


特点 Features:

- 触点容量: 40A触点切换能力
Contact switching capability:40A.
- PCB 端子
PCB terminals
- 高防震, 防冲击能力
Highly shockproof and anti-impact performance

触点参数 CONTACT DATA

型号	Model	YQ502
触点形式	Contact Arrangement	1A、1B、1C
接触电阻	Contact Resistance	50mΩ Max.
触点材料	Contact Material	银合金 Silver Alloy
额定负载(阻性)	Contact Rating (Res.Load)	40A 14VDC
最大切换电流	Max. Switching Current	40A
最大切换电压	Max. Switching Voltage	30VDC
最大切换功率	Max. Switching Power	560W
机械寿命	Mechanical endurance	1x10 ⁷ 次 OPS
电气寿命	Electrical endurance	1x10 ⁵ 次 OPS

性能参数 CHARACTERISTICS

吸合时间(额定电压下)	Operate Time (at nomi.volt.)	6ms Max.
释放时间(不带二极管)	Release Time (without diode)	3ms Max.
绝缘电阻	Insulation Resistance	100MΩ Min.(500VDC)
介质耐压	Dielectric Strength	触点与触点间 Between Open Contacts : 500VAC, 50/60Hz 1 min.
		触点与线圈间 Between Coil & Contacts: 500VAC, 50/60Hz 1 min.
抗振性	Vibration resistance	误动作 Functional: 10~55Hz 双振幅 1.5mm (DA)
		耐久 Destructive: 10~55Hz 双振幅 1.5mm (DA)
抗冲击	Shock resistance	误动作 Functional: 10G Min.
		耐久 Destructive: 100G Min.
环境温度	Ambient Temperature	-40°C~+125°C (不冷凝 No condensation)
重量	Unit Weight	约 Approx. 20.0g

线圈参数 COIL DATA (at 23°C)

额定电压 Rated voltage (VDC)	额定电流 Rated current ±10%(mA)	线圈电阻 Coil resistance ±10%(Ω)	最大连续外加电压 Max allowable voltage VDC (Max.)	吸合电压 Operate voltage VDC (Max.)	释放电压 Release voltage VDC (Min.)	额定功率 Rated coil power (W)
12	133.3	90	额定电压的 of rated voltage 150 %	额定电压的 of rated voltage 70 %	额定电压的 of rated voltage 10 %	约 approx. 1.6
24	66.7	360				

订货标记示例 ORDERING INFORMATION

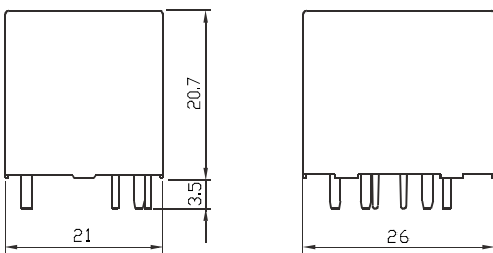
YQ502	-S	-1	12	D	M	U	2	
轭铁脚形式 Yoke Terminal Arrangement : 无-3个轭铁脚, 2-两个轭铁脚 Nil-3 yoke terminals, 2-2 yoke terminals								
端子形式 Terminal Arrangement : U-美国脚位, E-欧洲脚位 U-USA footprint, E-Europe footprint								
触点形式 Contact form : 无-转换, M-常开, B-常闭; Nil-Form C, M-Form A, B-Form B								
线圈功耗 Coil power : D-1.6 W								
线圈规格 Coil voltage : 12,24 (VDC)								
触点组数 Number of poles : 1-1组 1-1 Group								
封装形式 Protective construction : S-塑封式 S-Flux proofed								
基本型号 Type designation : YQ502								

外形尺寸、接线图、安装孔位图 (单位: mm)

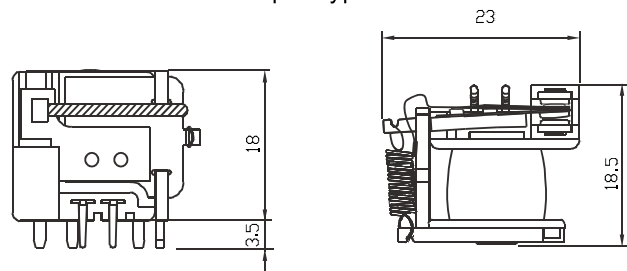
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT (Unit: mm)

外形尺寸 Outline Dimensions

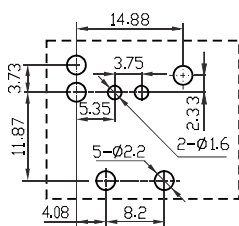
塑封型
Plastic Sealed type



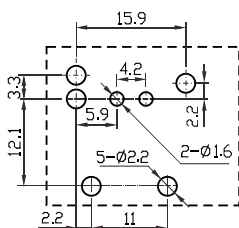
敞开型
Open type



安装孔位图 (底视图)
PCB Layout (Bottom View)

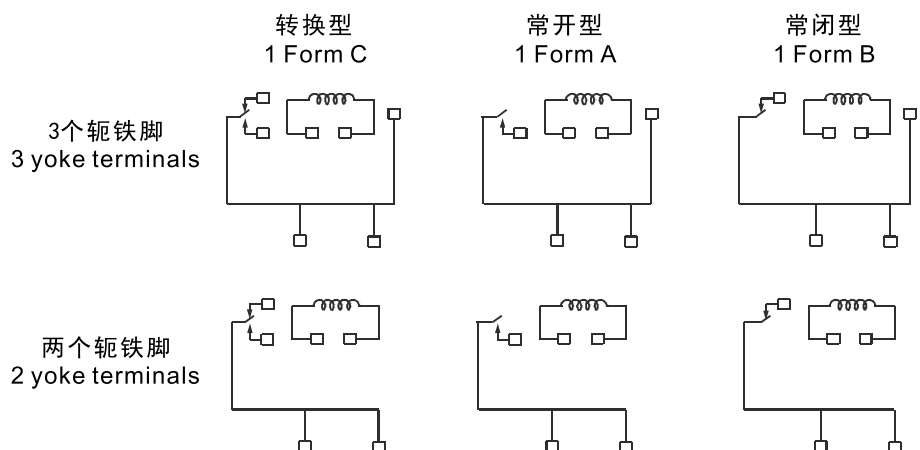


美国脚位(U)
USA footprint (U)



欧洲脚位(E)
Europe footprint (E)

接线图 (底视图)
Wiring Diagram (Bottom View)

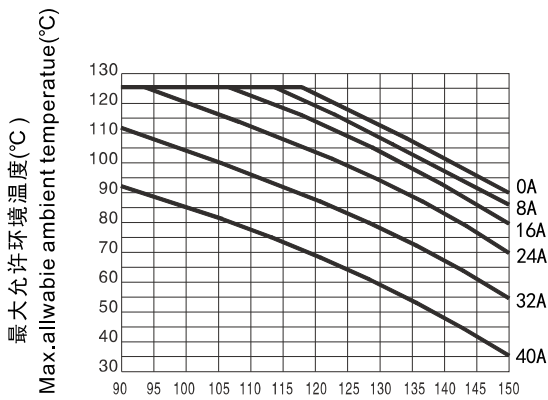


注 Remark :

- 未标注尺寸公差 Unmarked dimensional tolerance
 $\leq 1\text{mm}: \pm 0.2\text{mm}$; $(1\sim 5)\text{mm}: \pm 0.3\text{mm}$; $\geq 5\text{mm}: \pm 0.4\text{mm}$.
- 安装孔尺寸公差: $\pm 0.1\text{mm}$.
 The tolerance of PCB layout is always: $\pm 0.1\text{mm}$.
- 引出脚尺寸为预焊前尺寸.
 Extended terminal dimension is dimension before soldering.

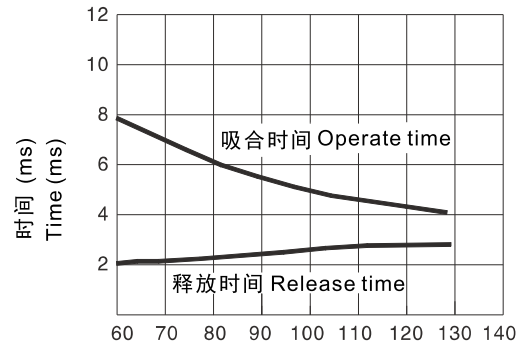
性能曲线图 CHARACTERISTIC CURVES

环境温度与线圈电压关系图
Ambient temperature vs. coil voltage



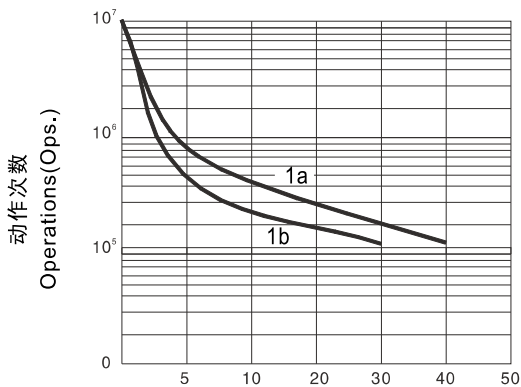
线圈电压额定值百分比
% of Nominal Coil Voltage

释放时间/吸合时间
Operate time/Release time



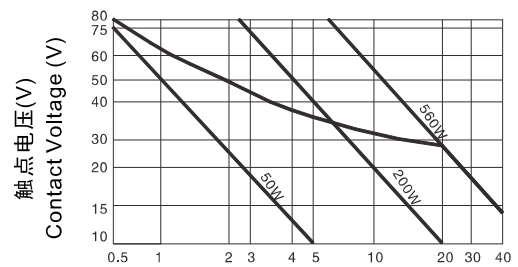
线圈电压额定值百分比
% of Nominal Coil Voltage

寿命曲线
Endurance Curve



触点电流(A)
Contact Current(A)

阻性负载下常开触点的灭弧能力
Anti-arc capability of N.O. Contacts with Res. Load



触点电流(A)
Contact Current(A)