

Automotive Relay Series 汽车继电器系列--QY301

FEATURES 特点

- Up to 40A contact switching capability
高达40A触点切换能力
- 0.5kV dielectric strength (between coil and contacts)
线圈与触点间介质耐压500V
- European and American feet are available
欧洲脚位及美国脚位可供选择
- Outline dimensions (21.0X25.5X21.5) mm.
外形尺寸 (21.0X25.5X21.5) mm。



CONTACT PARAMETERS 触点参数

Model Series 型号系列	QY301
Rating Load (Resistive) 额定负载 (阻性)	40A 14VDC
Max. Switching Current 最大切换电流	40A
Max. Switching Voltage 最大切换电压	14VDC
Max. Switching Power 最大切换功率	560W

CHARACTERISTICS 性能参数

Contact Materials 触点材料	Ag Alloy 银合金	
Contact Resistance 接触电阻	50mΩ Max.	
Operate Time 吸合时间	6msec. Max.	
Release Time 释放时间	3msec. Max.	
Insulation Resistance 绝缘电阻	500MΩ 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:	AC500V, 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:	20G Min.
Life 寿命	Mechanical Life (10800 per hour) 机械寿命 (每小时10800次)	1 × 10 ⁷
	Electrical Life (600 per hour) 电气寿命 (每小时600次)	1 × 10 ⁵
Ambient Temperature 环境温度	-40°C ~ +125°C (No condensation) (不冷凝)	
Unit Weight 单位重量	Sealed type: 16.0 g; Open type: 20.5 g 密封型: 16.0g; 敞开型: 20.5g	

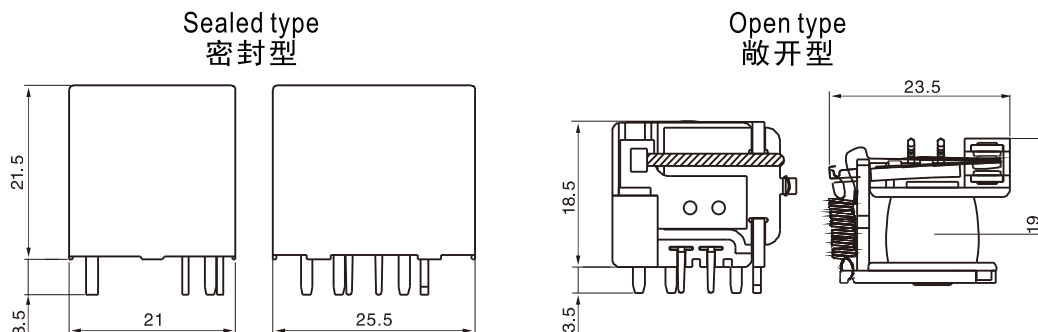
COIL RATINGS (at20°C) 线圈参数 (在20°C)

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
5	320.00	15	Coil Nominal Voltage 150% 额定电压的 150%	Coil Nominal Voltage 58% 额定电压的 58%	Coil Nominal Voltage 10% 额定电压的 10%	About 1.6W 约1.6W
6	266.67	22.5				
9	180.00	50				
12	133.33	90				
18	89.11	202				
24	66.67	360				
48	33.33	1,440				
60	26.6	2,556				
110	14.5	7,586				

ORDERING INFORMATION 订货标记

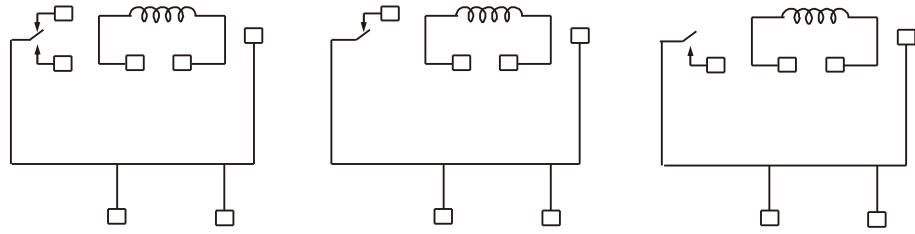
QY301-012-H-S-D-U-1 1 2 3 4 5 6 7	
1. Model Number基本型号: QY301 2. Coil Voltage线圈规格 (VDC): 05, 06, 09, 12, 24, 48, 60, 110 3. Contact Form: H-1 Form A, Z-1 Form C 触点形式: H-1组常开, Z-1组转换 4. Enclosure: S-General Type, K-Sealed Type, Nil-Open Type 封装形式: S-标准型, K-密封型, 无-敞型	5. Coil Power: Nil-1.6W 线圈功率: 无-1.6W 6. Terminal Type: U-USA foot, E-European foot 端子形式: U-美国脚位, E-欧洲脚位 7. Yoke Terminal arrangement: Nil-3 Yoke Terminal, 1-2 Yoke Terminal 轭铁脚形式: 无-3轭铁脚, 1-2轭铁脚

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

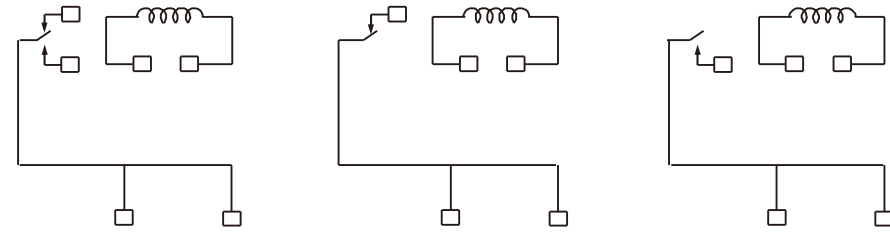


Undimensioned tolerance: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm
 未标注尺寸公差: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm
 Note: 1. The size of the lead foot is pre welding dimension. 注: 1、引出脚尺寸为预焊前尺寸
 2. installation hole size tolerance: +0.1mm 2、安装孔尺寸公差: ±0.1mm

3Yoke iron feet
3轭铁脚



2Yoke iron feet
2轭铁脚

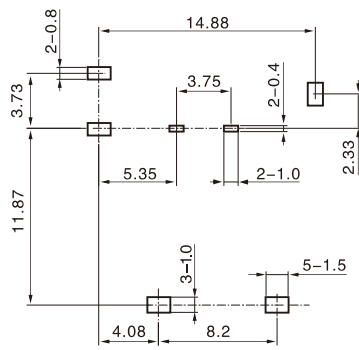


1Z

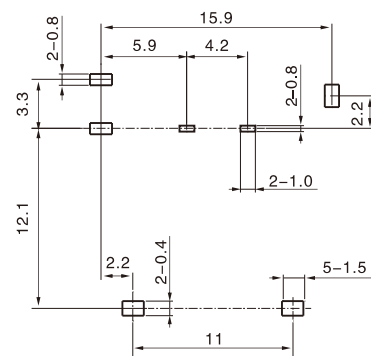
1B

1H

Wiring diagram (bottom view)
接线图 (底视图)



U-美国脚位



E-欧洲脚位

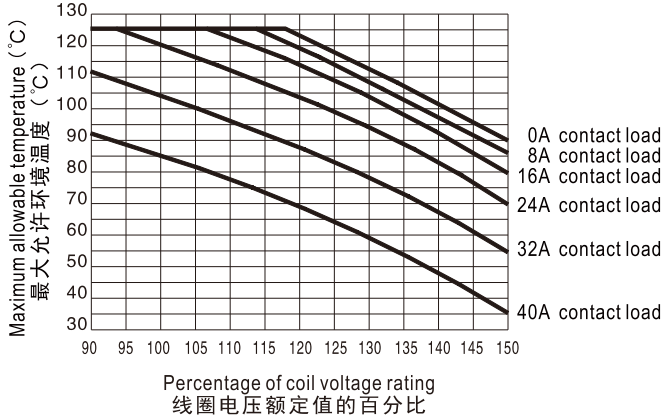
Mounting hole size (bottom view)
安装孔尺寸 (底视图)

TYPICAL USE 典型用途

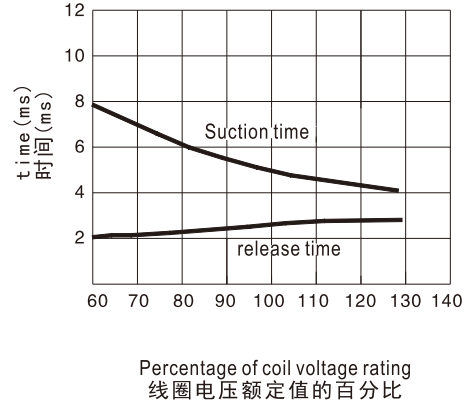
- Auto control switch box, Automatic control, Etc
- 汽车控制开关箱，自动控制等

PERFORMANCE CHART性能曲线图

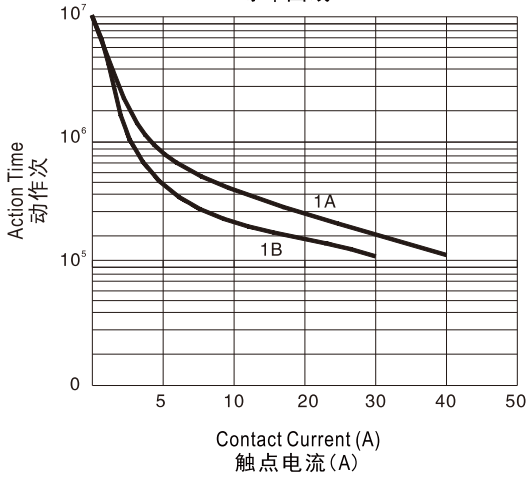
Relationship between ambient temperature and coil voltage
环境温度与线圈电压关系图



Suction time/release time
吸合时间/释放时间



Life Curve
寿命曲线



Arc extinguishing ability of normally open contacts under resistive load
阻性负载下常开触点的灭弧能力

