

FEATURES特点

- UL safety approval.
UL 安规认证.
- Subminiature “sugar cube” relay with universal terminal footprint. 普通端子小型“糖块”式继电器
- Tracking resistance: CTI>250
漏电起痕电阻: CTI>250
- UL class-B coil insulation for standard model.(UL class-F coil insulation model available)
标准型符合UL Class B级绝缘型 另有符合 Class F级绝缘型
- Surge strength 4500V.(1.2x50 μ s)
 surge 浪涌电压为4500V.(1.2x50 μ s)
- 400-mW and 360-mW coil power consumption types available.
400-毫瓦及360-毫瓦线圈功率消耗形式皆可供应.



UL FILE NO.: E171095

CONTACT RATING 接点参数

Contact Form接点形式	1A SPST-NO	1C SPDT
Max. Switching Power最大切换功率	2500VA 240W	
Max. Switching Voltage最大切换电压	277VAC 30VDC	125VAC 30VDC
Max. Switching Current最大切换电流	12A	8A
Min. Switching Current /Voltage 最小开关电流/电压	100mA 5VDC	
Rating Load(Resistive)额定负载(阻性)	12A 120VAC 10A 125VAC	8A 30VDC
General Use一般使用	10A 250VAC 6A 277VAC	—————
Horse Power Load马力负载	1/8HP 120VAC(NC)	1/6HP 120VAC 1/3HP 125VAC 15.0FLA 25.0LRA 120VAC
Pilot Duty灯负载	1.5A 30VAC	—————
TV Rating TV负载	TV-3、TV-5	—————
Contact Material接点材质	Ag Alloy银合金	



Y21系列继电器SERIES RELAY

CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1 × 10 ⁶	
Mechanical Life 机械寿命	1 × 10 ⁷	
Insulation Resistance 绝缘阻抗	Min. 100MΩ 500VDC	
Contact Resistance(Initial) 接点电阻	≤ 100mΩ	
Operate Time 动作时间	≤ 10ms	
Release Time 开放时间	≤ 5ms	
Initial Dielectric Strength 耐压	between open contacts 开放接点间: 50/60Hz 750VAC 1min. between contacts and coil 线圈接点间: 50/60Hz 2000VAC 1min.	
Vibration Resistance 耐振动	Malfunction: 误动作:	10 ~ 55Hz Double Amplitude 双振幅 1.5mm
	Damage limits: 耐久:	10 ~ 55Hz Double Amplitude 双振幅 1.5mm
Shock Resistance 耐冲击	Malfunction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature 环境温度	-40°C ~ +85°C (No freezing 无结冰)	
Relative Humidity 相对湿度	35% at 85°C	
Unit Weight 单位重量	约 Approx. 12g	

ORDERING INFORMATION 型号代码说明

Y21 H -1C - 12 D S - F 1 2 3 4 5 6 7	
1. Model Number 型号 2. Coil Sensitivity 线圈感度 Nil = Standard Type. (约0.4W) 标准型 H = High Sensitive Type(约. 0.36W) 高感度型 3. Contact Arrangement 接点形式 1A = 1 Form A 1组常开 1C = 1 Form C 1组转换 4. Coil Voltage 线圈电压 3 ~ 48VDC	5. Coil Type 线圈形式 D = DC 直流 6. Enclosure 密封形式 Nil = General Type 普通型 S = Sealed Type 密封型 7. Type of Insulation 绝缘形式 Nil = Class A F = Class F

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

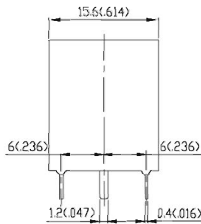
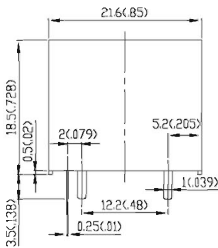
COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ($\Omega \pm 10\%$)	Pick-Up Voltage 动作电压(V) (Max)	Drop-Out Voltage 开放电压(V) (Min)	Nominal Current 额定电流 (mA)
DC Standard Coils 直流标准线圈 (abt. 0.4W)	3	22.5	2.25	0.3	133.3
	5	63	3.75	0.5	79.4
	6	90	4.5	0.6	66.7
	9	200	6.75	0.9	45
	12	360	9	1.2	33.3
	24	1440	18	2.4	16.7
	48	5760	36	4.8	8.33
DC High Sensitive Coils 直流高感度线圈 (abt. 0.36W)	3	25	2.25	0.3	120
	5	70	3.75	0.5	71
	6	100	4.5	0.6	60
	9	225	6.75	0.9	40
	12	400	9	1.2	30
	24	1600	18	2.4	15
	48	6400	36	4.8	7.5

* Max Continuous Voltage at 20°C: 130% of Coil Normal Voltage.
最大使用电压在20°C:线圈额定电压的130%

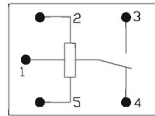
OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

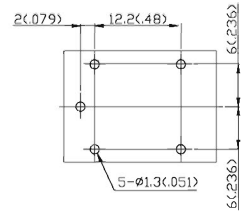
Dimensions尺寸



Internal Connections接线图
(Bottom View底视图)



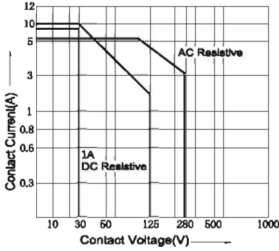
Drilling Plan孔位图
(Bottom View底视图)



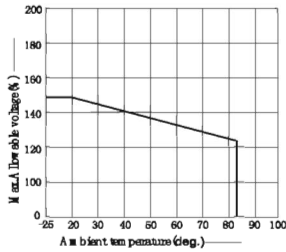
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

Y21 Reference Data 参考资料

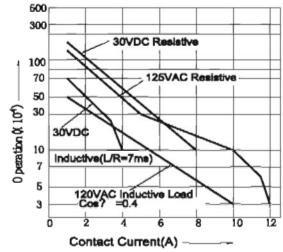
Maximum Switching Power



Ambient Temperature vs Max.Coil Voltage%



Life Curves



SAFETY STANDARD 安规认证

SAFETY 安规名称	Coil Voltage 线圈电压	Contact Rated 接点额定值
UL	DC: 3 – 48V	1C: 12A/120VAC 10A/125VAC 10A/250VDC 6A/277VAC 1.5A/30VAC(Pilot Duty) 1/8HP 120VAC(NC) 1A: 8A/30VDC 1/6HP/120VAC 1/3HP/125VAC TV-5 120VAC TV-3 125VAC 15.0FLA/25.0LRA 120VAC