

Signal Relay Series 信号继电器系列--QY4100

FEATURES特点

- Up to 5A Amps ultra-small relay
最大可达5A安培超小型继电器
- Sealed type structure
密封型结构
- Standard type & high sensitivity type available
标准型及高感度型
- Outline dimensions (15.5X10.5X11.5) mm
外形尺寸 (15.5X10.5X11.5) mm



CONTACT PARAMETERS触点参数

Model Series 型号系列	QY4100-1A	QY4100-3A	QY4100-5A
Rating Load (Resistive) 额定负载 (阻性)	1A 125VAC/30VDC	3A 250VAC/30VDC	5A 250VAC/30VDC
Max. Switching Current 最大切换电流	1A	3A	5A
Max. Switching Voltage 最大切换电压	125VAC/30VDC	250VAC/30VDC	250VAC/30VDC
Max. Switching Power 最大切换功率	125VA/30W	750VA/90W	1250VA/150W

CHARACTERISTICS性能参数

Contact Materials 触点材料	Ag Alloy 银合金		
Contact Resistance 接触电阻	100mΩ Max.		
Operate Time 吸合时间	QY4100-L: 8msec. Max.	QY4100-H: 10msec. Max.	
Release Time 释放时间	4msec. Max.		
Insulation Resistance 绝缘电阻	100MΩ Min. (DC500V)		
Initial Dielectric Strength 介质耐压	Between open contacts: 触点与触点间:	AC500V, 50/60Hz 1Min.	
	Between contacts and coil: 触点与线圈间:	AC750V, 50/60Hz 1Min.	
Vibration Resistance 抗振动	Damage limits: 耐久:	10~55Hz Double Amplitude 双振幅 1.5mm	
	Malfunction: 误动作:	10~55Hz Double Amplitude 双振幅 1.5mm	
Shock Resistance 抗冲击	Damage limits: 耐久:	100G Min.	
	Malfunction: 误动作:	10G Min.	
Life 寿命	Mechanical Life (10800 per hour) 机械寿命 (每小时10800次)	1×10 ⁷	
	Electrical Life (1800 per hour) 电气寿命 (每小时1800次)	1×10 ⁵	
Ambient Temperature 环境温度	-30℃ ~ +85℃ (No condensation) (不冷凝)		
Unit Weight 单位重量	约 Approx. 3.7g		

COIL RATINGS (at 20°C) 线圈参数 (在 20°C)

Coil Nominal Voltage 额定电压 (VDC)	Nominal Current 额定电流 ±10%(mA)	Coil Resistance 线圈电阻 ±10% (Ω)	Max. Continuous Voltage 最大连续外加电压	Pick-Up Voltage 吸合电压 (Max)	Drop-Out Voltage 释放电压 (Min)	Rated power 额定功率
3	122.00	25	Coil Nominal Voltage 130% 额定电压的 130%	Coil Nominal Voltage 75% 额定电压的 75%	Coil Nominal Voltage 5% 额定电压的 5%	About 0.36 W 约0.36W
5	71.43	70				
6	60.00	100				
9	40.00	223				
12	30.00	400				
24	15.00	1,600				

Coil Nominal Voltage 额定电压 (VDC)	Nominal Current 额定电流 ±10(mA)	Coil Resistance 线圈电阻 ±10% (Ω)	Max. Continuous Voltage 最大连续外加电压	Pick-Up Voltage 吸合电压 (Max)	Drop-Out Voltage 释放电压 (Min)	Rated power 额定功率
3	66.67	45	Coil Nominal Voltage 130% 额定电压的 130%	Coil Nominal Voltage 75% 额定电压的 75%	Coil Nominal Voltage 5% 额定电压的 5%	About 0.20 W 约0.20W
5	40.00	125				
6	33.33	180				
9	22.22	405				
12	16.67	720				
24	8.33	2,880				
3	150.00	20				About 0.45 W 约0.45W
5	90.00	55				
6	75.00	80				
9	50.00	180				
12	37.50	320				
24	18.75	1,280				

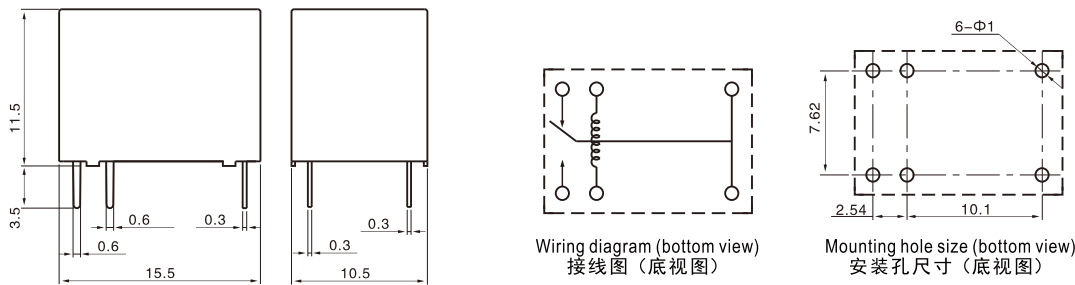
SAFETY STANDARD 安规认证

Approval 认证类别	CQC	UL/C_UL
Authentication Load 认证负载	1A 125VAC	5A 250VAC 1A 30VDC 1A 125VAC

ORDERING INFORMATION 订货标记

QY4100-012-Z-S-L-3-XXX 1 2 3 4 5 6 7	
1. Model Number基本型号: QY4100 2. Coil Voltage线圈规格 (VDC): 03,05,06,09,12,24 3. Contact Form: Z-1 Form C 触点形式: Z-1组转换 4. Enclosure: S-General Type, K-Sealed Type 封装形式: S-标准型, K-密封型	5. Coil Power: Nil-0.20W, L-0.36W, H-0.45W 线圈功率: 无-0.20W, L-0.36W, H-0.45W 6. Special Parameters: Nil-1A, 3-3A, 5-5A 特殊参数: 无-1A, 3-3A, 5-5A 7. Features: XXX- Special Requirements, Nil - Standard Type 特性号: XXX-特殊要求, 无-标准型

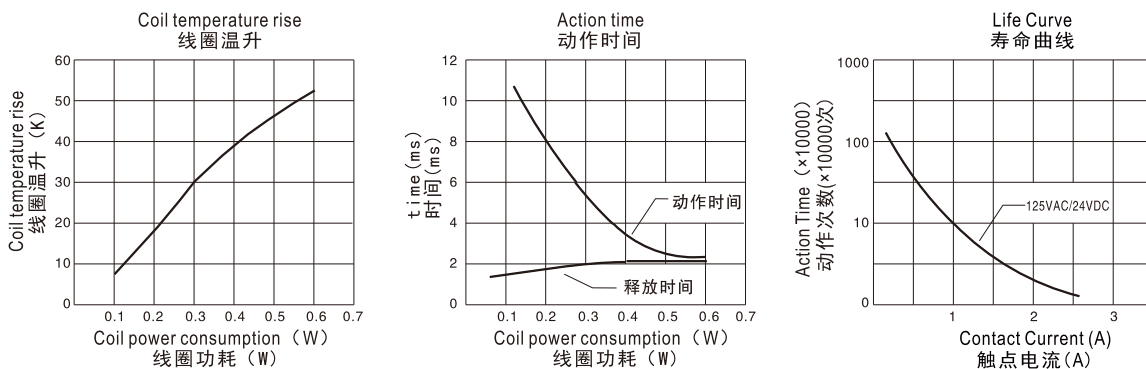
OUTLINE DIMENSIONS (UNIT:mm)外形尺寸 (单位: mm)



Undimensioned tolerance: <1mm: ± 0.2 mm 1~5mm: ± 0.3 mm >5mm: ± 0.4 mm
 未标注尺寸公差: <1mm: ± 0.2 mm 1~5mm: ± 0.3 mm >5mm: ± 0.4 mm

Note: 1. The size of the lead foot is pre welding dimension. 注: 1、引出脚尺寸为预焊前尺寸
 2. installation hole size tolerance: + 0.1mm 2、安装孔尺寸公差: ± 0.1 mm

PERFORMANCE CHART 性能曲线图



TYPICAL USE 典型用途

- Communication equipment, Office equipment, Household appliances, Audio equipment, Thermostat Etc.
- 通讯设备, 办公设备, 家用电器, 音响设备, 温控器等。