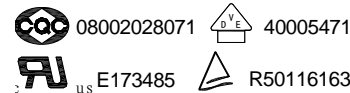


PCB 继电器

HJR-3FF

- 10A switching capability
- Small footprint
- Sealed type available
- Class B/F available
- Conform to RoHS,ELV directive



ORDERING CODE 订购代码

| | | | | | | |
|--|---|---|---|---------------------------|---|---------------------------------|
| HJR-3FF — S — H F (TBF-1) / 12VDC / IT | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. Relay Model 继电器型号 | | | | 4. Temperature Range 环境温度 | | 5. Insulated Level 绝缘等级 |
| 2. Sealed 密封 | | | | F: UL/TUV 105°C | | TBF-1: Class F 级 |
| 3. 触点转换形式 | | | | VDE 85°C | | Nil: 标准 |
| H: Form A | | | | Nil: UL/TUV 85°C | | 6. Coil Nominal Voltage 线圈额定电压 |
| Z: Form C | | | | VDE 70°C | | 3,5,6,9,12,18,24,48VDC |
| | | | | | | 7. IT:灼热丝, 750°C (at 2 minutes) |
| | | | | | | Nil: 标准 |

COIL DATA 线圈参数 (at 20°C)

| | | | | | | | | | |
|--|--------------------------------|------|-----|------|-----|------|------|------|-------|
| Nominal Voltage 额定电压(VDC) | 3 | 5 | 6 | 9 | 12 | 18 | 24 | 48 | 0.36W |
| Coil Resistance 线圈阻值 ($\Omega \pm 10\%$) | 25 | 69 | 100 | 225 | 400 | 900 | 1600 | 6400 | |
| Rated Current 额定电流(mA) | 120 | 71.4 | 60 | 40 | 30 | 20 | 15 | 7.5 | |
| Max Operate Voltage 最大吸合电压(VDC) | 2.25 | 3.75 | 4.5 | 6.75 | 9 | 13.5 | 18 | 36 | |
| Min Release Voltage 最小释放电压(VDC) | 0.15 | 0.25 | 0.3 | 0.45 | 0.6 | 0.9 | 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: 10A 240VAC 12A 120VAC 1Z: 7A 240VAC 10A 120VAC |
| Minimum load 最小负载 | 100mA 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(at3000Operations/minute) |

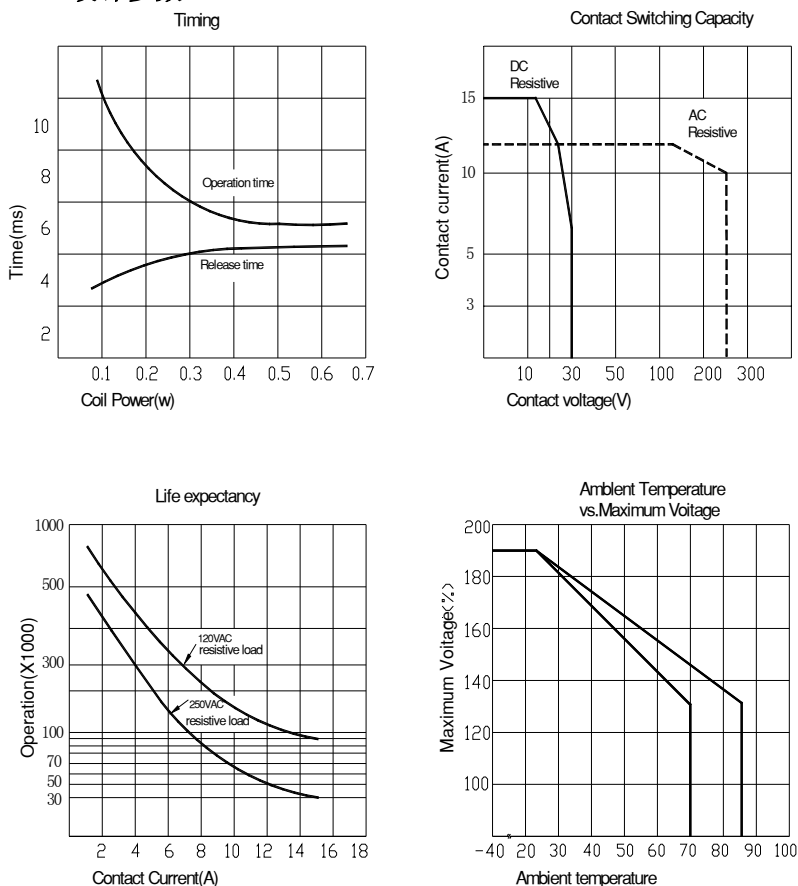
■ CHARACTERISTICS DATA 性能参数

| | |
|--|----------------------------------|
| Insulation Resistance绝缘阻值 | 100MΩ Min at 500VDC |
| Dielectric Strength Between Open Contacts触点间耐压 | 750VAC(50/60Hz for one minute) |
| Between Contacts and coil触点与线圈间耐压 | 1500VAC(50/60Hz 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 +85°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: 18,000 operations/hr |
| | Electrical: 1,800 operations/hr |
| Humidity湿度 | 40-85% |
| Weight重量 | Approx 10g |
| Safety Standard安全标准 | UL cUL TÜV CQC VDE |

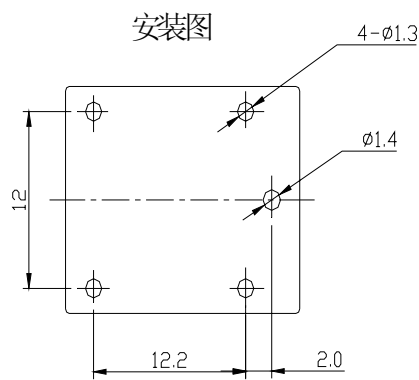
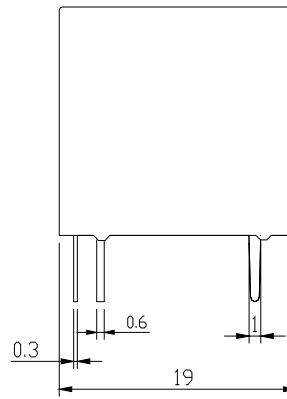
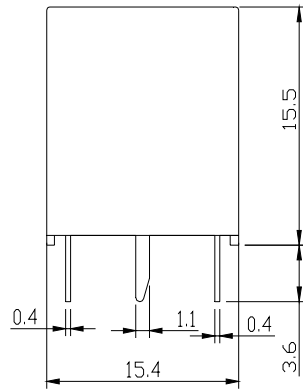
■ APPROVED STANDARDS 安全标准

| Model(型号) | Coiling rating (线圈电压) | Safety Standard (安全标准) | Contact rating (触点负载) |
|-----------|-----------------------|------------------------|----------------------------|
| HJR-3FF | 3 to 48VDC | TÜV | 1H: 15A 125VAC 10A 240VAC |
| | | | 1Z: 15A 125VAC 7A 240VAC |
| | | UL/cUL | 1H: 10A 240VAC 12A 120VAC |
| | | | 1Z: 7A 240VAC 10A 120VAC |
| | | | 1/8HP(FLA 3.8A) 125VAC |
| | | | 1/8HP(FLA 1.6A) 277VAC |
| | | VDE | 1H: 7A 250VAC/30VDC |
| | | | 1Z: 7A 250VAC/30VDC |
| | | | H F: 10A 250VAC; 10A 30VDC |
| | | | Z F: 10A 250VAC; 10A 30VDC |
| CQC | 7A 240VAC 10A 240VAC | | |

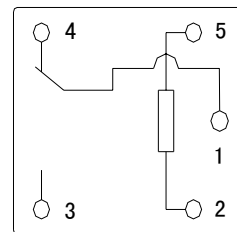
■ ENGINEERING DATA 设计参数



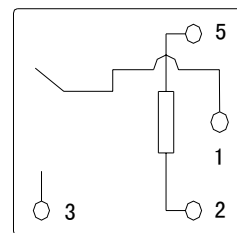
■ OVERALL AND MOUNTING DIMENSIONS 安装图



接线图



Form C



Form A

- 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 $\pm 0.1\text{mm}$ 。

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。