

继电器

TL-14F1

- 10A switching capability
- SPST-NO&SPDT configuration
- Small footprint
- Sealed version available
- Class B/F available
- Size:29*12.7*20.4mm



■ ORDERING CODE 订购代码

<u>TL14F1</u> — <u>12VDC</u> — <u>S</u> — <u>Z</u> 1 2 3 4			
1. Relay Model 继电器型号	3. S: Sealed 密封		
2. Coil Nominal Voltage 线圈额定电压 3,5,6,9,12,24VDC	4. 触点转换形式 Z: Form C H: Form A		

■ COIL DATA 线圈参数 (at 20℃)

Nominal Voltage 额定电压(VDC)	3	5	6	9	12	24	48	0.54W
Coil Resistance 线圈阻值($\Omega \pm 10\%$)	17	46	67	150	270	1050	4250	
Rated Current 额定电流(mA)	180	108	90	60	45	22.5	11.3	
Max Operate Voltage 最大吸合电压(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
Min Release Voltage 最小释放电压(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Coil Resistance 线圈阻值($\Omega \pm 10\%$)	13	35	50	110	200	800	3200	0.72W
Rated Current 额定电流(mA)	240	144	120	80	60	30	15	
Max Operate Voltage 最大吸合电压(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
Min Release Voltage 最小释放电压(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Max Applicable Voltage 最大过载电压	70℃时额定电压的130%，23℃时额定电压的170%							

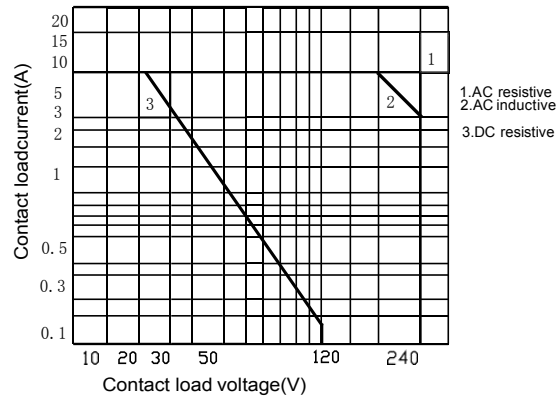
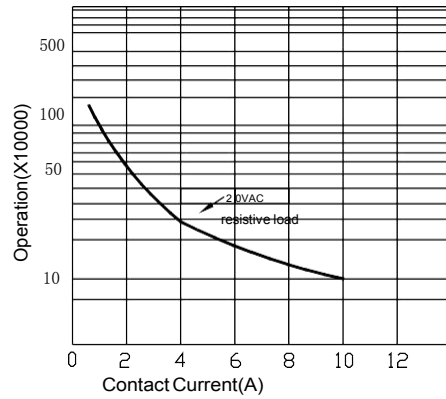
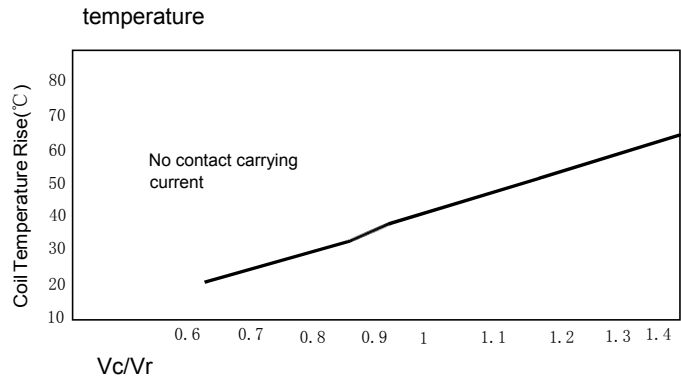
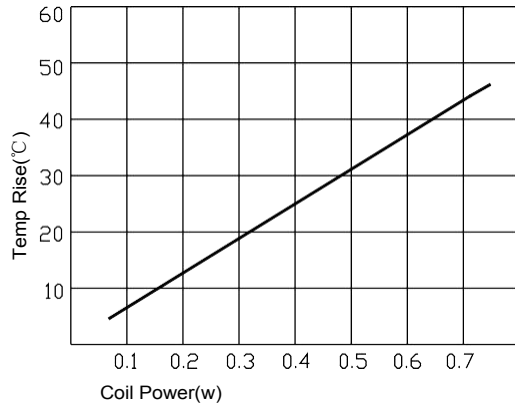
■ CONTACT DATA 触点参数

Contact Form 触点形式	1H/1Z
Contact Material 触点材料	Silver Alloy
Load 负载	Resistive load(COS Φ =1)
Contact Ratings 触点负载	10A 250VAC 10A 30VDC
Minimum load 最小负载	100mA 5VDC
Max Switching Voltage 最大转换电压	250VAC/30VDC
Max Switching Current 最大转换电流	12A
Max Switching Power 最大转换功率	2500VA/300W
Contact Resistance 接触电阻	100m Ω Max at 6VDC 1A
Life Expectancy 寿命	Electrical 电气寿命: 100,000 Operations(at300Operations/minute)
	Mechanical 机械寿命: 10,000,000 Operations(at300Operations/minute)

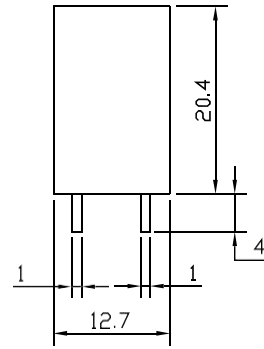
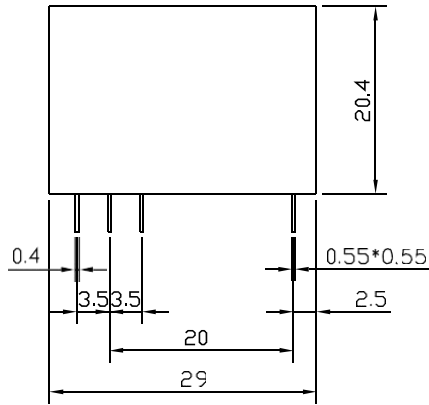
■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	100M Ω Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	1000VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	5000VAC(for one minute)
Operate Time吸合时间	20ms
Release Time释放时间	10ms
Temperature Range环境温度	-40℃to+85℃
Shock Resistance冲击	Operating Extremes动作极限: 10G 11ms
	Damage Limits破坏极限: 100G 6ms
Vibration Resistance振动	10-55Hz, 1.5mm
Max. switching frequency最大转换频率	Mechanical:18,000operations/hr
	Electrical:1,800operations/hr
Humidity湿度	40-85%
Weight重量	Approx 14g

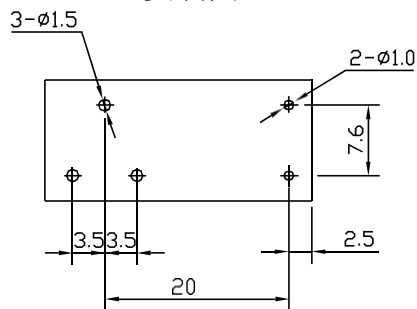
■ ENGINEERING DATA 设计参数



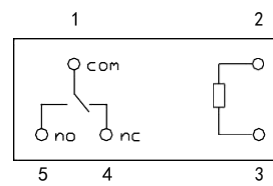
■ OVERALL AND MOUNTING DIMENSIONS 安装图



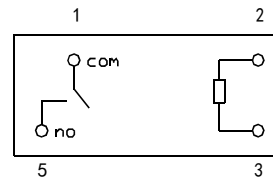
安装图



接线图



Form C



Form A

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

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。