

FEATURES特点

- High-capacity, small PCB relay.
大容量，小型PCB继电器。
- Apply to automotive.
适用于汽车
- Lead-free process / RoHS.
无铅制程/ RoHS指令



用途：汽车水箱风扇和压缩机

CONTACT RATING 接点参数

Contact Form 接点形式	1C SPDT
Max. Switching Power最大切换功率	420W
Max. Switching Voltage最大切换电压	14VDC
Max. Switching Current最大切换电流	30A
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC
Motor Load 马达负载	DC14V 25A (最大连续通电电流为25A,10分钟)
Contact Material 接点材质	Ag Alloy银合金

CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1 × 10 ⁵	
Mechanical Life机械寿命	1 × 10 ⁷	
Insulation Resistance绝缘阻抗	Min. 100MΩ 500VDC	
Contact Resistance(Initial)接触电阻	≤ 50mΩ (6VDC 1A)	
Operate Time 动作时间	≤ 10ms	
Release Time 开放时间	≤ 10ms	
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 500VAC 1min. between all conductors线圈接点间: 50/60Hz 500VAC 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°C ~ +85°C (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40°C	
Unit Weight单位重量	约Approx. 4.3g	

ORDERING INFORMATION 型号代码说明

102 - 1C - 12 D S 1 2 3 4 5	
1. Model Number 型号 2. Contact Arrangement 接点形式 1C =1 Form C 1组转换 3. Coil Voltage 线圈电压 12VDC	4. Coil Type 线圈形式 D=DC 直流 5. Enclosure 密封形式 S =Sealed Type 密封型

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

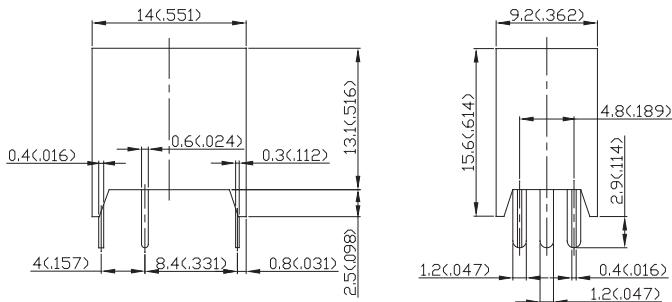
COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ($\Omega \pm 10\%$)	Pick-Up Voltage 动作电压(V) (Max)	Drop-Out Voltage 开放电压(V) (Min)	Power consumption at rated voltage 在额定电压下的 功率消耗(W)
DC Standard Coils 直流标准线圈 (abt. 0.65W)	12	225	7.7	0.6	0.267

* Max Continuous Voltage at 20°C: 110% of Coil Nominal Voltage.
 最大使用电压在20°C:线圈额定电压的110%。

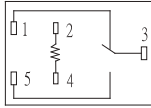
OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

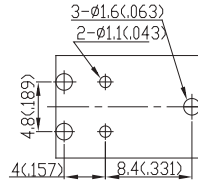
Dimensions尺寸



Internal Connections 接线图
(Bottom View 底视图)



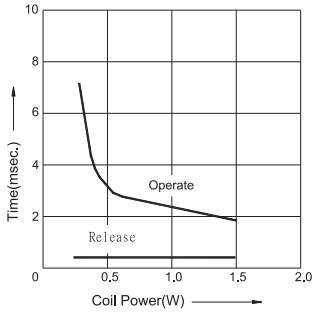
Drilling Plan 孔位图
(Bottom View 底视图)



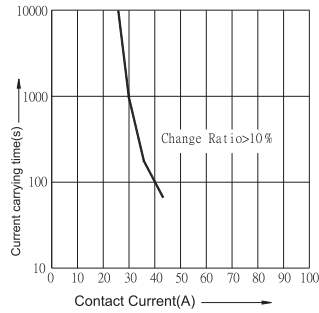
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

102 Reference Data 参考资料

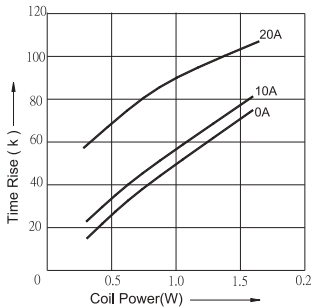
Timing



Over Current Limit



Coil Temperature Rise



Temperature Rise

