

NRL709GK 磁保持继电器/Magnetic Latching Relay



◆ 特点 Characteristic

- > 100A 触点切换能力；

> 线圈功耗小、温升极低；

> 触点接触电阻小，电接触稳定性好；

> 抗冲击、抗振动能力强；

> 外形尺寸：104×46.2×22mm；

> 符合IEC62052-31 UC3标准

> 100A switching capability.

> Low coil consumption, ultra-low temperature rise.

> Low contact resistance.

> Strong anti-shock and anti-vibration capability.

> Outline size:104×46.2×22mm.

> IEC62052-31 UC3 Compliant.

◆ 订货标记 Ordering Information

NRL 709GK - 12 - D - 100 ① ② ③ ④ ⑤	①	磁保持继电器代号 Latching Relay
	②	产品型号 Part Number
	③	线圈电压 Coil Voltage
	④	D 表示双线圈，S 表示单线圈 D= Double Coil; S= Single Coil
	⑤	100=100A

◆ 性能 Characteristics

绝缘电阻 Insulation resistance		1000MΩ (500VDC)
介质耐压 Dielectric Strength	触点与线圈间 Between Coil & Contacts	4000VAC 1min
	断开触点间 Between Open Contacts	2000VAC 1 min
	触点组间耐压 Pole & Pole	4000VAC 1min
闭合时间 Operate Time		30msec. Max.
断开时间 Release Time		30msec. Max.
抗冲击 Shock resistance	稳定性 Functional	98m/S ²
	强度 Destructive	980m/S ²
振动 Vibration resistance		10~55Hz 1.5mm
湿度 Humidity		5%~85%RH
温度范围 Ambient temperature		-40~+85℃
引出端方式 Temination		快连接式 Fast connection
重量 Unit weight		200g
封装形式 Constrution		防尘罩 Dust protected

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触点参数 Contact Data

触点形式 Contact form	3A/3B
触点材料 Contact material	AgSnO2
接触电阻 Contact resistance (1A 6VDC) 测试点离外壳5mm处 (Test point within 5mm distance from the casing)	Max: 1.0 mΩ
触点负载 Contact Rating	100A 250VAC
最大转换电流 Max. Switching Current	100A
最大转换电压 Max. Switching Voltage	277VAC
最大转换功率 Max. Switching Power	27700VA
机械寿命 Mechanical life	1×10 ⁵
电气寿命 Electrical life (阻性负载 Resistive)	1×10 ⁴

电耐久性 Electrical Endurance (@ rated coil voltage)

UC等级 UC Class	电压 Voltage (Uc)	电流 Current (Ic)	接通/断开时间 ON/OFF time (second)	功率因素 Power Factor	电耐久性 Electrical Endurance (ops)
UC3	230VAC	100A	10s on /20s off	COS ∅ =1 COS∅ =0.5	5000 5000 (Total:10000)

线圈 Coil

线圈功耗 Coil power	单线圈:5.0W 双线圈: 10.0W Single coil:5.0W Double coil: 10.0W
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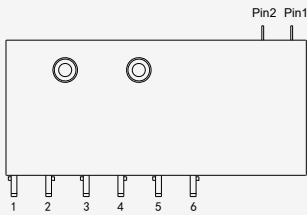
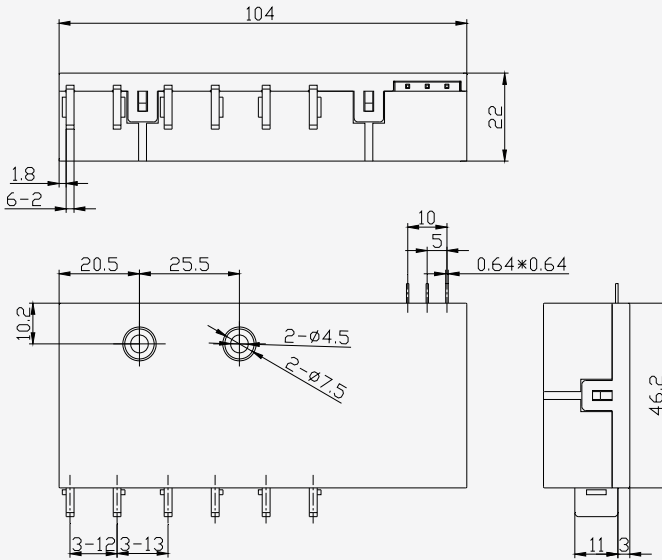
线圈参数 Coil Data

额定电压 (VDC) Rated Voltage	动作电压 (VDC) Pick-up voltage	脉冲宽度 (ms) Pulse Duration	线圈电阻 (Ω) Coil Resistance
单线圈 Single coil			
6	≤ 4.5	≥ 100	7.2±10%
9	≤ 6.8	≥ 100	16.2±10%
12	≤ 9	≥ 100	28.8±10%
24	≤ 18	≥ 100	115.2±10%
双线圈 Double coil			
6	≤ 4.5	≥ 100	2×3.6±10%
9	≤ 6.8	≥ 100	2×8.1±10%
12	≤ 9	≥ 100	2×14.4±10%
24	≤ 18	≥ 100	2×57.6±10%

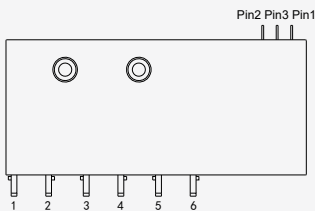
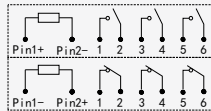
备注：如需其它额定电压，可特殊定货。
Note: Special ordering for other coil voltage.

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◆ 尺寸图 Dimensions(mm)/ 接线图 Circuit Diagram



单线圈 Single Coil



双线圈 Double Coil

