

Automotive Relay Series 汽车继电器系列--QY306

FEATURES 特点

- Up to 30A contact switching capability  
高达30A触点切换能力
- 1.5kV dielectric strength (between coil and contacts)  
线圈与触点间介质耐压1,500V
- UL insulation system: Class F  
UL绝缘等级: F级
- Outline dimensions: single (12.9X12.0X9.9)mm  
Double (23.5X12.9X9.9)mm  
外形尺寸: 单线包 (12.9X12.0X9.9) mm  
双线包 (23.5X12.9X9.9) mm



CONTACT PARAMETERS 触点参数

Model Series 型号系列	QY306
Rating Load (Resistive) 额定负载 (阻性)	30A 14VDC
Max. Switching Current 最大切换电流	30A
Max. Switching Voltage 最大切换电压	14VDC
Max. Switching Power 最大切换功率	420W

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	4msec. 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:	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:	15G Min.
Life 寿命	Mechanical Life (10800 per hour) 机械寿命 (每小时10800次)	1×10 <sup>7</sup>
	Electrical Life (600 per hour) 电气寿命 (每小时600次)	1×10 <sup>5</sup>
Ambient Temperature 环境温度	-40°C ~ +125°C (No condensation) (不冷凝)	
Unit Weight 单位重量	约Approx4.0g (Single 单线包) 约Approx8.0g (Double 双线包)	

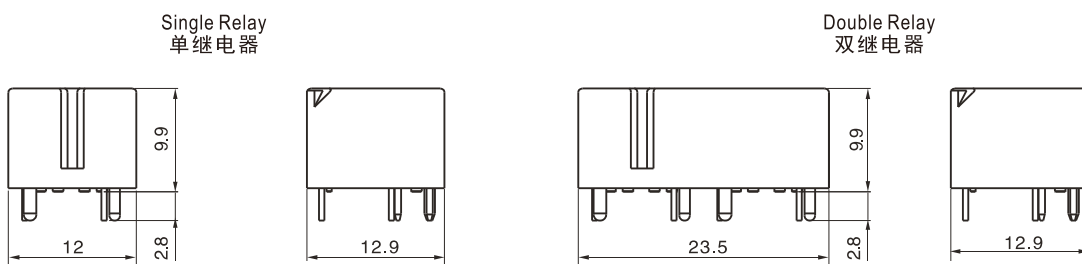
COIL RATINGS (at20°C) 线圈参数 (在20°C)

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
6	95.24	63.00	Coil Nominal Voltage 130% 额定电压的130%	Coil Nominal Voltage 70% 额定电压的70%	Coil Nominal Voltage 10% 额定电压的10%	0.55W
9	61.11	181.00				
12	47.24	254.00				
24	23.62	1,016.00				

ORDERING INFORMATION 订货标记

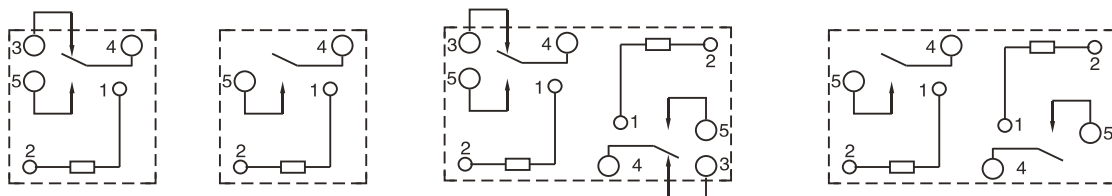
QY306-012-H-X-(XXX)	
1 2 3 4 5	
1. Model Number 基本型号: QY306	4. Coil Power: Nil -0.55W 线圈功率: 无-0.55W
2. Coil Voltage 线圈规格 (VDC): 06,09,12,24	5. Features: XXX-Client Specific Requirements, Nil-Standard Type 特性号: XXX-客户特殊要求, 无-标准型
3. Contact Form: Single: H-1 Form A, Z-1 Form C Double: 2H-2 Form A, 2Z-2 Form C 触点形式: 单线包: H-1组常开, Z-1组转换 双线包: 2H-2组常开, 2Z-2组转换	

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

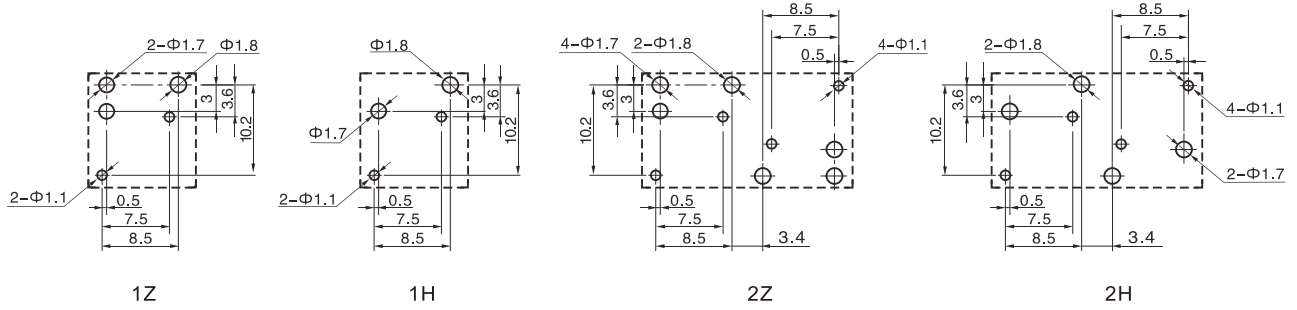


Undimensioned tolerance: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm  
未标注尺寸公差: <1mm: ±0.2mm 1~5mm: ±0.3mm >5mm: ±0.4mm

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



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



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

TYPICAL USE 典型用途

- Cooling fan control, Oil Mercury control, Heating control, Automotive air conditioning, Rear window fog remover, Battery circuit breaker.
- Head/fog control, Power distribution, Traction control, ABS.
- 冷却风扇控制, 油汞控制, 加热控制, 汽车空调, 后窗除雾器, 电池断路装置。
- 大灯/雾灯控制, 电力分配, 牵引控制系统, 防抱死制动。

PERFORMANCE CHART 性能曲线图

