

LATCHING RELAY 磁保持继电器

TRL3

- High Contact Load
高容量触点负载
- The relays are designed and manufactured in accordance with the standards of DIN IEC 255, part 1-100/VDC 0435, part 201, which directive(LVD)

根据 DIN IEC 255 标准设计制造，按照 1-100/VDC0435 和 204 部分和 LVD 要求



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H/1Z
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载 ($\cos \Phi=1$)
Contact Ratings 触点负载	25A 250VAC
Max. Switching Voltage 最大切换电压	440VAC
Max. Switching Power 最大切换功率	6250VA
Contact Resistance 接触电阻	$\leq 50m\Omega$ (24VDC 1A)
Electrical Endurance 电耐久性	3×10^4 OPS(at 120 OPS/min) 3×10^4 次(120次/分钟)
Mechanical Endurance 机械耐久性	1×10^6 OPS(at 120 OPS/min) 1×10^6 次(120次/分钟)

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻		1000MΩ 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		≤10ms
Release Time 释放时间		≤10ms
Ambient Temperature 环境温度		-40℃to+85℃
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%
Unit Weight 重量		Approx. 36g 约36克

■ COIL DATA 线圈参数 (at 23°C)

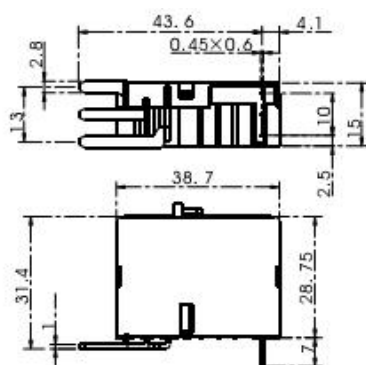
Nominal Voltage额定电压(VDC)	5	6	9	12	18	24	48	Single coil 单线圈 1.0W
Coil Resistance线圈阻值($\Omega \pm 10\%$)	24	36	80	140	200	560	2200	
Rated Current额定电流(mA)	416.67	333.33	225.00	171.43	150.00	85.71	43.64	
Operate coi吸合线圈	12	18	40	70	100	280	1100	Double coil 双线圈 2.0W
Operate coi吸合线圈	12	18	40	70	100	280	1100	
Rated Current额定电流(mA)	416.67	333.33	225.00	171.43	150.00	85.71	43.64	
Release Voltage 释放电压(VDC)	80%(min)							
Operating Voltage吸合电压(VDC)	80%(max)							
Rectangular Pulse width直角形振波宽度(ms)	Min.20							

■ ORDERING INFORMATION 订货标记示例

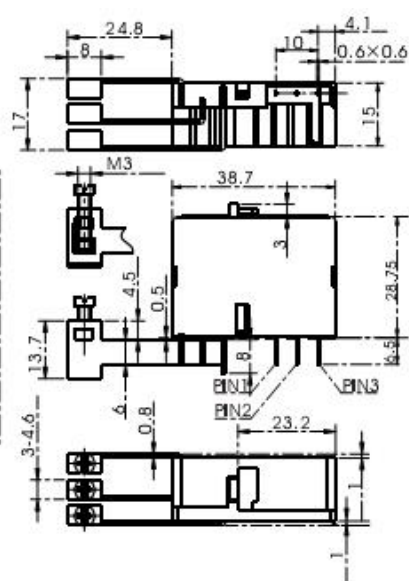
	TRL3	D	-12VDC	-H	-S	-1
Type 型号						
Coil Power 线圈功率	D:双线圈 2W S:单线圈 1W					
Coil Voltage 线圈电压	05, 06, 09, 12, 18, 24, 48VDC					
Contact Arrangement 触点形式	H: 1 Form A D:1 Form B Z:1 Form C H: 一组常开 D: 一组常闭 Z: 一组转换					
Terminal type 线包数	S T					
Number of wire packages 线包数	1:单线圈 2: 双线圈 1: Single Coil 2: Double coil					

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

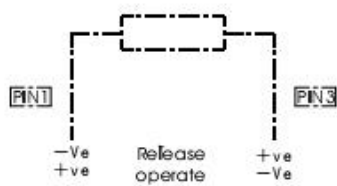
Terminal form(S)
终端形式 (S)



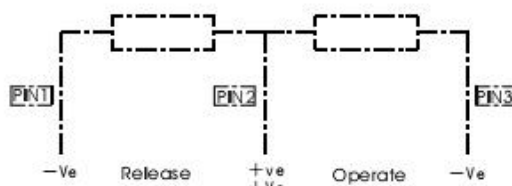
Terminal form(T)
终端形式 (T)



Single coil



Double coil



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 $\leq 1\text{mm}$ 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 $\pm 0.4\text{mm}$ 。
- 3) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

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 additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

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.