

LATCHING RELAY 磁保持继电器

TRL4

- 90A 高容量触点负载
90A switching capacity
- IEC62055-31 UC2 申请中
According to IEC62055-31: UC2
- 线圈与触点间介质耐压为 4kV
Dielectric strength 4kv (coil to contacts)
- 此磁保持继电器具有高抗振性
High vibration resistance
- 环保产品（符合 RoHS）
Environmentally friendly products (RoHS Compliant)



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H/1D
Contact Material 触点材料	Silver Alloy 银合金
Contact Ratings 触点负载	60A 250VAC/ 90A 250VAC
Max. Switching Voltage 最大切换电压	250VAC
Max. Switching Power 最大切换功率	22500VA
Contact Resistance 接触电阻	1m Ω Max
Electrical Endurance 电耐久性	1×10^4 OPS(at 2 OPS/min) 1×10^4 次(2次/分钟)
Mechanical Endurance 机械耐久性	1×10^5 OPS(at 30 OPS/min) 1×10^5 次(30次/分钟)

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻	1000M Ω Min. at 500VDC
Dielectric Strength 介质耐压	Between Open Contacts 触点间 1500VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间 4000VAC (50/60Hz 1 min)
Operate Time 动作时间	≤ 20 ms
Release Time 释放时间	≤ 20 ms
Ambient Temperature 环境温度	-40°C to +85°C
Shock Resistance 冲击	Functional 稳定性: 10G
	Destructive 强度: 100G
Vibration Resistance 振动	10~55Hz, 1.5mm DA 双振幅
Humidity 湿度	20~90%RH
Unit Weight 重量	Approx. 50g 约50克

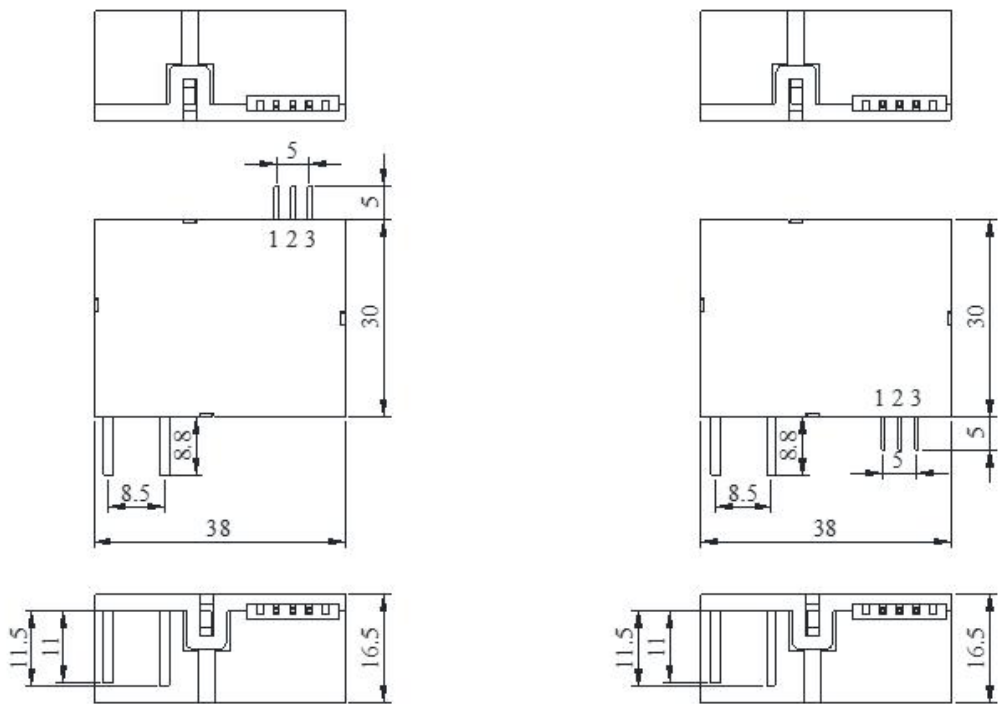
■ COIL DATA 线圈参数 (at 23°C)

Nominal Voltage 额定电压(VDC)	5	8	9	12	24	48	Single coil 单线圈 1.5W
Coil Resistance线圈阻值 (Ω ±10%)	16	24	54	96	384	1536	
Nominal Voltage 额定电压(VDC)	5	8	9	12	24	48	Dual coil 双线圈 3W
Coil Resistance线圈阻值 (Ω ±10%)	8+8	12+12	27+27	48+48	192+192	768+768	
Release Voltage 释放电压(VDC)	70% (max)						
Operate Voltage吸合电压(VDC)	70% (max)						
Rectangular Pulse Width 脉冲宽度(ms)	100ms						

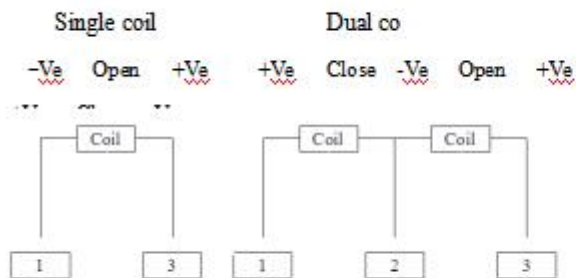
■ ORDERING INFORMATION 订货标记示例

	TRL4	-90	L1	H	R	/12VDC	A	XXX
Type 型号								
Load 负载	60-60A;90-90A							
Coil Power 线圈功率	L1: Single coil 1.5W		L2:Double coil 3.0W					
	L1: 单线圈 1.5W		L2: 双线圈 3.0W					
Contact Arrangement 触点形式	H: 1 Form A		D: 1 Form B					
	H: 一组常开		D: 一组常闭					
Product Form 触点代号	Nil: Standard Type		R: Reverse polarity type					
	Nil: 标准型		R: 反极性型					
Coil Voltage 线圈电压	05, 06, 09, 12, 18, 24, 48VDC							
Customized requirement 线圈引出方向	A: Coil: Type A		B: Coil: Type B					
	A: 线圈类型为 Type A		B: 线圈类型为 Type B					
Special Code 特性号	Nil: Standard Type		XXX: Customer Special Requirement					
	Nil: 标准型		XXX: 客户特殊要求					

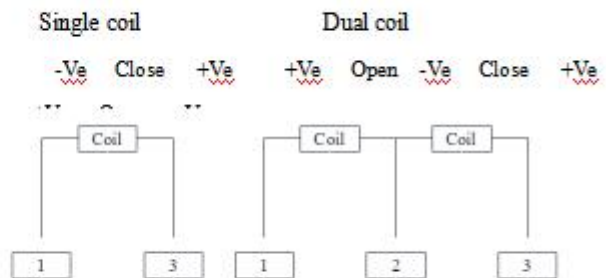
■OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸



Positive polarity

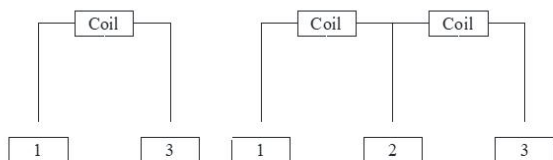


Negative polarity

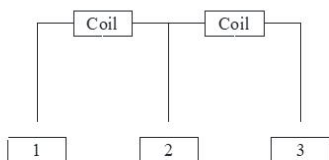


标准极性

单线圈接线图

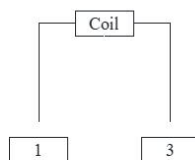


双线圈接线图

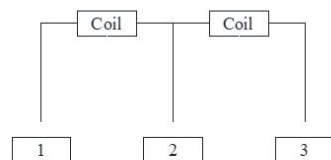


反极性

单线圈接线图



双线圈接线图



备注:

- 1) 产品部分外形尺寸中未注尺寸公差: 当外形尺寸 $\leq 1\text{mm}$ 时, 公差为 $\pm 0.2\text{mm}$; 当外形尺寸在 $1\sim 5\text{mm}$ 时, 公差为 $\pm 0.3\text{mm}$; 当外形尺寸 $> 5\text{mm}$ 时, 公差为 $\pm 0.4\text{mm}$ 。
- 2) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

- 3) 单线圈产品无“2”引脚,引脚“1”和引脚“3”距离是 5mm
- 4) 双线圈产品,引脚“1”和引脚“2”, 引脚“2”和引脚“3”距离是 5mm

Remark:

- 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
- 3) For single coil product,
- 3) For single coil product, the pin“2” is removed, the distance between pin “1” and pin “3” is 5mm
- 4) For double coil product, pin “1” and pin “2”, pin “2” and pin “3” is 5mm

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.
