Y02系列继电器SERIES RELAY

特点 FEATURES

- **单刀20安培及1组转换或1组常开等, 以及双刀12安培,**
  2组转换或2组常开等接点形式和转换能力
  1 Pole 20A,1C or 1A contact, 2 Pole12A, 2C or 2A contact. switching capabilities.
- **高度为15.7毫米**
  Height is 15.7mm.
- **5KV 绝缘线圈到接点**
  5KV dielectric coil to contacts.
- **线圈绝缘符合F级标准**
  Coil Insulation Class F.

用途举例 USE EXAMPLES

家用电器、自动化系统、电子设备、仪器、仪表、通讯装置和遥控设备

接点参数 CONTACT RATING

接点形式 Contact Form	Y02 1A SPST-NO 1C SPDT	Y02 2A DPST-NO 2C DPDT	Y02-T 1A SPST-NO 1C SPDT
最大切换功率 Max. Switching Power	3000VA	3324VA 360W	5540VA/600W
最大切换电压 Max. Switching Voltage	277VAC 30VDC		
最大切换电流 Max. Switching Current	12A	12A	20A
最小切换电流/电压 Min. Switching Current /Voltage	100mA 5VDC		
额定负载(阻性) Rating Load(Resistive)	12A 250VAC	12A 277VAC 12A 24VDC	NO:20A 277VAC NO:20A 24VDC NC:10A 277VAC NC:10A 24VDC
接点材质 Contact Material	银合金 Ag Alloy		

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	1×10^4 (1C:20A 277VAC 105℃) (2C:12A 277VAC 105℃) 1×10^5 (1C:16A 277VAC 105℃)	
机械寿命 Mechanical Life	1×10^7	
绝缘阻抗 Insulation Resistance	Min. 100MΩ 500VDC	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤15ms	
开放时间 Release Time	≤8ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts：50/60Hz 1000VAC 1min. 接点线圈间 between contacts and coil：50/60Hz 5000VAC 1min. 接点组间 between contact sets：50/60Hz 2500VAC 1min.	
耐振动 Vibration Resistance	**误动作:** Functional:	10~55Hz 双振幅 Double Amplitude 1.5mm
	耐久: Destructive:	10~55Hz 双振幅 Double Amplitude 1.5mm
耐冲击 Shock Resistance	**误动作:** Functional:	10G
	耐久: Destructive:	100G

环境温度 Ambient Temperature	-40℃~+105℃ (无结冰 No freezing)
相对湿度 Relative Humidity	85% at 40℃
单位重量 Unit Weight	约Approx.13g

型号代码说明 ORDERING INFORMATION

Y02 - 1A - 12 D S - T

1. **型号** Model Number

2. **接点形式** Contact Arrangement
   1 组常开 1A= 1 Form A　1组转换 1C =1 Form C
   2 组常开 2A= 2 Form A　2组转换 2C= 2 Form C

3. **线圈电压** Coil Voltage
   5、6、9、12、24、48、60、110VDC

4. **线圈形式** Coil Type
   直流 D=DC

5. **密封形式** Enclosure
   普通型 Type Nil =General　密封型 Type S =Sealed

6. **端子形式** Type Terminal
   单脚 Nil =One Foot　T = Two Feet (“T”仅限于单刀接点形式)双脚) (Remark“T” is for One Pole only)

线圈额定值 (在20℃) COIL RATINGS (AT 20℃)

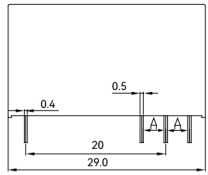
线圈形式 Coil Type	**线圈额定电压 (V)** Coil Nominal Voltage	**线圈阻抗 (Ω±10%)** Coil Resistance	**动作电压(V) (Max)** Pick-Up Voltage	**开放电压(V) (Min)** Drop-Out Voltage	**额定电流 (mA)** Nominal Current
直流标准线圈 (abt. 0.4W) DC Standard Coils	5	62	3.75	0.25	80.6
	6	90	4.5	0.3	66.7
	9	200	6.75	0.45	45
	12	360	9.0	0.6	33.3
	24	1440	18.0	1.2	16.7
	48	5760	36.0	2.4	8.7
	60	7340	45.0	3.0	8.2
	110	26600	82.5	5.5	4.1

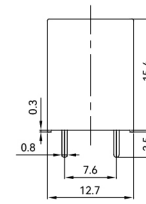
* 最大使用电压在20℃:线圈额定电压的130%
  Max Continuous Voltage at 20°C:130% of Coil Normal Voltage

外部尺寸 OUTLINE DIMENSIONS

单位: 毫米 UNIT: mm

尺寸 Dimensions

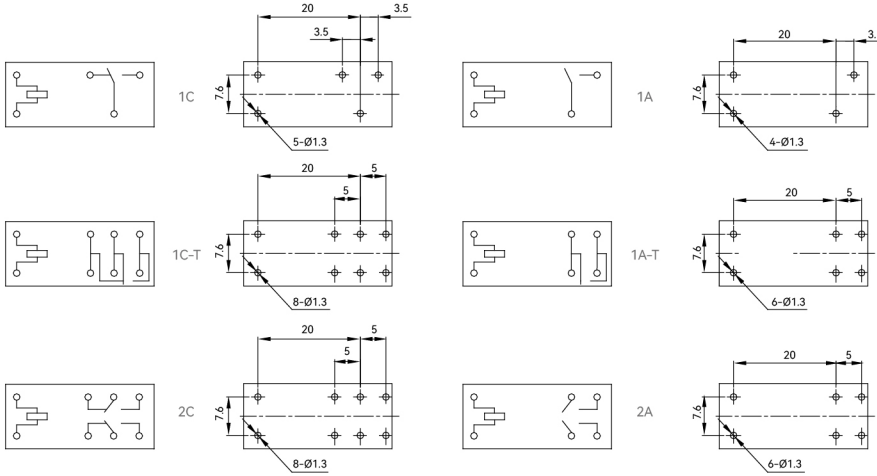




A:3.5; 5.0

接线图 Internal Connections (底视图 Bottom View)

孔位图 PCB Layout (底视图 Bottom View)



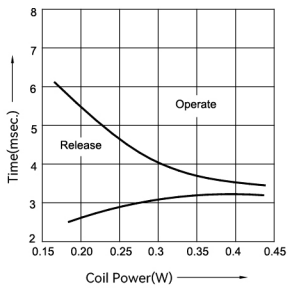
备注: 尺寸公差≤5mm±0.2mm， > 5mm±0.3mm，印刷电路板孔+0.2mm

REMARK: Dimensions≤5mm±0.2mm， > 5mm±0.3mm，the tolerance of PCB thru hole: +0.2mm

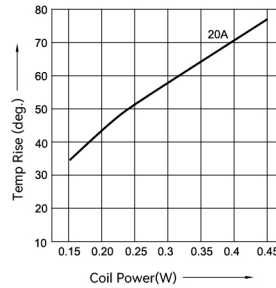
参考资料 Y02 REFERENCE DATA

Y02-1A/T,Y02-1C/T

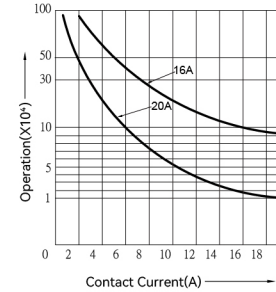
Timing



Coil Temperature Rise

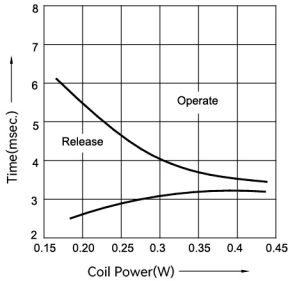


Life Curves

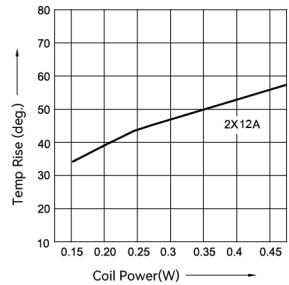


Y02-2A,Y02-2C

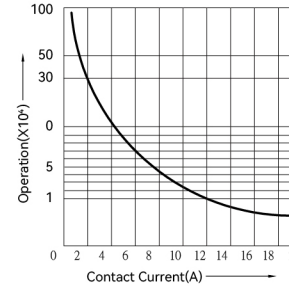
Timing



Coil Temperature Rise



Life Curves



安规认证 SAFETY STANDARD

安规名称 Approval	线圈电压 Coil Voltage	接点额定值 Contact Rating
UL FILE NO.: E169563	DC:3V ~ 110V	(Y02-T 1A/1C) NO:20A 277VAC NC:10A 277VAC 1HP 240VAC 1/2HP 120VAC
UL FILE NO.: E171095	DC:5V ~ 110V	(Y02 1A/1C) 12A 250VAC 1/2HP 240VAC 1/3HP 120VAC (Y02 2A/2C) 12A 277VAC 5A 30VDC 1/2HP 240VAC 1/4HP 120VAC TV-3(NO) 360VA 240VAC(B300)(Form A only)
TUV	DC:12V,24V	(Y02-T 1A/1C) NO:20A 277VAC NO:20A 24VDC NC:10A 277VAC NC:10A 24VDC (Y02 2A/2C) 12A 277VAC 12A 24VDC
CQC FILE NO.: CQC09002035166	DC:12V,24V	(Y02-T 1A/1C) NO:20A 277VAC NC:10A 277VAC (Y02 1A/1C) 12A 250VAC (Y02 2A/2C) 12A 277VAC

* TUV 申请中 Application