

TR90磁保持继电器

特性Characteristics



● 50A 触点分段能力

50A contact segmentation capability

● 触点与线圈间的耐压 4KV

Voltage withstand between contact and coil 4kV

● 外形尺寸 (External dimensions):

32mm× 27.05mm× 19.63mm.

● F级绝缘等级

F-class insulation level

型号标准 Model standard

示例: TR90 / 1 2 - 1H S L T F (X X X)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① TR90产品系列。TR90Product Series

② 线圈电压: 5: 5VDC; 6: 6VDC; 12: 12VDC; 24: 24VDC;

Coil Voltage: 5: 5VDC; 6: 6VDC; 12: 12VDC; 24: 24VDC;

③ 触点形式: 1H: 一组常开

Contact form: 1H: one set of normally open

④ 封装形式: S: 塑封型 无: 防焊剂型

Packaging form: S: Plastic sealed type None: Solder proof type

⑤ 线圈功耗: L: 灵敏型 无: 标准型Coil power

consumption: L: sensitive type None: standard type

⑥ 触点材料: T: AgSnO₂ 无: AgNiContact material: T: AgSnO₂ None: AgNi

⑦ 绝缘等级: F: F级 无: B级

Insulation level: F: F None: B

⑧ 特殊参数: XXX: 客户特殊要求 无: 标准型

Special parameters: XXX: Customer specific requirements None: Standard type

线圈参数 (标准型 0.9W) Coil Parameters (Standard Type 0.9W)

额定电压 VDC	线圈阻性 Ω	动作电压 VDC	释放电压 VDC
5	27.8X(1±10%)	≤3.75	≥0.5
6	40X(1±10%)	≤4.5	≥0.6
12	160X(1±10%)	≤9	≥1.2
24	640X(1±10%)	≤18	≥2.4

触点负载 Contactload

型号 model	TR90-50
额定负载 rated load	50A 277VAC
最大切换电流 Maximum Switching Current	50A
最大切换电压 Maximum switching voltage	277VAC
最大切换功率 Maximum switching power	13,850VA

性能参数 Performance parameters

触点材料 contact material	银合金	
接触电阻 contact resistance	1.5mΩ Max(12VDC 1A)	
吸合时间 Pickup time	15ms. Max.	
释放时间 RELEASE	10ms. Max.	
绝缘电阻 insulation resistance	1,000MΩ Min. (DC500V)	
介质耐压 dielectric withstand voltage	触点与触点间: 2500/3500VAC 1min	
	触点与线圈间: 1500/3000VAC 1min	
爬电距离 creepage	10mm	
抗振动 Anti vibration	10~55Hz, 双振幅1.5mm	
扛冲击 Shoulder the impact	耐久	100G min
	误动作	10G min
寿命 lifetime	机械寿命(每小时1800次)	1,000,000 次
	电气寿命(每小时600次)	60A 250VAC/ 3,000次
		60A 60VDC/ 1,000 次
		50A 250VAC/10,000次
环境温度 ambient temperature	-40 ~ +85	
湿度 humidity	5%~85%RH	

注Note:

1: 线圈电流和线圈电阻为线圈温度在23℃下的值, 并有±10%的公差。

Coil current and coil resistance are values at coil temperature of 23°C and have a tolerance of ±10%.

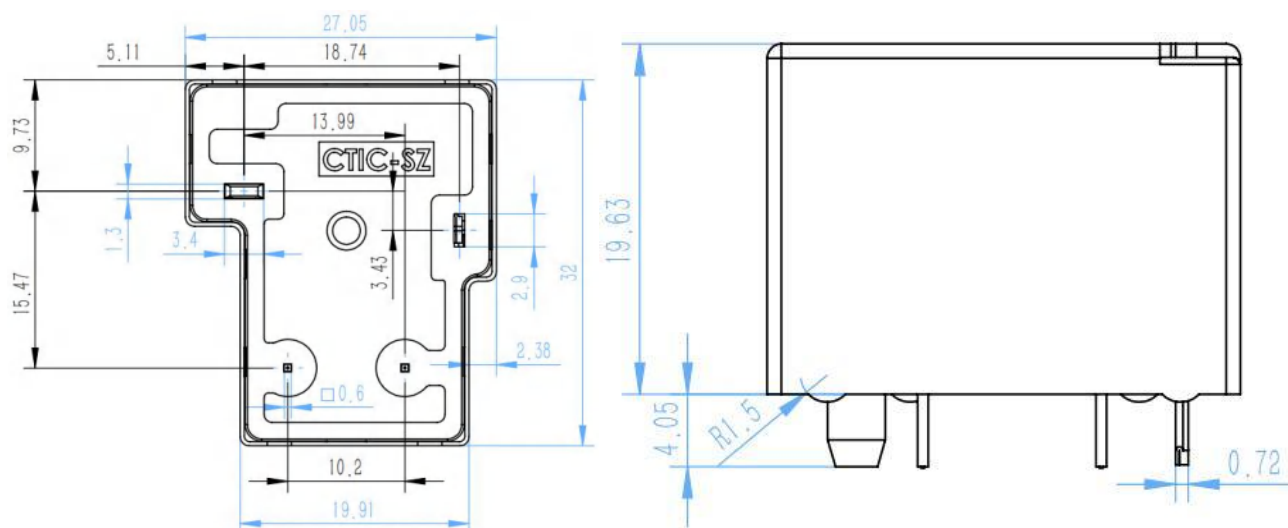
2: 动作电压和释放电压为线圈温度在23℃下的值。

The operating voltage and release voltage are the values at the coil temperature of 23°C.

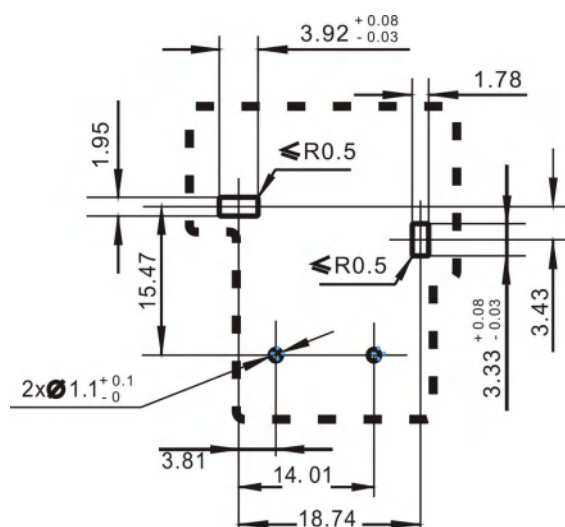
3: 最大允许电压为线圈允许施加的电压的最大值。

The maximum allowed voltage is the maximum value of the voltage allowed to be applied to the coil.

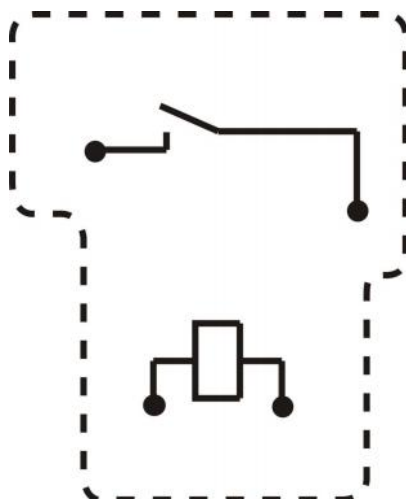
产品外形图(单位：mm) Product outline drawing (unit: mm)



安装孔尺寸底视图 (单位：mm) Bottom view of installation hole size (unit: mm)



接线图 Wiring diagram



典型用途 Typical uses

智能电表、汽车充电桩控制板、电力特殊设备、电源模块

