



## CYF2

## 小型功率继电器

## Miniature Power Relay

TÜV  
CQC



### 特点Features

- 高负载能力：8安触点切换  
High load capacity : 8A switching capability
  - 体积小，适用于密集安装  
Small in size and suitable for intensive installation
  - 耐压可达5000伏  
Pressure resistance is up to 5000volts
- 安规认证Safety certificate  
TUV 认证号：R50277641

### 触点参数 Contact Data

|  |                         |
|--|-------------------------|
| 型号 Type                                  | CYF2                    |
| 触点材料<br>Contact material                 | 银合金 Silver alloy        |
| 接触电阻<br>Contact resistance               | 100mΩ Max.(at 1A 16VDC) |
| 额定负载 (阻性)<br>Rated load (Resistive load) | 5A 250VAC/8A 277VAC     |
| 最大切换电流<br>Max. switching current         | 8A                      |
| 最大切换电压<br>Max. switching voltage         | 277VAC                  |
| 最大切换功率<br>Max. switching power           | 2216VA                  |
| 最小切换负载<br>Min. switching load            | 6V 1A                   |

### 性能参数 Characteristics

|   |   |  |
|---|---|--|
| 吸合时间 (额定电压)<br>Operate time (at rated coil voltage) | 15ms Max. (不加二极管 No diode)                              |  |
| 释放时间<br>Release time                                | 5ms Max. (不加二极管 No diode)                               |  |
| 绝缘电阻<br>Insulation resistance                       | Min 1000MΩ (at 500VDC)                                  |  |
| 介质耐压<br>Dielectric strength                         | 触点与触点间  | Between open contacts:1000VAC, 50/60Hz for 1min            |
|   | 触点与线圈间  | Between coil and contact : 5000VAC , 50/60Hz for 1min      |
| 抗振动<br>Vibration resistance                         | 耐久Destructive   | 10-55Hz,双振幅1.5mm<br>10-55Hz ,at double amplitude of 1.5 mm |
|   | 误动作Functional   | 10-55Hz,双振幅1.5mm<br>10-55Hz ,at double amplitude of 1.5 mm |
| 抗冲击<br>Shock resistance                             | 误动作Functional   | 10G Min  |
|   | 耐久Destructive   | 10G Min  |
| 寿命<br>Endurance                                     | 机械寿命 (每小时10800次, 室温) Mechanical endurance (10800ops./h) | 10000000次<br>10000000 ops.(at room temperature)            |
|   | 电气寿命 (每小时360次, 室温) Electrical endurance (360ops./h)     | 100000次<br>100000 ops.(at room temperature)                |
| 环境温度Ambient atemperature                            | -40°C ~ +85°C(不冷凝 no condensation)                      |  |
| 重量Weight  | 约14g Approx.14g   |  |

## 线圈参数 Coil Data (at 20°C)

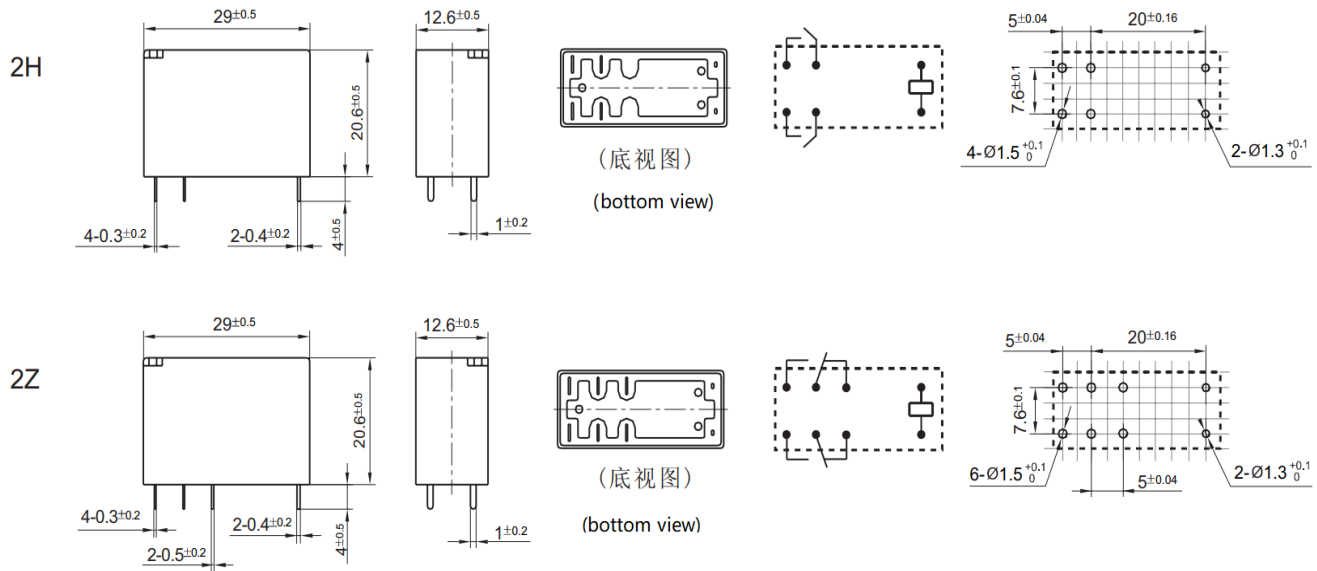
| 额定电压<br>(VDC)<br>Nominal<br>voltage<br>(VDC) | 额定电流<br>±10%(mA)<br>Nominal<br>operating<br>current<br>±10%(mA) | 线圈电阻<br>±10%(Ω)<br>Coil resistance<br>±10%(Ω) | 额定功率<br>Nominal operating<br>power | 吸合电压(Max.)<br>Operate voltage<br>(Max.) | 释放电压 (Min.)<br>Release voltage<br>(Min.) | 最大连续外加电压<br>Max. allowable voltage   |
|--|---|---|------------------------------------|---|--|--------------------------------------|
| 3  | 240   | 12.5  | 约0.72W<br>Approx 0.72W             | 额定电压的75%<br>75% of nominal<br>voltage   | 额定电压的5%<br>5% of nominal<br>voltage      | 额定电压的130%<br>130% of nominal voltage |
| 5  | 144   | 35  |                                    |   |  |                                      |
| 6  | 120   | 50  |                                    |   |  |                                      |
| 9  | 80  | 113   |                                    |   |  |                                      |
| 12   | 60  | 200   |                                    |   |  |                                      |
| 18   | 40  | 450   |                                    |   |  |                                      |
| 24   | 30  | 800   |                                    |   |  |                                      |
| 48   | 15  | 3200  | 约0.54W<br>Approx 0.54W             |   |  |                                      |
| 3  | 180   | 17  |                                    |   |  |                                      |
| 5  | 108   | 46  |                                    |   |  |                                      |
| 6  | 90  | 67  |                                    |   |  |                                      |
| 9  | 60  | 150   |                                    |   |  |                                      |
| 12   | 45  | 270   |                                    |   |  |                                      |
| 18   | 30  | 600   |                                    |   |  |                                      |
| 24   | 22.5  | 1067  |                                    |   |  |                                      |
| 48   | 11.25   | 4267  |                                    |   |  |                                      |

上述值为初始值，请勿在产品上连续施加最大电压>10min，以免线圈过度发热。

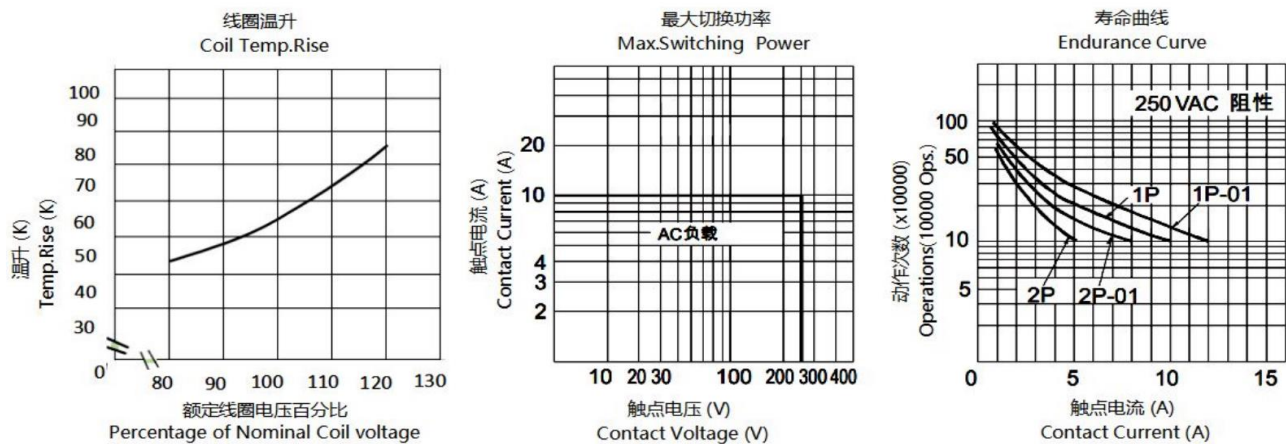
The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

## 外形尺寸图、接线图、安装孔位图 (单位: mm)

### Outline dimension, Wiring diagram, PCB layout (Unit:mm)



## 性能曲线图 Characteristic Curves



## 典型用途 Typical Applications

通讯设备 Telecommunication equipment

安全设备 Safety equipment

办公室设备 Office equipment

家用电器: 空调, 微波炉等 Home appliances: air conditioner, microwave oven, etc.

## 订货标记 Ordering Information

CYF2 H - 1 - C - 12VDC - H - D - T - XX  
 1 2 3 4 5 6 7 8 9

- 1: 型号Type: CYF2
- 2: H是is 8A 无 Nil -5A
- 3: 触点组数Number of Poles: 1-1Pole
- 4: 触点形式Contact Arrangement: C Fom C ; H From A ; B From B
- 5: 额定电压Nominal Voltage: 3,5,6,9,12,18,24,48VDC
- 6: 外壳颜色Enclosure Color: T -透明Transparent,;H-黑色Black; L-兰色Blue
- 7: 线圈功耗Coil Pwor: D-0.72W L-0.54W
- 8: 封装形式Protective Construction: S-塑封式Flux proofed,  
SH-防水式 Sealed type washable
- 9: 特殊参数Special Parameter:无-标准型 Nil-Standard type  
字母或数字-特殊要求Letter or number-Special requirement

(1):塑封式不能在污染环境 (含有H2S , SO2 , NO2 , 粉尘等污染特) 中使用。

Flux-proof relays can not be used in the environment with pollutants like H2S , SO2 , NO2 , dust,etc.

(2): 塑封式装入PCB焊接后, 不能进行整体清.洗或表面处理。

Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.

声明: 本产品规格书仅供客户使用时参考, 若有更改, 恕不另行通知。

对盛元而言, 不可能评定继电器在每个具体应用领域的所有性能参数要求, 因而客户应该根据具体的使用条件选择与之相匹配的产品。对于密封继电器在安装清洗后, 使用前请打开外壳上的透气孔。若有疑问, 请与盛元联系获得更多的技术支持。但产品选型责任仅由客户负责。

Disclaimer: The specification is for reference only . Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications . Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation fand cleaning, please open the ventilation hole in the case before use . If there is any query , please contact Chengyuan for technical services. However it is the user's responsibility to determine which product should be used.