

# 通用继电器

## HJQ-15F

- High power&low cost
- 30A switching capability
- Less than 1W coil power
- Open sealed type available
- Class B/F available
- Conform to RoHS,ELV directive


 09002030497

 E173485

 R50116174

### ■ ORDERING CODE 订购代码

| HJQ-15F — S — Z (TBF-1) N / 12VDC                    |   |   |                                                                                                                     |   |   |
|------------------------------------------------------|---|---|---------------------------------------------------------------------------------------------------------------------|---|---|
| 1                                                    | 2 | 3 | 4                                                                                                                   | 5 | 6 |
| 1. Relay Model 继电器型号                                 |   |   |                                                                                                                     |   |   |
| 2. S: Sealed 密封<br>SV: Vent hoie<br>K: Open Type 敞开型 |   |   |                                                                                                                     |   |   |
| 3. 触点转换形式<br>H: Form A<br>Z: Form C<br>D: Form B     |   |   |                                                                                                                     |   |   |
|                                                      |   |   | 4. Insulated Level 绝缘等级<br>TBF-1: Class F级<br>Nil: 标准                                                               |   |   |
|                                                      |   |   | 5. N: 无3号引脚,触点与线圈间耐压1500VAC<br>Nil: 有3号引脚,触点与线圈间耐压1500VAC<br>WT: 有3号引脚,触点与线圈间耐压2500VAC<br>NT: 无3号引脚,触点与线圈间耐压2500VAC |   |   |
|                                                      |   |   | 6. Coil Nominal Voltage 线圈额定电压<br>5,6,9,12,18,24,48,110VDC                                                          |   |   |

### ■ COIL DATA 线圈参数 (at 20℃)

| Nominal Voltage额定电压(VDC)                 | 5                           | 6   | 9    | 12   | 18   | 24  | 48   | 110   | 0.93W |
|------------------------------------------|-----------------------------|-----|------|------|------|-----|------|-------|-------|
| Coil Resistance线圈阻值( $\Omega \pm 10\%$ ) | 27                          | 39  | 87   | 155  | 350  | 620 | 2480 | 13010 |       |
| Rated Current额定电流(mA)                    | 186                         | 155 | 103  | 77.5 | 52   | 39  | 19   | 9     |       |
| 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 Applicable Voltage 最大过载电压            | 70℃时额定电压的130%，23℃时额定电压的170% |     |      |      |      |     |      |       |       |

### ■ CONTACT DATA 触点参数

| Contact Form触点形式            | 1H/1D/1Z                                                                              |
|-----------------------------|---------------------------------------------------------------------------------------|
| Contact Material触点材料        | Silver Alloy                                                                          |
| Load 负载                     | Resistive load(COS $\Phi$ =1)                                                         |
| Contact Ratings触点负载         | 1H: 25A(30A) 240VAC/20A 28VDC<br>1D: 15A 240VAC/10A 28VDC<br>1Z: 20A/10A 240VAC/28VDC |
| Minimum load 最小负载           | 500mA 5VDC                                                                            |
| Max Switching Voltage最大转换电压 | 250VAC/30VDC                                                                          |
| Max Switching Current最大转换电流 | 30A                                                                                   |
| Max Switching Power 最大转换功率  | 7200VA/560W                                                                           |
| Contact Resistance接触电阻      | 100m $\Omega$ 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)                       |

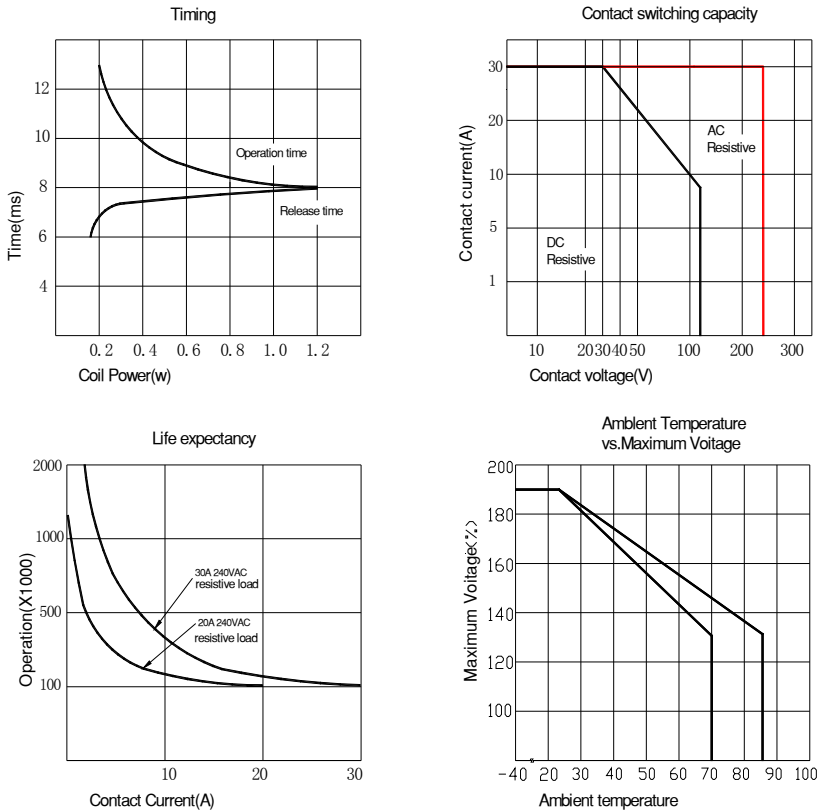
■ CHARACTERISTICS DATA 性能参数

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| Insulation Resistance绝缘阻值                      | 100M $\Omega$ Min at 500VDC     |
| Dielectric Strength Between Open Contacts触点间耐压 | 1500VAC(for one minute)         |
| Between Contacts and coil触点与线圈间耐压              | 1500VAC/2500VAC(for one minute) |
| Operate Time吸合时间                               | 15ms                            |
| Release Time释放时间                               | 10ms                            |
| Temperature Range环境温度                          | -40℃to+70℃ (Class F:85℃)        |
| 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 36g                      |
| Safety Standard安全标准                            | UL cUL CQC TÜV                  |

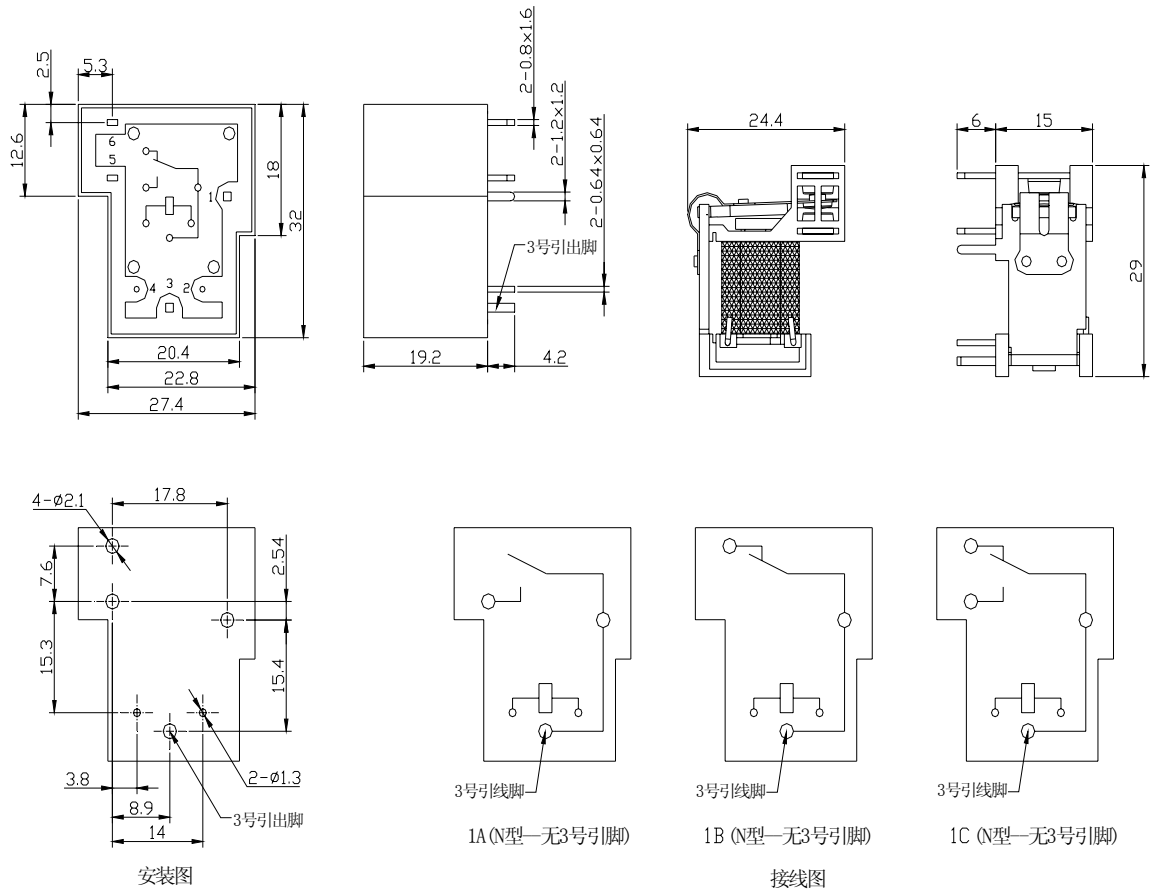
■ APPROVED STANDARDS 安全标准

| Model(型号) | Coiling rating (线圈电压) | Safety Standard (安全标准) | Contact rating (触点负载)                                            |
|-----------|-----------------------|------------------------|------------------------------------------------------------------|
| HJQ-15F   | 3 to 110VDC           | TÜV                    | H: 30A 240VAC<br>25A 28VDC                                       |
|           |                       |                        | D: 15A 240VAC<br>10A 28VDC                                       |
|           |                       |                        | Z(NO): 20A 240VAC /28VDC<br>Z(NC): 10A 240VAC/ 28VDC             |
|           |                       |                        | NO: 25A 240VAC/28VDC<br>NC: 15A 240VAC/ 28VDC                    |
|           | 5 to 48VDC            | UL/cUL                 | NO: 30A 240VAC<br>NC: 20A 240VAC                                 |
|           |                       |                        | NO: TV-5(5A 120VAC)                                              |
|           |                       |                        | NO: 1HP 125VAC<br>2HP 277VAC<br>NC: 1/4HP 125VAC<br>1/2HP 277VAC |
|           |                       | CQC                    | NC: 20A 240VAC<br>NO: 30A 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 $\pm 0.1\text{mm}$ 。

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。