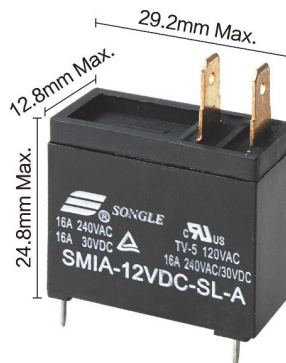


## 小型大功率继电器 Miniature High Power Relay

16A

### 特性 / FEATURES

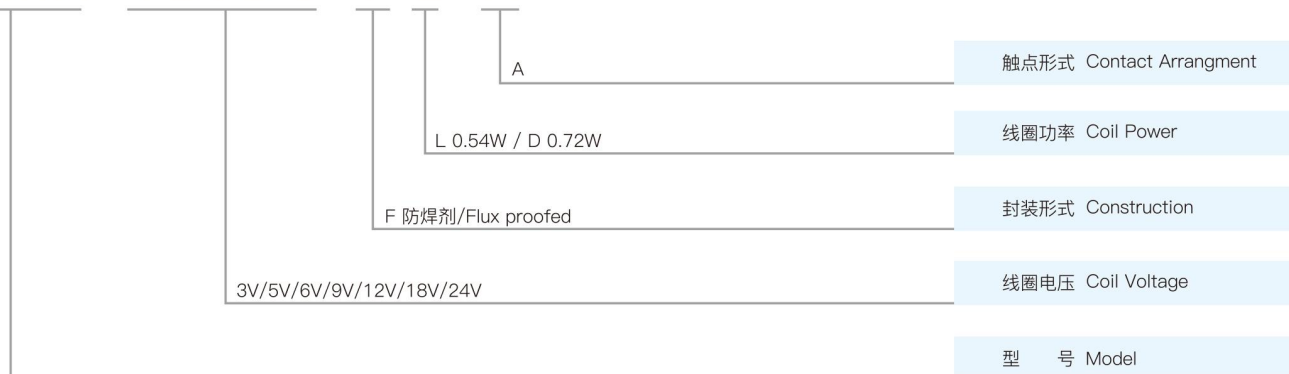
- 20A触点切换能力  
20A switching capability
- 线圈与触点间介质耐压5kV  
5kV dielectric strength(between coil and contacts)
- 线圈与触点间抗浪涌电压10kV  
10kV impulse withstand voltage(between coil and contacts)
- 爬电距离为8mm  
Creepage distance: 8mm
- 印制板式和快连接式引出脚  
PCB & QC layouts



**RoHS**  
Compliant

### 订购信息 / ORDERING INFORMATION

## SMIA-12VDC-F L-A



### 触点参数 / CONTACT PARAMETERS

触点形式	Contact arrangement	A
接触电阻	Contact resistance	≤50mΩ (1A 6VDC)
触点材质	Contact material	银合金/Silver alloy: AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> 、AgSnO <sub>2</sub> 、AgNi
触点负载(阻性)	Contact rating(Res. load)	16A 250VAC/30VDC, TV-5 120VAC
最大切换电压	Max switching voltage	277VAC/30VDC
最大切换电流	Max switching current	20A
最大切换功率	Max switching power	4000VA/480W
电耐久性 (频率:每小时360次)	Electrical endurance (Frequency:360 ops/h)	1x10 <sup>5</sup> ops / 1x10 <sup>4</sup> ops
机械耐久性 (频率:每小时18000次)	Mechanical endurance (Frequency:18000 ops/h)	1x10 <sup>7</sup> ops

## 小型大功率继电器

Miniature High Power Relay

16A

### 特性参数 / CHARACTERISTICS PARAMETERS

绝缘等级	Insulation level		B/F
绝缘电阻	Insulation resistance		1000MΩ(500VDC)
介质耐压 (漏电流 1mA)	Dielectric strength (Leakage current 1mA)	线圈与触点间 Between coil and contacts	5000VAC 1min
		断开触点间 Between open contacts	1000VAC 1min
吸合时间(额定电压下)	Operate time(at nominal voltage)		≤20ms
释放时间(额定电压下)	Release time (without diode) (at nominal voltage)		≤10ms
湿度	Humidity		5% ~ 85% RH
环境温度(°C)	Ambient temperature		-40°C ~ +85°C
抗冲击	Shock resistance	稳定性/Functional	98m/s <sup>2</sup>
		强度/Destructive	980m/s <sup>2</sup>
抗振动(双振幅)	Vibration resistance (Double amplitude)		10Hz~55Hz 1.5mm
重量	Weight		约/Approx 17g
封装形式	Construction		防焊剂/Flux proofed

备注: 以上数据均为初始值  
Remark: All above data is initial value

### 线圈参数 / COIL PARAMETERS

常温/At (23°C)

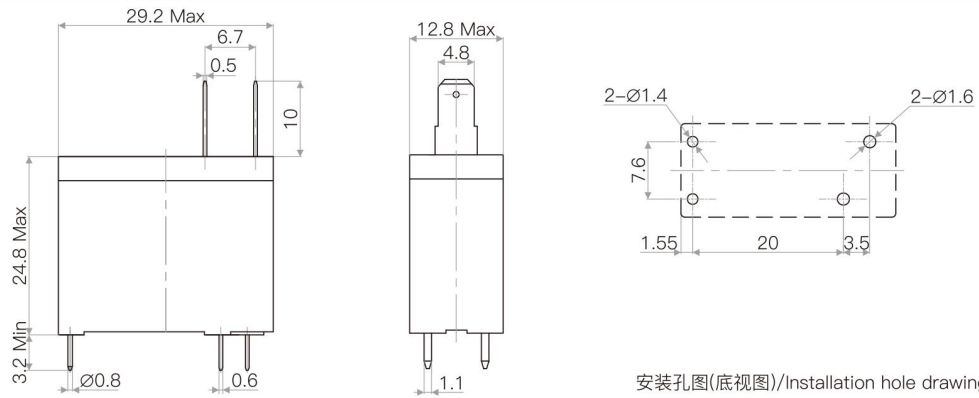
功耗(W)	Power consumption(W)	0.54W(L)								0.72W(D)							
		05	06	09	12	18	24	36	48	05	06	09	12	18	24	36	48
额定电压(VDC)	Nominal voltage(VDC)																
线圈电阻(Ω±10%)	Coil resistance(Ω±10%)	46.3	66.7	150	267	600	1067	2400	4267	34.7	50	112.5	200	450	800	1800	3200
吸合电压(Max)	Pick-up voltage(Max)	80% 额定电压(Nominal voltage)															
释放电压(Min)	Drop-out voltage(Min)	5% 额定电压(Nominal voltage)															
允许最大电压(VDC)	Max allowable overdrive voltage(VDC)	130% 额定电压(Nominal voltage)															

### 安全认证(相关认证以第三方认证证书为准) / SAFETY APPROVAL RATINGS



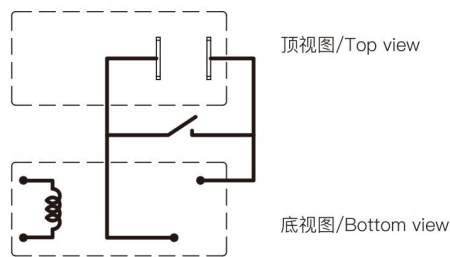
### 外形图 / OUTLINE DIMENSIONS

单位/Unit(mm)



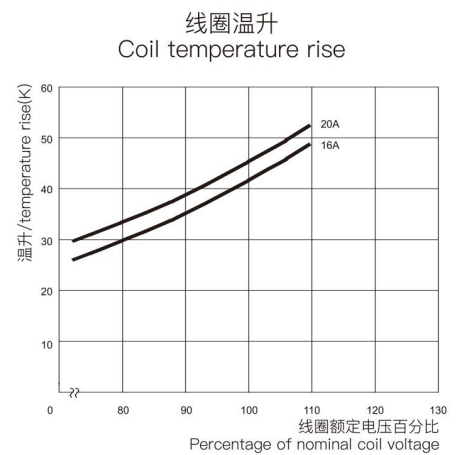
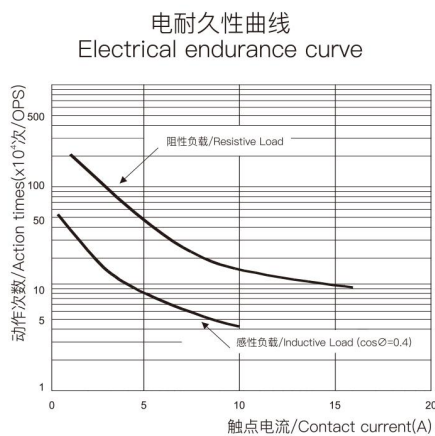
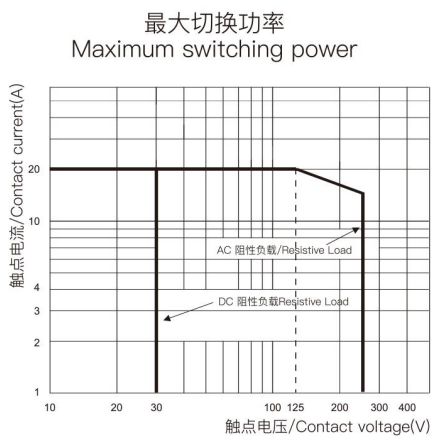
安装孔图(底视图)/Installation hole drawing(Bottom view)  
未注公差/Tolerance:±0.1

### 线路图/ WIRING DIAGRAM



常开A型/Normally open A type

### 性能曲线图 / CHARACTERISTIC CURVES



测试条件: 室温, 1s通1s断。  
Test conditions: Room temp., 1s on 1s off.