

NRL709BC-80A 磁保持继电器/Magnetic Latching Relay



◆ 特点 Characteristic

- > 体积小, 90A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;
- > 外形尺寸: 38×30×17mm
- > 符合IEC62052-31 UC2 标准;
- > Small size, 90A switching capability.
- > Low coil consumption, ultra-low temperature rise.
- > Low contact resistance.
- > Outline size: 38×30×17mm.
- > IEC62052-31 UC2 Compliant.

◆ 订货标记 Ordering Information

NRL	709BC	-	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 12KV 1.2us/50us
	断开触点间 Between Open Contacts	2000VAC 1min
闭合时间 Operate Time		15msec. Max.
断开时间 Release Time		15msec. 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%-98%RH
温度范围 Ambient temperature		-40~+85°C
引出端方式 Termination		PCB
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 (1A 6VDC) 测试点离外壳5mm处 (Test point within 5mm distance from the casing)	Max: 1.0mΩ
触点负载 Contact Rating	80A 250VAC
最大转换电流 Max. Switching Current	90A
最大转换电压 Max. Switching Voltage	277VAC
最大转换功率 Max. Switching Power	20000VA
机械寿命 Mechanical life	1×10 ⁵
电气寿命 Electrical life(Resistive)	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
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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	≥ 50	24±10%
9	≤ 6.8	≥ 50	54±10%
12	≤ 9	≥ 50	96±10%
24	≤ 18	≥ 50	384±10%
双线圈 Double coil			
6	≤ 4.5	≥ 50	2×12±10%
9	≤ 6.8	≥ 50	2×27±10%
12	≤ 9	≥ 50	2×48±10%
24	≤ 18	≥ 50	2×192±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) 也用于家电和自动控制装置。

Electrical Telecommunication, Auto Controlling.

电耐久性 ELECTRICAL ENDURANCE

UC 等级 Class	电压 Voltage (Uc)	电流 Current (Ic)	功率因素 Power Factor	接通/断开时间 Close Open time (s)	电耐久性 Electrical endurance (ops)
UC2	230VAC	60A	COSφ=1	10:20	5000
			COSφ=0.5		5000

备注：1) 电耐久性符合IEC62052-31试验要求，阻性试验后接着做感性试验。

Notes: 1) Electrical endurance meet IEC62052-31 test requirement. do

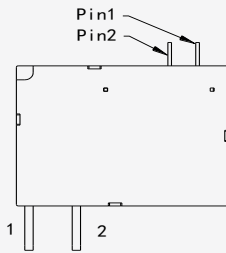
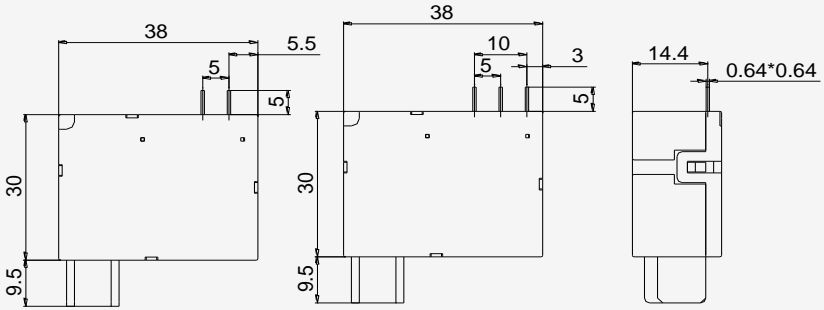
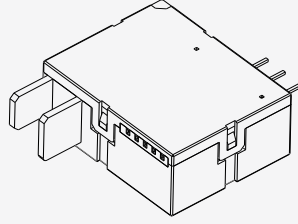
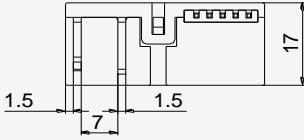
the inductive load test after the resistive load test.

2) 线圈额定电压驱动。

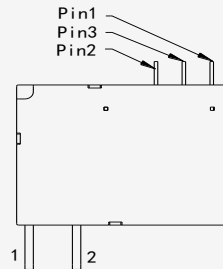
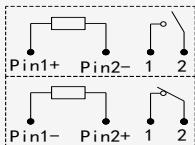
2) The line is driven by rated voltage

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



单线圈
Single Coil



双线圈
Double Coil

