

PCB 继电器 49F

- 5A触点切换能力
- 外型尺寸：20.0 × 5.0 × 12.5 mm
- 触点和线圈间介质电压3kV
- 超薄、超小型
- 高灵敏度，功耗仅0.12W



TYPICAL USE 典型用途

- Communication 通讯
- Safety equipment, Smart home 安全设备, 智能家居
- PCB Control Board PCB控制板
- Household appliances, Such as air conditioners, Microwave ovens 家用电器, 如空调, 微波炉

ORDERING CODE 订购代码

TL49F — DC12V — A — 5			
1	2	3	4
1. Relay Model 继电器型号	3. 触点转换形式 H: Form A Z: Form C D: Form B		
2. Coil Nominal Voltage 线圈额定电压 5,6,9,12,18,24VDC	4. Nduces foot position 引出脚位5-5.06型脚位 ; 7-7.62型脚位		

COIL DATA 线圈参数 (at 20°C)

Nominal Voltage 额定电压(VDC)	Coil Resistance 线圈阻值($\Omega \pm 10\%$)	Nominal Current 额定电流 (mA)	Max. Continuous Voltage 最大连续外加电压	Pick-Up Voltage 吸合电压 (Max)	Drop-Out Voltage 释放电压 (Min)	Rated Power 额定功率
5	208	24.00	Coil Nominal Voltage 130%额定电压的130%	Coil Nominal Voltage 70%额定 电压的70%	Coil Nominal Voltage 10%额 定电压的10%	0.12W
6	300	20.00				
9	675	13.33				
12	1200	10.00				
18	2700	6.67				
24	4800	5.00				
24	3200	7.50				0.18W

CONTACT DATA 触点参数

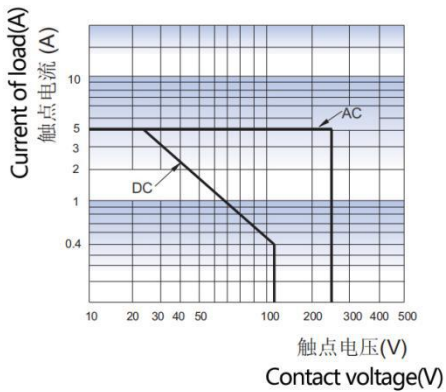
Contact Materials触点材料	Ag Alloy银合金
Contact Form 触点形式	A-1组常开
Rating Load(Resistive)额定负载 (阻性)	5A/7A 250VAC/30VDC
Max Switching Voltage 最大转换电压	277VAC/30VDC
Max Switching Current 最大转换电流	5A/7A
Max Switching Power 最大转换功率	1939VA/210W

CHARACTERISTICS DATA 性能参数

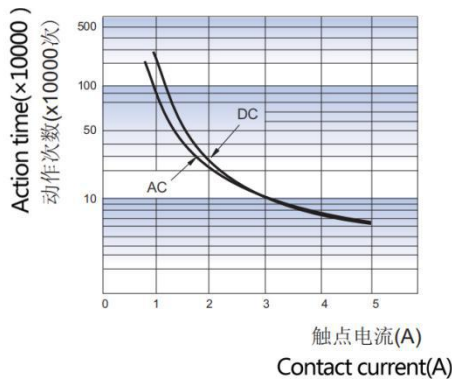
Contact Resistance 接触电阻	100MΩ Max	
Insulation Resistance 绝缘电阻	1000MΩ (DC5000)	
Operate Time 吸合时间	10ms Max	
Release Time 释放时间	5ms Max	
Temperature Range 环境温度	-40°C to +85°C	
Initial Dielectric Strength 介质耐压	Between Open Contacts 触点与触点间	AC 1000V 50/60Hz Min
	Between Contacts And Coil 触点与线圈间	AC 3000V 50/60Hz 1Min
Vibration Resistance 抗振动	Damage limits: 耐久	10~55Hz Double Amplitude 双振幅1.5mm
	Malfunction: 误动作	10~55Hz Double Amplitude 双振幅1.5mm
Shock Resistance 抗冲击	Damage limits: 耐久	100G Min
	Malfunction: 误动作	10G Min
Life 寿命	Mechanical Life(1080 per hour) 机械寿命 (每小时10800次)	1×10 ⁷
	Electrical Life(1800 per hour) 电气寿命 (每小时1800次)	1×10 ⁵
Ambient Temperature 环境温度	-40°C~85°C (No Condensation) 不冷凝	
Unit Weight 单位重量	Approx 约3.0g	

ENGINEERING DATA 设计参数

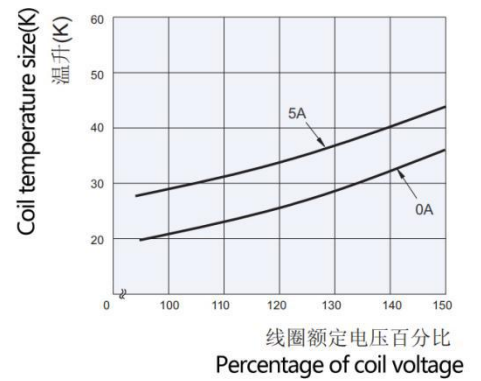
Maximum switching power
最大切换功率



Electric durability curve
电耐久性曲线



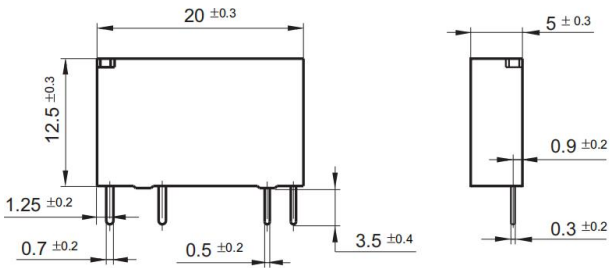
Coil temperature size
线圈温升



OVERALL AND MOUNTING DIMENSIONS 安装图

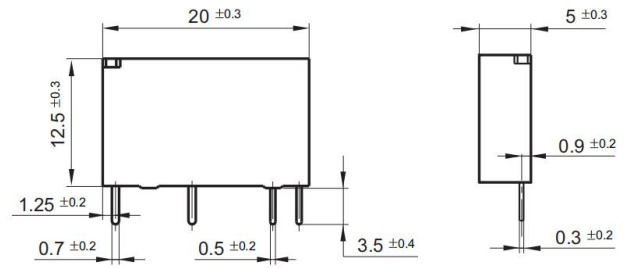
Type 1 foot

1型脚位



Type 2 foot

2型脚位

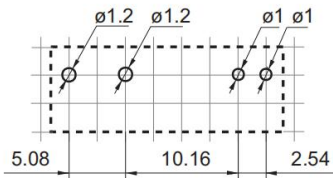


Mounting hole size(bottom view)

安装孔尺寸底视图

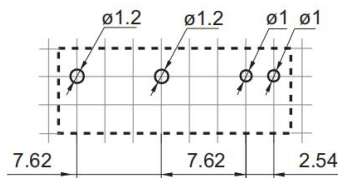
Type 1 foot

1型脚位



Type 2 foot

2型脚位



Wiring diagram(bottom view)

接线图 (底视图)



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 $\pm 0.4\text{mm}$ ；
 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$

Note:1、The size of the lead foot is prewelding dimension
 2、Installation hole size tolerance: $\pm 0.1\text{mm}$

注：1、引出脚尺寸为预焊前尺寸
 2、安装孔尺寸公差： $\pm 0.1\text{mm}$