

NRL708C 磁保持继电器 /Magnetic Latching Relay



- ◆ 特点 Characteristic
- > 体积小，40A/50A 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：39×30.2×15mm；
 - > Small size, 40/50A switching capability.
 - > Low coil consumption, ultra-low temperature rise.
 - > Low contact resistance.
 - > Strong anti-shock and anti-vibration capability.
 - > Outline size: 39×30.2×15mm.

◆ 订货标记 Ordering Information

NRL708C-12S-1-50 ①②③④⑤	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	1= 1A/1B without test lever 2= 1A/1B with test lever 3= 1C without test lever 4= 1C with test lever
		50=50A , 40=40A

◆ 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		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%-85%RH
温度范围 Ambient temperature		-40~+85℃
引出端方式 Temination		PCB
重量 Unit weight		34g
封装形式 Constrution		防尘罩 Dust protected、密封型 Sealed



NRL708C 磁保持继电器 /Magnetic Latching Relay

◆ 触点参数 Contact Data

触点形式 Contact form	1A/1B / 1C
触点材料 Contact material	AgSnO2
接触电阻 Contact resistance(1A 6VDC)	1A/1B:Max: 2.0mΩ; 1C:Max: 4.0mΩ
触点负载 Contact Rating	1A/1B: 50A 250VAC; 1C: 40A 250VAC
最大转电流 Max. Switching Current	50A
最大转电压 Max. Switching Voltage	250VAC
最大转换功率 Max. Switching Power	1A/1B:12500VA; 1C:10000VA
机械寿命 Mechanical life	1×10 ⁵
电气寿命 Electrical life (阻性负载 Resistive)	1A/1B : 50A 1×10 ⁴ 1C : 40A 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
-----------------	--

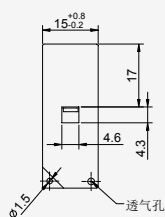
◆ 线圈参数 Coil Data

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			
6	≤ 4.5	≥ 50	24±10%
9	≤ 6.75	≥ 50	54±10%
12	≤ 9.0	≥ 50	96±10%
24	≤ 18.0	≥ 50	384±10%
双线圈 Double coil			
6	≤ 4.5	≥ 50	2×12±10%
9	≤ 6.75	≥ 50	2×27±10%
12	≤ 9.0	≥ 50	2×48±10%
24	≤ 18.0	≥ 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) 也用于复合开关、家电和自动控制装置。
Compound Switch; Automatic Control System.



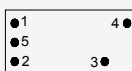
NRL708C 磁保持继电器 / Magnetic Latching Relay

◆ 接线图 Circuit Diagram

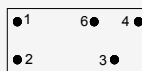
单线圈Single coil



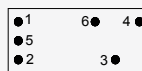
双线圈Double coil



单线圈Single coil



双线圈Double coil



正极性Positive polarity

常开型1 Form A

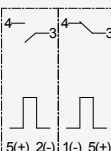
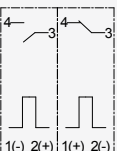
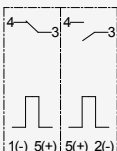
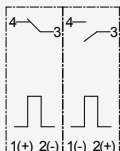
常闭型1 Form B

单线圈Single coil

双线圈Double coil

单线圈Single coil

双线圈Double coil



动作
set

复位
reset

动作
set

复位
reset

动作
set

复位
reset

动作
set

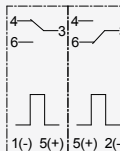
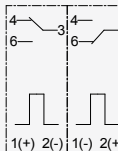
复位
reset

正极性Positive polarity

转换型1 Form C

单线圈Single coil

双线圈Double coil



动作
set

复位
reset

动作
set

复位
reset

负极性Negative polarity

常开型1 Form A

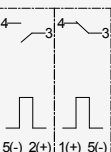
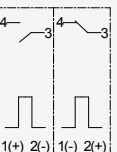
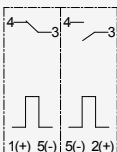
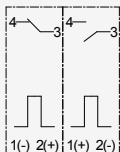
常闭型1 Form B

单线圈Single coil

双线圈Double coil

单线圈Single coil

双线圈Double coil



动作
set

复位
reset

动作
set

复位
reset

动作
set

复位
reset

动作
set

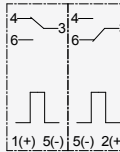
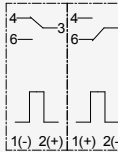
复位
reset

负极性Negative polarity

转换型1 Form C

单线圈Single coil

双线圈Double coil



动作
set

复位
reset

动作
set

复位
reset