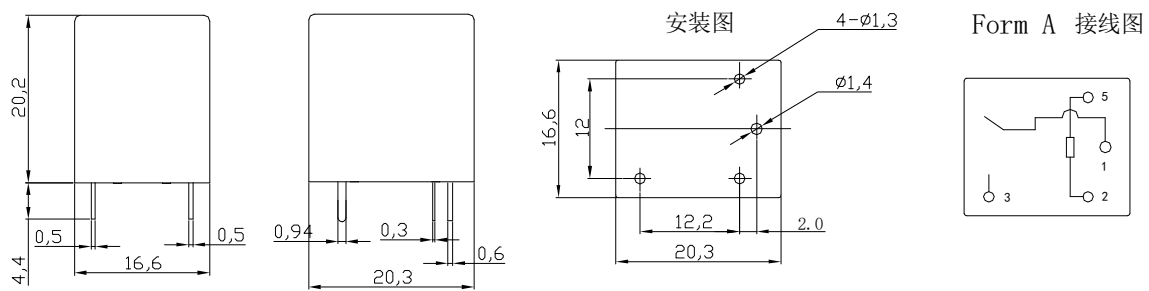
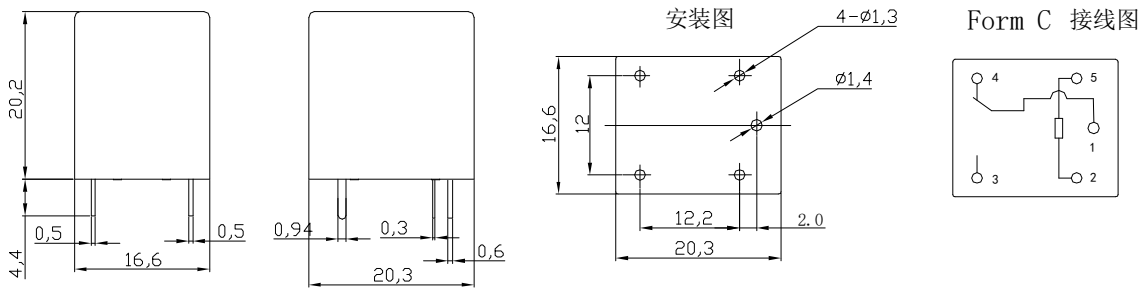
■ APPROVED STANDARDS 安全标准

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
HJR-21FF	3 to 48VDC	UL/cUL	H: 15A 120VAC 12A 240VAC TV-5A@ 120VAC
			Z,D: 12A 120VAC 10A 240VAC TV-5A@ 120VAC
		TÜV	H: 15A 125VAC 12A 240VAC
			Z: 15A 125VAC 10A 240VAC
		CQC	10A: 240VAC
			H: 12A 240VAC

■ ENGINEERING DATA 设计参数



■ OVERALL AND MOUNTING DIMENSIONS 安装图



- 备注: 1) 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 $\pm 0.4\text{mm}$ 。
- 2) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。