

# 汽车继电器

## TRV3

- 40A continuous rating 85°C  
85°C时 40A 持续负载
- Plug-in or PC board terminals  
插入式和 PCB 式引脚
- Optional mounting bracket  
可选择带安装靠背
- Conform to ROHS,ELV directive  
符合 ROHS,ELV 指令



### CONTACT DATA 触点参数

Contact Arrangement 触点形式	1Z/1H/1D
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: 40A 14VDC NC: 30A 14VDC
Max. Switching Voltage 最大切换电压	30VDC
Max. Switching Current 最大切换电流	40A
Max. Switching Power 最大切换功率	560W
Contact Resistance 接触电阻	100mΩ Max. at 6VDC 1A
Electrical Endurance 电耐久性	1×10 <sup>5</sup> OPS(at 20 OPS/min)
Mechanical Endurance 机械耐久性	1×10 <sup>7</sup> OPS(at 300 OPS/min)

### 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	550VAC(50/60Hz for 1 minute)
	Between Contacts and Coil 触点与线圈间	550VAC(50/60Hz for 1 minute)
Operate Time 动作时间	10ms Max.	
Release Time 释放时间	10ms Max.	
Ambient Temperature 环境温度	-40°C to +85°C	
Shock Resistance 冲击	Functional 稳定性: 20G	
	Destructive 强度: 100G	
Vibration Resistance 振动	10-40Hz, 1.5mm DA 双振幅	
Max. Switching Frequency 最大切换频率	Mechanical: 18,000 OPS/h Electrical: 1,200 OPS/h	
Humidity 湿度	20-85%	
Unit Weight 重量	Approx 31g 约31克	

### COIL DATA 线圈参数

Rated Voltage 额定电压 (VDC)	6	12	24	1.6W
Coil Resistance 线圈电阻 ( $\Omega \pm 10\%$ )	23	90	360	
Rated Current 额定电流 (mA)	267	133	67	
Max. Operate Voltage 最大动作电压 (VDC)	3.9	7.8	15.6	
Min. Release Voltage 最小释放电压 (VDC)	0.6	1.2	2.4	
Max. Voltage 最大电压	7.8	15.6	31.2	1.9W
Coil Resistance 线圈电阻 ( $\Omega \pm 10\%$ )	19	76	300	
Rated Current 额定电流 (mA)	317	158	79	
Max. Operate Voltage 最大动作电压 (VDC)	3.9	7.8	15.6	
Min. Release Voltage 最小释放电压 (VDC)	0.6	1.2	2.4	
Max. Voltage 最大电压	7.8	15.6	31.2	

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

		<b>TRV3</b>	<b>L</b>	<b>-Z</b>	<b>-D1</b>	<b>-F</b>	<b>/12VDC</b>
<b>Type</b> 型号	TRV3: 继电器型号						
<b>Power</b> 线圈功耗	L=1.6W; D=1.9W						
<b>Contact Arrangement</b> 触点形式	Z: 1 Form C	H: 1FromA	D: 1FromB				
	H: 一组转换	Z: 一组常开	Z: 一组常闭				
<b>DIODE</b> 二极管	D1: WITH DIODE (带二极管, 详见安装图) D2: WITH DIODE (带二极管, 详见安装图) Nil: WITHOUT DIODE (无二极管)						
<b>Installation method</b> 安装方式	F: WITH BRACKET(有背: 塑料安装背) F1: WITH BRACKET(有背: 金属安装背) None: WITHOUT BRACKET(无背)						
<b>Coil Rated Voltage</b> 线圈额定电压	06, 12, 24VDC						

### CHARACTERISTIC CURVES 性能曲线图



