

## FEATURES特点

10Amps Power relay. 10安培功率继电器  
 UL ,CQC& TUV safety approval.  
 UL ,CQC及 TUV 安规认证.  
 High dielectric strength. 高绝缘力度  
 4,000VAC between contacts and coil.  
 接点线圈间为4,000VAC  
 Nominal power 200mW~450mW.  
 正常功率200mW~450mW.  
 Sensitive and standard coil available.  
 高感度型及标准型两种供选择.



UL FILE NO.:E171095  
 CQC FILE NO.:CQC 13002092995  
 TUV FILE NO.: R50321164

## CONTACT RATING 接点参数

Contact Form 接点形式	1A SPST-NO
Max. Switching Power最大切换功率	2500VA
Max. Switching Voltage最大切换电压	250VAC
Max. Switching Current最大切换电流	10A
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC
Rating Load(Resistive)额定负载(阻性)	10A 250VAC
Contact Material 接点材质	Ag Alloy银合金

## CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1 × 10 <sup>5</sup>	
Mechanical Life机械寿命	1 × 10 <sup>6</sup>	
Insulation Resistance绝缘阻抗	Min. 1,000M 500VDC	
Contact Resistance(Initial)接触电阻	100m (6VDC 1A)	
Operate Time 动作时间	20ms	
Release Time 开放时间	10ms	
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 1000VAC 1min. between contacts and coil接点线圈间: 50/60Hz 4000VAC 1min	
Vibration Resistance 耐振动	Malfuction: 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	Malfuction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-40 ~ +85 (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40	
Unit Weight单位重量	约Approx. 5.7g	

## ORDERING INFORMATION 型号代码说明

133 H - 1A - 12 D S - F 1 2 3 4 5 6 7	
1. Model Number 型号 133=10A, 1331=5A, 1332=8A 2. Coil Sensitivity 线圈感度 Nil = Standard Type 标准型 (abt. 0.45W) H = High Sensitive Type 高感度型 (abt. 0.2W) 3. Contact Arrangement 接点形式 1A = 1 Form A 1组常开 4. Coil Voltage 线圈电压 5、9、12、24VDC	5. Coil Type 线圈形式 D=DC 直流 6. Enclosure 密封形式 S = Sealed Type 密封型 7. Insulation Type 绝缘形式 Nil = Class A F = Class F

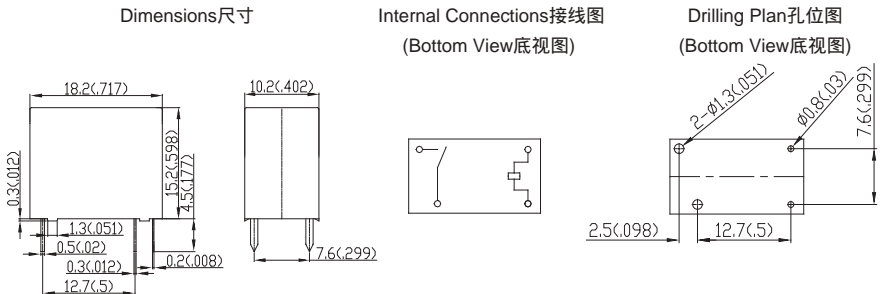
## COIL RATINGS (at 20 ) 线圈额定值 (在20 )

COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ( ± 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. 0.45W)	5	56	3.75	0.25	89
	9	180	6.75	0.45	50
	12	320	9	0.6	37.5
	24	1280	18	1.2	18.8
DC High Sensitive Coils 直流高感度线圈 (abt. 0.2W)	5	125	3.75	0.25	40
	9	405	6.75	0.45	22.2
	12	720	9	0.6	16.7
	24	2800	18	1.2	8.3

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

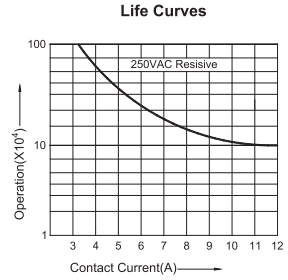
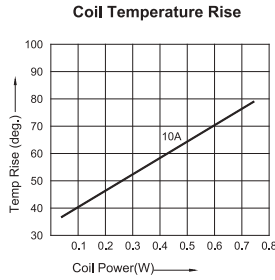
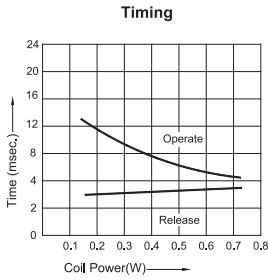
## OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)



REMARK: Dimensions 5mm ± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.2mm  
 备注: 尺寸公差 5mm ± 0.2mm, > 5mm ± 0.3mm, 印刷电路板孔+0.2mm

## 133 Reference Data 参考资料



## 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: 5V~24V	(1331) 5A 277VAC 5A 250VAC 1/3HP 240VAC 5A 30VDC 1/6HP 277VAC (1331H) 5A 277VAC 5A 250VAC 1/4HP 240VAC 1/6HP 277VAC 3A 30VDC (133/133H) 10A 250VAC 1/3HP 240VAC 5A 30VDC 10A 277VAC (1332/1332H) 8A 277VAC 8A 250VAC
CQC	DC: 5V ~ 24V	(133) 10A 250VAC (1331/1331H) 5A 250VAC
	DC: 5V, 9V, 12V, 24V	(1332/1332H) 8A 250VAC
TUV	DC: 5V ~ 24V	(133) 10A 250VAC (1331/1331H) 5A 250VAC
	DC: 5V, 9V, 12V, 24V	(1332) 8A 250VAC

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