

NRL709B 磁保持继电器 /Magnetic Latching Relay



◆ **特点 Characteristic**

- > 体积小，80A 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：38×33×17mm；
- > 可根据客户要求焊接分流器和连接铜线。
- > Small size, 80A switching capability.
- > Low coil consumption, ultra-low temperature rise.
- > Low contact resistance.
- > Strong anti-shock and anti-vibration capability.
- > Outline size: 38×33×17mm.
- > Customized terminals like shunt, braided Cu-wire etc.

◆ **订货标记 Ordering Information**

| | | | | | | | | | |
|-----|------|---|----|---|---|---|----|---|---|
| NRL | 709B | - | 12 | - | S | - | 80 | ① | 磁保持继电器代号 Latching Relay |
| ① | ② | ③ | ④ | ⑤ | | | | | 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 80=80A |

◆ **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 | 1500VAC 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 | | 快连接式 Fast connection |
| 重量 Unit weight | | 45g |
| 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: 1.2mΩ |
| 触点负载 Contact Rating | 80A 250VAC |
| 最大转换功率 Max. Switching Power | 20000VA |
| 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 : 1.5W 双线圈 : 3.0W Single coil: 1.5W Double coil: 3.0W |
|-----------------|--|

◆ 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 | 54±10% |
| 12 | 9 | 50 | 96±10% |
| 24 | 18 | 50 | 384±10% |
| 48 | 36 | 50 | 1536±10% |
| 双线圈 Double coil | | | |
| 9 | 6.75 | 50 | 2×27±10% |
| 12 | 9 | 50 | 2×48±10% |
| 24 | 18 | 50 | 2×192±10% |
| 48 | 36 | 50 | 2×768±10% |

备注：如需其它额定电压，可特殊定货。

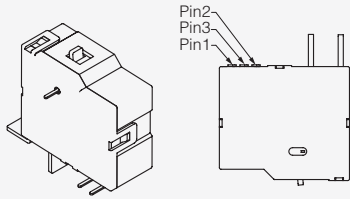
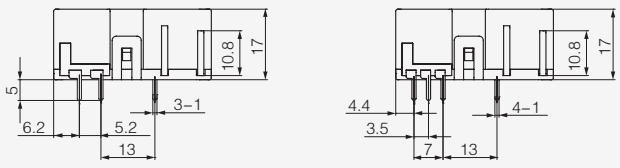
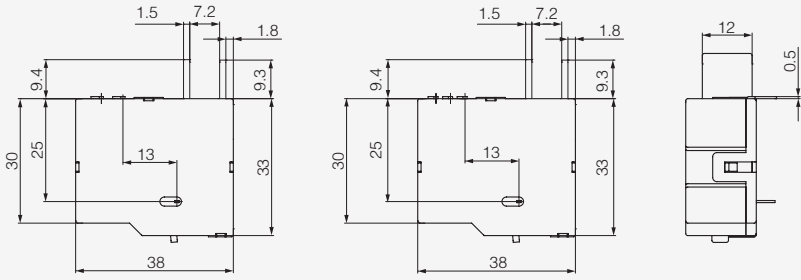
Note: Special ordering for other coil voltage.

◆ 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



单线圈 Single coil



双线圈 Double coil

