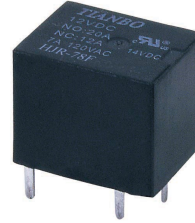


PCB 继电器

TRKM (HJR-78F)

- 20A switching capability
- Small size auto relay
- Conform to RoHS,ELV directive



 us E173485

ORDERING CODE 订购代码

| TRKM | D | S | Z | / 12VDC |
|----------------------|-----------------|---|--------------------------------|---------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. Relay Model 继电器型号 | TRKM or HJR-78F | | 4. 触点转换形式 | Z: Form C B: Form B |
| 2. Coil Power 线圈功率 | D=0.8W, L=0.6W | | 5. Coil Nominal Voltage 线圈额定电压 | H: Form A |
| 3. S: Sealed 密封 | 6,9,12,24VDC | | | |

COIL DATA 线圈参数 (at 20°C)

| Nominal Voltage 额定电压(VDC) | 6 | 9 | 12 | 24 | 0.6W |
|---|--------------------------------|------|------|------|------|
| Coil Resistance 线圈阻值($\Omega \pm 10\%$) | 60 | 135 | 240 | 960 | |
| Rated Current 额定电流(mA) | 100 | 66.7 | 50 | 25 | |
| Max Operate Voltage 最大吸合电压(VDC) | 3.9 | 5.85 | 7.8 | 15.6 | |
| Min Release Voltage 最小释放电压(VDC) | 0.48 | 0.72 | 0.96 | 1.92 | |
| Coil Resistance 线圈阻值($\Omega \pm 10\%$) | 45 | 100 | 180 | 720 | 0.8W |
| Rated Current 额定电流(mA) | 133.3 | 88.9 | 66.7 | 33.3 | |
| Max Operate Voltage 最大吸合电压(VDC) | 3.9 | 5.85 | 7.8 | 15.6 | |
| Min Release Voltage 最小释放电压(VDC) | 0.48 | 0.72 | 0.96 | 1.92 | |
| 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/1B |
| Contact Material 触点材料 | Silver Alloy |
| Load 负载 | Resistive load(COS Φ =1) |
| Contact Ratings 触点负载 | NO: 20A 14VDC NC: 12A 14VDC 1Z: 7A 120VAC |
| Minimum load 最小负载 | 100mA 5VDC |
| Max Switching Voltage 最大转换电压 | 250VAC/16VDC |
| Max Switching Current 最大转换电流 | 25A |
| Max Switching Power 最大转换功率 | 840VA/280W |
| 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) |

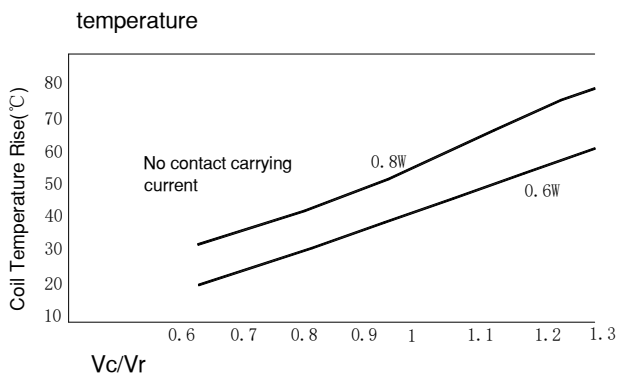
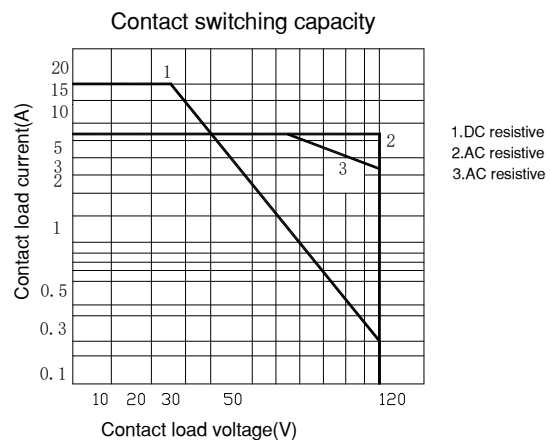
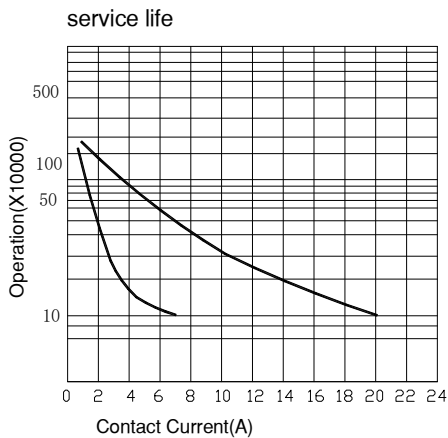
■ CHARACTERISTICS DATA 性能参数

| | |
|---|----------------------------------|
| Insulation Resistance 绝缘阻值 | 100MΩ Min at 500VDC |
| Dielectric Strength Between Open Contacts 触点间耐压 | 500VAC (for one minute) |
| Between Contacts and coil 触点与线圈间耐压 | 500VAC (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 | 35-85% |
| Weight 重量 | Approx 6g |
| Safety Standard 安全标准 | UL cUL |

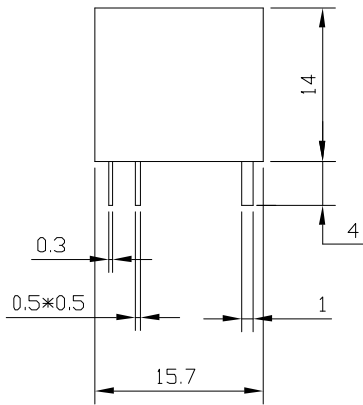
■ APPROVED STANDARDS 安全标准

| Model (型号) | Coiling rating (线圈电压) | Safety Standard (安全标准) | Contact rating (触点负载) |
|------------|-----------------------|------------------------|-----------------------------------|
| HJR-78F | 6 to 24VDC | UL/cUL | NO/NC: 20A/12A 14VDC 7A 120VAC |

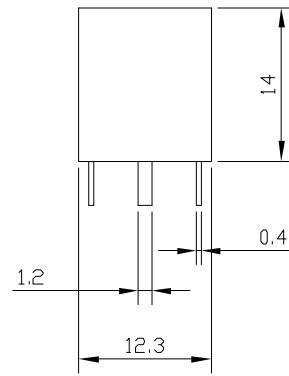
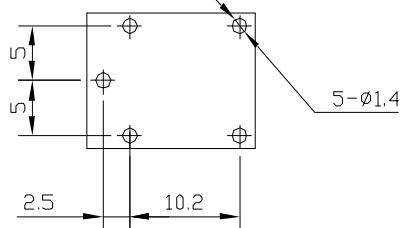
■ ENGINEERING DATA 设计参数



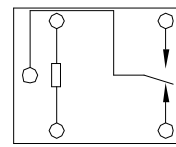
■ OVERALL AND MOUNTING DIMENSIONS 安装图



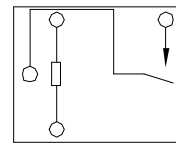
安装图



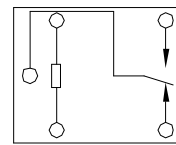
接线图



Form C



Form A



Form B

REMARK (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 $\pm 0.1\text{mm}$ 。