

## 规格命名

P/N system

**EVD** 20 **C** 12 **Q** A

| 系列                          | EVD                 | Series                         |
|-----------------------------|---------------------|--------------------------------|
| 额定电流                        | 20                  | Current(continue)              |
| 主触点形式：                      | C                   | Main contacts feature:         |
| "C" = 一组常开，分极性              |                     | "C" = 1 form A (NO), polarized |
| 线圈额定电压：                     | 12                  | Coil nominal voltage:          |
| "12" = 12VDC ; "24" = 24VDC |                     | "12" = 12VDC, "24" = 24VDC     |
| 线圈引出方式：                     | Q                   | Coil lead out:                 |
| "Q" = 插片式                   |                     | "Q" = Insert                   |
| 安装方式：                       | A                   | Installation:                  |
| "A" = 底部安装                  |                     | "A" = Bottom mounting          |
| 订货编码：                       |                     | Order code:                    |
| EVD20C12QA                  | D.A5BDQC0-00A7-T000 | EVD20C12QA                     |
| EVD20C24QA                  | D.B5BDQC0-00A7-T000 | EVD20C24QA                     |

| 电气性能          |                                            |                                                        | Electrical Characteristics         |            |
|---------------|--------------------------------------------|--------------------------------------------------------|------------------------------------|------------|
| 触点构成          | 1 form A (NO)                              |                                                        | Contact form                       |            |
| 接触电阻          | ≤30mΩ(6VDC 20A)<br>(典型值 typical value 5mΩ) |                                                        | Contact resistance                 |            |
| 额定短时耐受电流及持续时间 | 40A 20min ; 80A 30s                        |                                                        | Current Endurance                  |            |
| 负载电压          | 12-750 VDC                                 |                                                        | Load voltage                       |            |
| 触点极性          | 有极性 polarized                              |                                                        | Polarity for main contacts         |            |
| 辅助触点          | 无 non                                      |                                                        | Auxiliary contacts                 |            |
| 绝缘电阻 (初始)     | 1000MΩ (1000V DC)                          |                                                        | Insulation(initial)                |            |
| 耐电压<br>(初始)   | 触点间<br>2000V AC 1min ( at 10mA )           | Main contacts                                          | Dielectric<br>voltage<br>(initial) | Durability |
|               | 触点与线圈间<br>3000V AC 1min ( at 10mA )        | Contacts and coil                                      |                                    |            |
| 寿命            | 机械寿命<br>2×10 <sup>5</sup> 次/cycles         | Mechanical durability                                  |                                    | Durability |
|               | 电气寿命<br>※1 , ※2 , ※3                       | Electrical durability<br>(resistive load) ※1 , ※2 , ※3 |                                    |            |

## 备注：

Note :

※1：负载类别 : DC-1

※1 : Load type : DC-1

※2：接通和断开转换频率 , ON : OFF=1 秒:9 秒 ;

※2 : ON : OFF=1 sec : 9sec ;

※3：使用环境温度的上限值 , 能满足线圈温度上升值的最高温度。

※3 : Limit of ambient temperature, can meet the maximum

以上值均为环境温度 20°C 下初始值 , 试验后不能满足耐压和绝缘电阻

temperature of coil temperature appreciation.

要求。

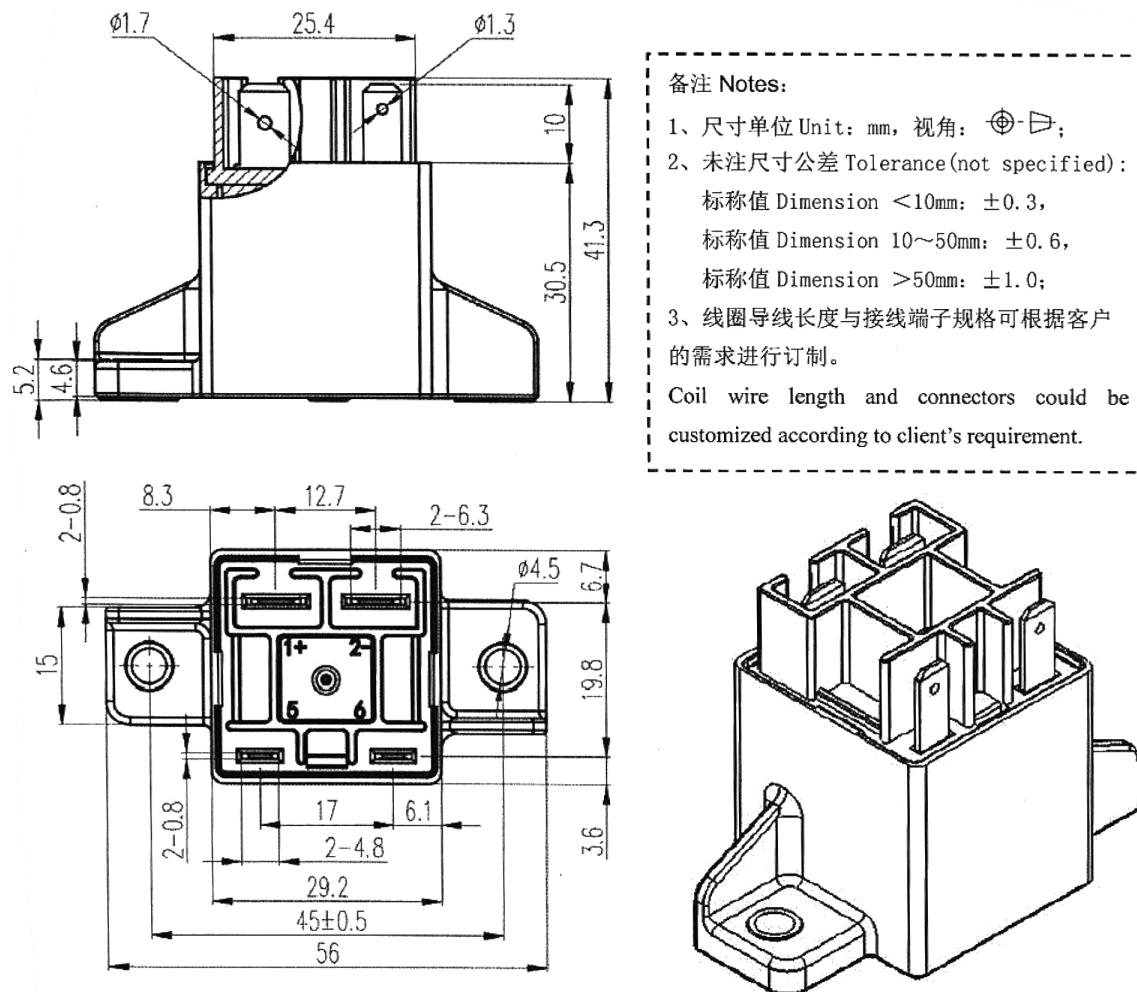
The above values are the initial values under the ambient

temperature of 20 °C , which can not meet the

requirements of withstand voltage and insulation  
resistance after the experiment.

| 线圈参数                    |                    | Coil data                                               |                                    |
|-------------------------|--------------------|---------------------------------------------------------|------------------------------------|
| 额定电压                    | 12V DC             | 24V DC                                                  | Nominal voltage                    |
| 吸合电压                    | 9Vdc Max.          | 18Vdc Max.                                              | Pick up voltage                    |
| 保持电压                    | 10.2Vdc Min.       | 20.4Vdc Min.                                            | Keep the voltage                   |
| 最大启动电流                  | 250mA              | 125mA                                                   | Maximum starting current           |
| 额定线圈电阻( $\pm 5\%$ )     | 48Ω                | 192Ω                                                    | ( $\pm 5\%$ )Rated coil resistance |
| 释放电压                    | 1Vdc Min.          | 2Vdc Min.                                               | Drop out voltage                   |
| 额定消耗功率(约)               | 约 3W               |                                                         | Coil power(Approx)                 |
| 线圈极性                    | 不分极性 non-polarized |                                                         | Polarity for coil                  |
| 备注：                     |                    |                                                         | Note :                             |
| (1) 以上值均为环境温度 20°C 下初始值 |                    | (1) The value of coil parameters are measured at +20°C. |                                    |
| (2) 如需其他额定电压，可特殊订货      |                    | (2) Other nominal voltage could be ordered specially.   |                                    |

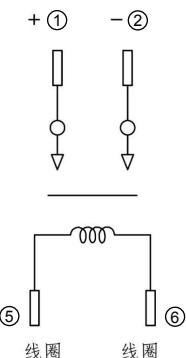
### 外形尺寸 Dimension



## 接线示意图

## Schematic

**C型**  
(负载分“+”“-”极)



(线圈无极性)

**C Type**

main contact is polarized for (+), (-). Coil is non-polarized.

## 扭矩范围

## Torque range

主触点连接铜导线公称横截面积

4mm<sup>2</sup> Min

Nominal section area of conductor

## 环境性能

## Environmental Characteristics

|           |                                                      |                   |
|-----------|------------------------------------------------------|-------------------|
| 冲击        | 20g peak , 11ms 1/2 sine<br>(线圈通电 coil energized)    | Shock             |
| 振动        | 4g peak , 10~500 Hz sine                             | Vibration         |
| 使用与贮存环境温度 | -40°C ~ +85°C                                        | Temperature range |
| 使用与贮存环境湿度 | 5% ~ 95%RH<br>(无结露、结冰 No condensation and freezing ) | Humidity range    |

## 动作时间

## Operate times

|              |                 |                         |
|--------------|-----------------|-------------------------|
| 动作/吸合(含弹跳)时间 | ≤30ms (at 20°C) | Operate(include bounce) |
| 复位/释放(含弹跳)时间 | ≤12ms (at 20°C) | Release(include bounce) |