

Industrial General-Purpose Relay (AP)  
通用功率继电器(AP)



Features 产品特点

- > PCB Terminal  
印刷电路板接线端子
- >Standard capacity 5A relay  
标准容量 5A继电器
- >2 pole NO/NC (normally open/normally closed)  
2 极 NO/NC ( 常开/常闭 )
- >8mm creepage distance, 5000V withstand voltage between coil contacts  
8mm爬电距离 ,线圈触点之间耐电压5000V
- >Safety design of 10000V withstand impulse voltage between coil contacts  
线圈触点之间耐冲击电压10000V的安全设计
- >Low power consumption 0.5W  
低功耗0.5W
- >Environmental protection compliant with RoHS and REACH  
环保产品,符合RoHS和REACH

Model code description 型号編碼说明

|                                                   |    |    |      |
|---------------------------------------------------|----|----|------|
|                                                   | AP | 2C | D024 |
| Model 型号                                          |    |    |      |
| Contact form 触点形式                                 |    |    |      |
| 2C:DPDT                                           |    |    |      |
| Coil voltage 线圈电压                                 |    |    |      |
| 5VDC、6VDC、12VDC、 <b>24VDC</b> 、36VDC、48VDC、110VDC |    |    |      |

Product performance 产品性能

|                                                       |                                               |                                                             |
|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|
| Contact form<br>触点                                    | Model 型式                                      | 2C                                                          |
|                                                       | Load<br>负载                                    | Resistive 阻性                                                |
|                                                       |                                               | 5A@30VDC;5A@250VAC                                          |
|                                                       |                                               | Sensation 感性                                                |
|                                                       |                                               | 3A,30VDC,L/R=7ms      2A,250V,cosΦ=0.4                      |
|                                                       | Switching power 切换功率                          | 150W,1250VA                                                 |
|                                                       | Maximum switching current<br>最大切换电流           | 5A                                                          |
|                                                       | Contact resistance (initial)<br>接触电阻 ( 初始 )   | ≤50mΩ                                                       |
|                                                       | Contact material 接点材料                         | AgNi ( Silver nickel alloy 银镍合金 )                           |
|                                                       | Electrical life 电气寿命                          | 10,000 ops                                                  |
|                                                       | Mechanical life 机械寿命                          | 3000,0000 ops                                               |
| Closling voltage 吸合电压 ( 23℃ )                         |                                               | DC:≤70% ( Rated voltage 额定电压 )                              |
| Release voltage 释放电压 ( 23℃ )                          |                                               | DC:≥15% ( Rated voltage 额定电压 )                              |
| Maximum voltage 最大电压 ( 23℃ )                          |                                               | 170% ( Rated voltage 额定电压 )                                 |
| 绝缘电阻 Insulation resistance                            |                                               | 1000MΩ @500VDC                                              |
| Coil power<br>线圈功率                                    | DC(W)                                         | 0.53W                                                       |
| Closling response time (rated voltage)<br>吸合时间(额定电压 ) |                                               | ≤15ms□                                                      |
| Release time (rated voltage)<br>释放时间(额定电压 )           |                                               | ≤5ms                                                        |
| Initial withstand<br>voltage<br>初始耐压                  | Between contacts of the<br>same pole 同极触点之间   | 1000VAC,1Min ( Leakage current 漏电流 1mA )                    |
|                                                       | Between contacts of different<br>poles 异极触点之间 | 3000VAC,1Min ( Leakage current 漏电流 1mA )                    |
|                                                       | Between coil and contact<br>线圈与触点间            | 5000VAC,1Min ( Leakage current 漏电流 1mA )                    |
| Environment temperature 环境温度                          |                                               | \$-40℃ ~ +70℃ (AC/DC) ( No icing, no condensation 无结冰、无结露 ) |

|                           |                                     |
|---------------------------|-------------------------------------|
| Environment humidity 环境湿度 | 5%RH ~ 85%RH                        |
| Atmospheric pressure 大气压力 | 86-106KPa                           |
| Shock stability 冲击稳定性     | 100m/s2                             |
| Impact strength 耐冲击强度     | 1000m/s2                            |
| Vibration resistant 耐振动   | 10Hz ~ 55Hz, Double amplitude 1.5mm |
| Mount method 安装方式         | PCB Type                            |
| Volume 体积                 | 29mm×12.7mm×25.5mm                  |
| Weight 重量                 | 约17g                                |

Coil specification table 线圈规格表
（ Environment temperature 环境温度+ 23℃ ）

| Rated voltage<br>额定电压 ( V ) |        | Operating Voltage<br>工作电压 ( V ) | Release voltage<br>释放电压 ( V ) | Maximum voltage<br>最大电压(V) | Coil resistance<br>线圈电阻(Ω)±10% |
|-----------------------------|--------|---------------------------------|-------------------------------|----------------------------|--------------------------------|
| DC                          | 5VDC   | ≤70%                            | ≥15%                          | 170%                       | 47                             |
|                             | 6VDC   |                                 |                               |                            | 68                             |
|                             | 12VDC  |                                 |                               |                            | 275                            |
|                             | 24VDC  |                                 |                               |                            | 1100                           |
|                             | 36VDC  |                                 |                               |                            | 2440                           |
|                             | 48VDC  |                                 |                               |                            | 4300                           |
|                             | 110VDC |                                 |                               |                            | 22860                          |

备注：最大电压是指继电器在短时间内能够承受的最大电压值。  
Note: The maximum voltage is the maximum that the relay can withstand in a short period of time.

Outline drawing size (mm) & circuit diagram 外形图尺寸 ( mm)&线路图

PCB Layout Dimension 印制电路板加工尺寸

(BOTTOM VIEW)  
尺寸公差为±0.1mm

Wiring diagrams 内部接线图

(无线圈极性)