

**特点Characteristic**

- 1、7A触点切换能力  
7A contact switching capability
- 2、线圈与触点间介质耐压3KV  
3kV dielectris strength(between coil and contacts)
- 3、UL绝缘等级:F级  
UL Insulation class :F
- 4、外形尺寸 (20.0×5.0×12.5) mm  
Overall dimensions (20.0×5.0×12.5) mm



**触点参数Contact parameters**

型号Model	WL49F
触点形式Contact form	1A1A(SPSTNO)
最大切换电流Maximum switching current	7A
最大切换电压Maximum switching voltage	277VAC/30VDC
最大切换功率Maximum switching power	1939VA/210W
触点负载 (阻性) Contact load (resistive)	7A 277VAC/30VDC

**性能参数Performance parameter**

触点材料Contact material	银合金 Ag alloy	
接触电阻Contact resistance	Max 100MΩ	
动作时间Action time	≤10ms	
释放时间Release time	≤5ms	
绝缘电阻Insulation resistance	Min 100MΩ (500VDC)	
介质耐压 Dielectric Strength	断开触点间 Between contacts	AC 1000VAC 50/60Hz 1min
	触点线圈间 Between contact coils	AC 3000VAC 50/60Hz 1min
冲击 To attack	稳定性Stability	98m/s <sup>2</sup>
	强度Strength	980m/s <sup>2</sup>
振动Vibration	10~55Hz 双振幅1.5mm Double Amplitude	
机械寿命Mechanical endurance min	1×10 <sup>7</sup>	
电气寿命Electrial edurance min	1×10 <sup>5</sup>	
相对湿度Humidity	5%~85%RH	
环境温度Ambient temperature	-40°C~85°C	
重量Weight	约Approx.3.0g	

**订货示例 Ordering example**

	WL49F	-S	-1	12	M	1	X
继电器型号 Type							
密封型式: F-防尘式, S-塑封式 Construction: F-Flux proofed ,S-Plastic Sealed							
继电器触点组数: 1-1组触点 Number of Poles: 1-1 group							
线圈电压: 5, 6, 9, 12, 18, 24VDC Coil Voltage: 5, 6, 9, 12, 18, 24VDC							
触点形式: M-常开 Contact Arrangement: M-N/O							
引出端间距: 1-5.08mm, 2-7.62mm Lead out spacing: 1-5.08mm, 2-7.62mm							
特规参数: 根据客户要求定制, 无-标准型 Special parameters: customized according to customer requirements, Nil-standard							

**线圈参数 Coil parameters**

(at 20°C)

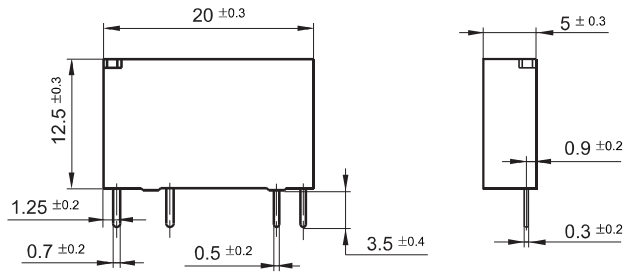
型号规格 Coil Voltage		线圈电阻 Coil Resistance	动作电压 Pick-up Voltage	释放电压 Drop-out Voltage	功率 Coil Power
额定 Rated	最大 Max		额定电压的70% 70% of rated voltage	额定电压的10% 10% of rated voltage	
VDC		Ω±10%	VDC	VDC	W
5	6.5	208	3.5	0.3	0.12
6	7.8	300	4.2	0.5	
9	11.7	675	6.3	0.6	
12	15.6	1200	8.4	0.9	
18	23.4	2700	12.6	1.2	
24	31.2	4800	16.8	2.4	

**安全认证负载 Safety certified load**

认证类别 Certification category	CQC	TUV	UL
认证负载 Certified load	7A 277VAC, 7A 30VDC;	7A 277VAC, 7A 30VDC;	7A 277VAC, 7A 30VDC;

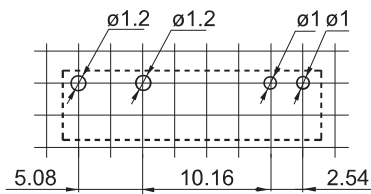
外形及安装图 Outline and installation drawing

Outline Dimensions  
外形图

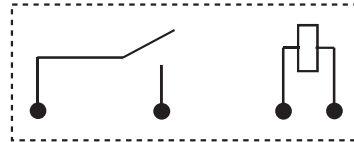


Undimensioned tolerance: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm  
未标注尺寸公差: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm

Note: 1. The size of the lead foot is pre welding dimension. 注: 1、引出脚尺寸为预焊前尺寸  
2. installation hole size tolerance: +0.1mm 2、安装孔尺寸公差: ±0.1mm



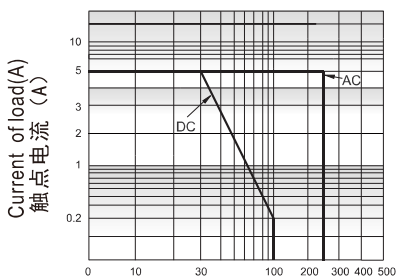
Mounting hole size (bottom view)  
安装孔尺寸 (底视图)



Wiring diagram (bottom view)  
接线图 (底视图)

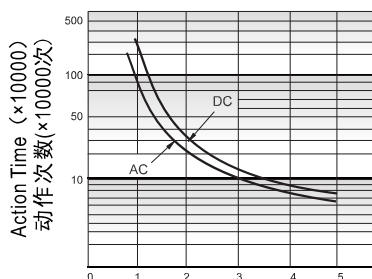
性能曲线图 Performance chart

Max. operating power  
最大切换功率



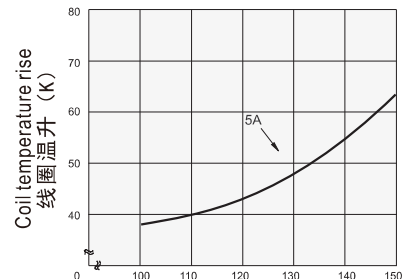
Contact Voltage  
触点电压 (V)

Electric durability curve  
电耐久性曲线



Contact Current (A)  
触点电流 (A)

Coil temperature rise  
线圈温升



Percentage of coil voltage  
线圈电压的百分比