

NRL709ED 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、抗振动能能力强；
- > 外形尺寸：42×37×21.5mm；
- > 符合 IEC62055-31 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: 42×37×21.5mm.
- > Customized terminals like shunt, braided Cu-wire etc.
- > IEC62055-31 UC3 Compliant

◆ **订货标记 Ordering Information**

NRL	709ED	-	12	-	S	①	磁保持继电器代号 Latching Relay
①	②		③		④	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

◆ **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 1min
闭合时间 Operate Time		20msec. Max.
断开时间 Release Time		20msec. Max.
抗冲击 Shock resistance	稳定性 Functional	100m/S ² (10g)
	强度 Destructive	1000m/S ² (100g)
振动 Vibration resistance		10~55Hz 1.5mm
湿度 Humidity		98%RH ,40°C
温度范围 Ambient temperature		-40 ~ +70°C
引出端方式 Termination		PCB
重量 Unit weight		65g
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	1A/1B
触点材料 Contact material	AgSnO2
接触电阻 Contact resistance	Max: 1.0mΩ
触点负载 Contact Rating	100A 250VAC
最大转换功率 Max. Switching Power	25000VA
机械寿命 Mechanical life	5×10^5
电气寿命 Electrical life	1×10^4

◆ 线圈 Coil

线圈功耗 Coil power	单线圈 : 2.3W 双线圈 : 4.6W Single coil: 2.3W Double coil: 4.6W
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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			
9	6.75	50	$16.2 \pm 10\%$
12	9	50	$60 \pm 10\%$
24	18	50	$250 \pm 10\%$
48	36	50	$1000 \pm 10\%$
双线圈 Double coil			
9	6.75	50	$2 \times 8.1 \pm 10\%$
12	9	50	$2 \times 30 \pm 10\%$
24	18	50	$2 \times 125 \pm 10\%$
48	36	50	$2 \times 500 \pm 10\%$

备注：如需其它额定电压，可特殊定货。

Note: Special ordering for other coil voltage.

◆ 典型应用 Typical Application

1) 主要用于 IC 卡预付费电表，集中抄表系统；
Prepayment Energy Meter; AMR System;

2) 也用于复合开关、家电和自动控制装置。

Compound Switch; Automatic Control System.

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

