| AUTOMOTIVE RELAY 汽车继电器 | TRV6 |
|---|---|

- 80A continuous rating at 85℃
  85℃下 80A 持续载流能力
- 1A,1B, 1C, 1U arrangements available
  1A,1B, 1C, 1U 可供选择
- QC or PC board terminals available
  QC 与 PCB 引出端可供选择
- Mounting bracket available
  安装架可供选择

## ■CONTACT DATA 触点参数

| | |
|---|---|
| Contact Arrangement 触点形式 | 1H/1D/1Z/1U |
| Contact Material 触点材料 | Silver Alloy 银合金 |
| Load 负载 | Resistive load 阻性负载 (cosΦ=1) |
| Contact Ratings 触点负载 | NO: 50A 14VDC<br>NC: 40A 14VDC |
| | NO: 80A 14VDC<br>NC: 60A 14VDC |
| Min. Contact Load 最小负载 | 0.5A 12VDC |
| Max. Switching Voltage 最大切换电压 | 75VDC |
| Max. Switching Current 最大切换电流 | 80A |
| Max. Switching Power 最大切换功率 | 1120W |
| Contact Resistance 接触电阻 | ≤100mΩ (6VDC 1A) |
| Electrical Endurance 电耐久性 | $1\times10^5$ OPS(at 6 OPS/min) $1\times10^5$ 次( 6次/分钟) |
| Mechanical Endurance 机械耐久性 | $1\times10^7$ OPS(at 300 OPS/min) $1\times10^7$ 次( 300次/分钟) |

## ■CHARACTERISTICS 性能参数

| | | |
|---|---|---|
| Insulation Resistance 绝缘电阻 | | 100MΩ Min. at 500VDC |
| Dielectric Strength 介质耐压 | Between Open Contacts 触点间 | 500VAC 1 min |
| | Between Contacts and Coil 触点与线圈间 | 500VAC 1 min |
| Operate Time 动作时间 | | ≤10ms |
| Release Time 释放时间 | | ≤10ms |
| Ambient Temperature 环境温度 | | -40℃~+85℃ |
| Shock Resistance 冲击 | | Functional 稳定性: 10G |
| | | Destructive 强度: 20G |
| Vibration Resistance 振动 | | 10~55Hz, 1.5mm DA 双振幅 |
| Humidity 湿度 | | 20~85% |
| Unit Weight 重量 | | Approx. 46g 约46克 |

## ■COIL DATA 线圈参数 (at 23°C)

| | | | | | |
|---|---|---|---|---|---|
| Rated Voltage 额定电压 (VDC) | 6 | 12 | 24 | 36 | 1.8W |
| Coil Resistance 线圈电阻 (Ω±10%) | 20 | 80 | 320 | 720 | |
| Rated Current 额定电流 (mA) | 300 | 150 | 75 | 50 | |
| Max. Operate Voltage 最大动作电压 (VDC) | 3.9 | 7.8 | 15.6 | 23.4 | |
| Min. Release Voltage 最小释放电压 (VDC) | 0.6 | 1.2 | 2.4 | 3.6 | |
| Max. Voltage 最大电压 | 9 | 18 | 36 | 54 | |

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

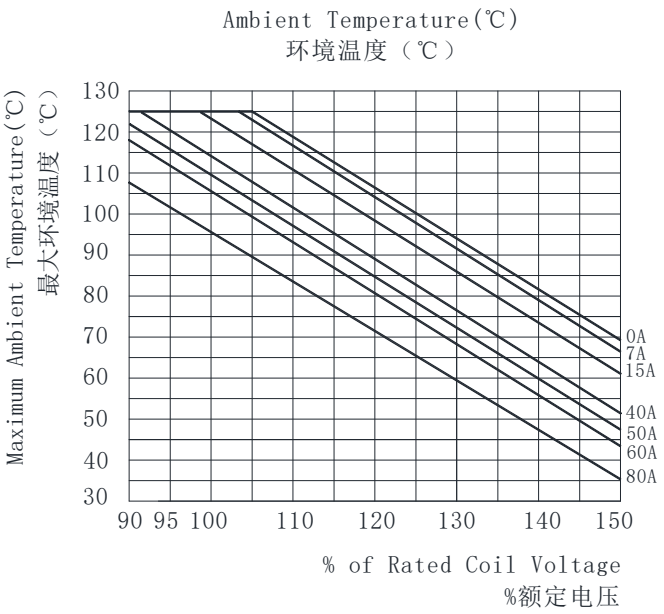
备注：最大电压是指继电器线圈在短时间内能够承受的最大电压值。

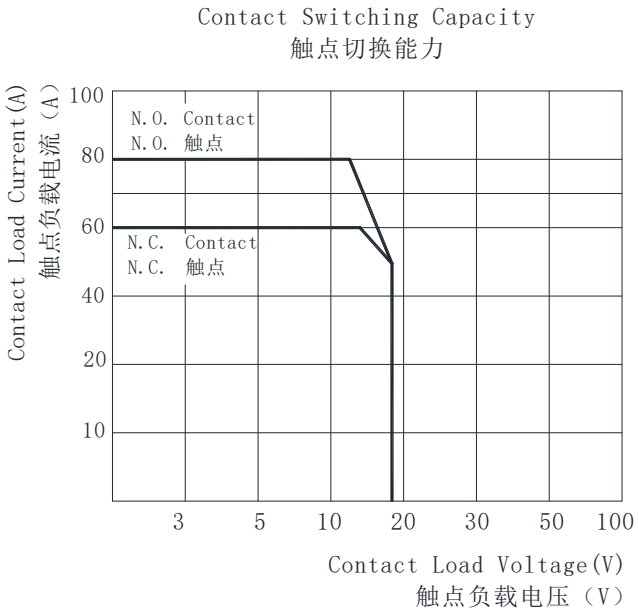
## ■ORDERING INFORMATION 订货标记示例

**TRV6 -12VDC -Z -F -P1 T /XX**

| | | | | |
|---|---|---|---|---|
| **Type**<br>**型号** | | | | |
| **Coil Voltage**<br>**线圈电压** | 06, 12, 24, 36VDC | | | |
| **Contact Arrangement**<br>**触点形式** | **Z**: 1 Form C<br>**Z**: 一组转换 | **H**: 1 Form A<br>**H**: 一组常开 | **D**: 1 Form B<br>**D**: 一组常闭 | **U**: 1 Form U<br>**U**: 双常开 |
| **Version**<br>**结构形式** | **F**: With Plastic Bracket<br>**F**: 带塑料安装架 | **Nil**: Without Plastic Bracket<br>**Nil**: 不带塑料安装架 | | |
| **Terminal**<br>**引出脚形式** | **P1**: PCB Type 5.3mm<br>**P1**: 5.3mm PCB | **P2**: PCB Type 3.2mm<br>**P2**: 3.2mm PCB | **Nil**: Quick Connect Type<br>**Nil**: 快插脚 | |
| **Load Type**<br>**负载类型** | **T**: NO/NC: 80/60A 14VDC | **Nil(无)**: NO/NC: 50/40A 14VDC | | |
| **Special Code**<br>**特性号** | **XX**: Customer Special Requirement<br>**XX**: 客户特殊要求 | **Nil**: Standard Type<br>无: 标准型 | | |

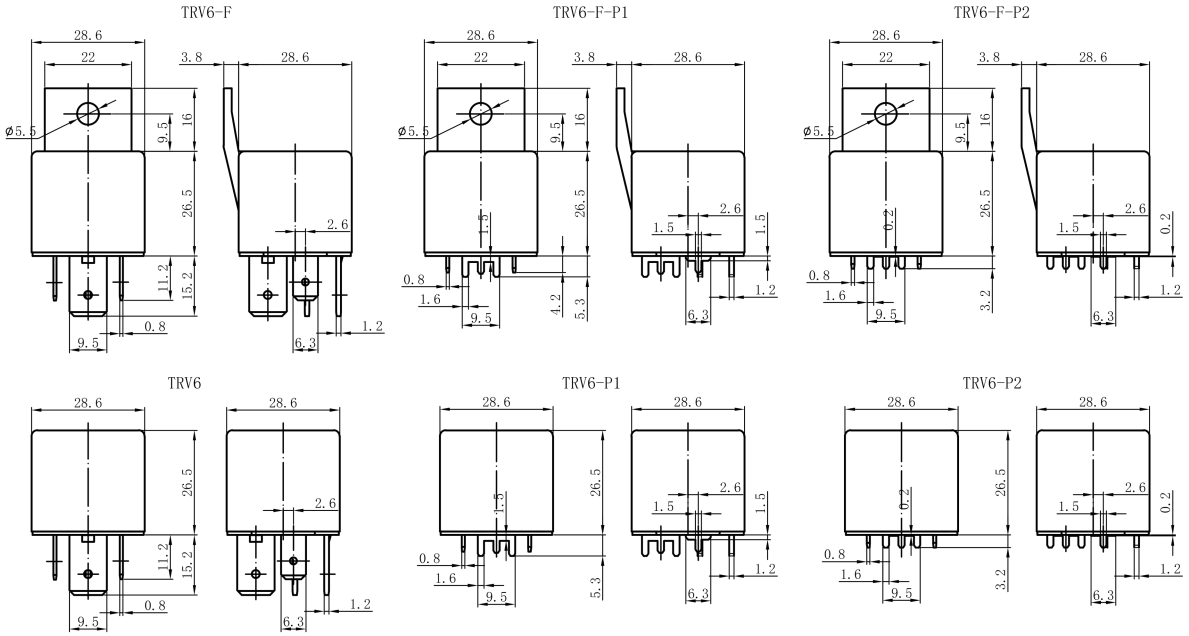
## ■ENGINEERING DATA 设计参数



## ■OVERALL AND MOUNTING DIMENSIONS 安装图

Outline Deminsions
外形图




Wiring Diagram 接线图
(Bottom View 底部视图)

PCB Layout 安装孔尺寸
(Bottom View 底部视图)

备注：

1) 产品外形图的标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的 PCB 板孔的设计尺寸，具体 PCB 板孔设计尺寸可根据产品实物进行测绘、调整；
2) 产品部分外形尺寸中未注尺寸公差：当外形尺寸≤1mm 时，公差为±0.2mm；当外形尺寸在 1~5mm 时，公差为±0.3mm；当外形尺寸＞5mm 时，公差为±0.4mm。
3) 安装孔尺寸中未注尺寸公差均为±0.1mm。

Remark:

1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The additional tin top is max. 1mm.
3) The tolerance without indicating for PCB layout is always ±0.1mm.

**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。

**Disclaimer:**

The specification is for reference only. Specification subject to change without notice.