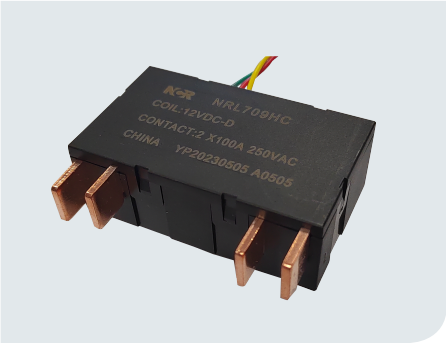


NRL709HC-100A 磁保持继电器/Magnetic Latching Relay



- ◆ 特点 Characteristic
- > 体积小，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：60.8×36×21mm；
 - > 符合IEC62055-31 UC3标准；
 - > Small size, 100A switching capability.
 - > Low coil consumption, ultra-low temperature rise.
 - > Low contact resistance.
 - > Strong anti-shock and anti-vibration capability.
 - > Outline size: 60.8×36×21mm.
 - > IEC62055-31 UC3 Compliant.

◆ 订货标记 Ordering Information

NRL 709HC - 12 - S - 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 1min
	触点组间耐压 Pole&Pole	4000VAC 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	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~+70℃
引出端方式 Termination		快连接式 Fast connection
重量 Unit weight		90g
封装形式 Constrution		防尘罩 Dust protected

触点参数 Contact Data

触点形式 Contact form	2A/2B
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: 0.8 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	25000VA
机械寿命 Mechanical life	1×10 ⁵
电气寿命 Electrical life (阻性负载 Resistive)	1×10 ⁴

线圈 Coil

线圈功耗 Coil power	单线圈 : 4.0W 双线圈 :8.0W Single coil: 4.0W Double coil: 8.0W
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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			
9	≤ 6.8	≥ 50	20±10%
12	≤ 9	≥ 50	36±10%
24	≤ 18	≥ 50	144±10%
48	≤ 36	≥ 50	576±10%
双线圈 Double coil			
9	≤ 6.8	≥ 50	2×10±10%
12	≤ 9	≥ 50	2×18±10%
24	≤ 18	≥ 50	2×72±10%
48	≤ 36	≥ 50	2×288±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.

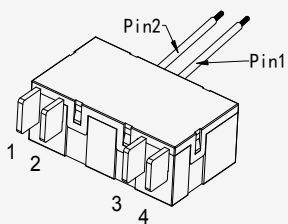
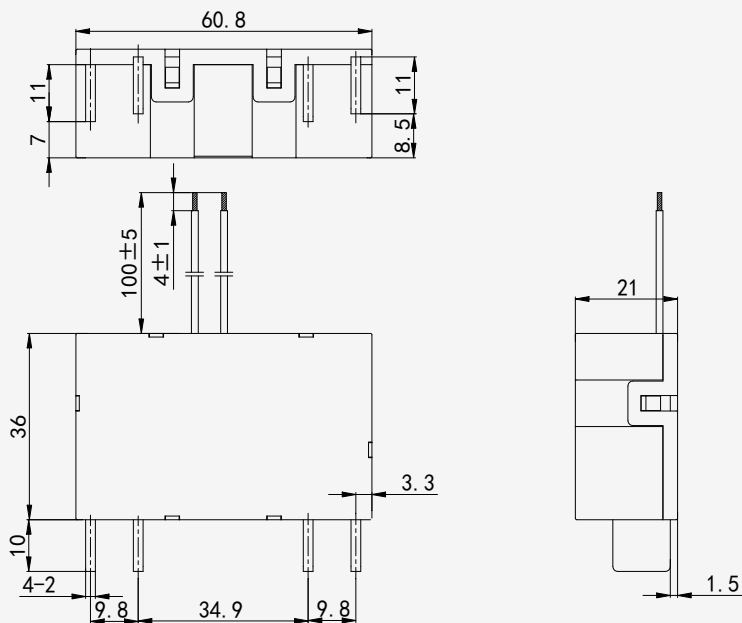
电耐久性 ELECTRICAL ENDURANCE

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)	
UC3	230VAC	80A	COSφ=1	10:20	5000	共 Total 10000
			COSφ=0.5		5000	

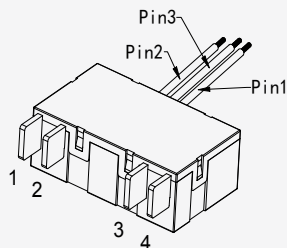
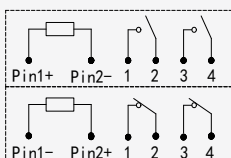
备 注： 1) 电耐久性符合IEC62052-31试验要求。阻性试验后接着做感性试验。
Notes: 1) Electrical endurance meet IEC62052-31 test requirement. do
the inductive load test after the resistive load test.
2) 线圈额定电压驱动。
2) The line is driven by rated voltage

NRL709HC-100A 磁保持继电器/Magnetic Latching Relay

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



单线圈 Single coil



双线圈 Double coil

