NRL709EC-100A/120A 磁保持继电器/Magnetic Latching Relay

◆ 特点 Characteristic

> 体积小，100A/200A 触点切换能力；
> 线圈功耗小、温升极低；
> 触点接触电阻小，电接触稳定性能好；
> 抗冲击、抗振动能力强；
> 外形尺寸：52.0x43.0x21.0mm。
> Small size, 100A/200A switching capability.
> Low coil consumption, ultra-low temperature rise.
> Low contact resistance.
> Strong anti-shock and anti-vibration capability.
> Outline size: 52.0x43.0x21.0mm.

◆ 订货标记 Ordering Information

NRL ① 709EC ② - 09 ③ - S ④ 100 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= Double Coil; S= Single Coil
⑤	100=100A / 120=120A

◆ 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	98m/S ^{2} (10g)
	强度 Destructive	980m/S ^{2} (100g)
振动 Vibration resistance		10~55Hz 1.5mm
湿度 Humidity		95%RH ,40℃
温度范围 Ambient temperature		-40~+70℃
引出端方式 Temination		Fast connection
重量 Unit weight		75g
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.: 1.0 mΩ	
触点负载 Contact Rating	100A 250VAC	120A 250VAC
最大转换功率 Max. Switching Power	25000VA	30000VA
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

◆ 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	35±10%
12	9	50	63±10%
24	18	50	250±10%
48	36	50	1000±10%
双线圈 Double coil			
9	6.8	50	2x17.5±10%
12	9	50	2x31±10%
24	18	50	2x125±10%
48	36	50	2x500±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 Meters/Water Meters/Gas Meters
2) 也用于复合开关、家电和自动控制装置。
Electrial Telecommunication,Auto Controling

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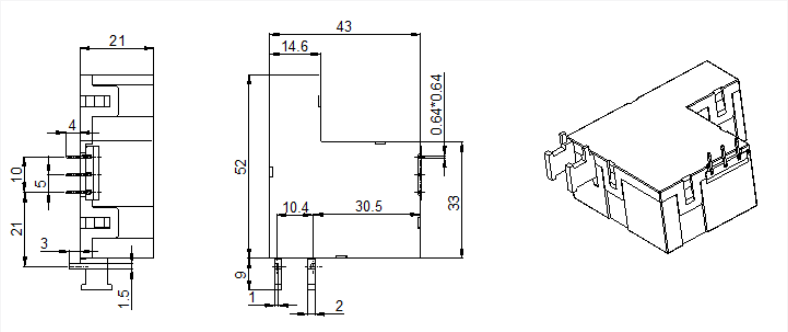
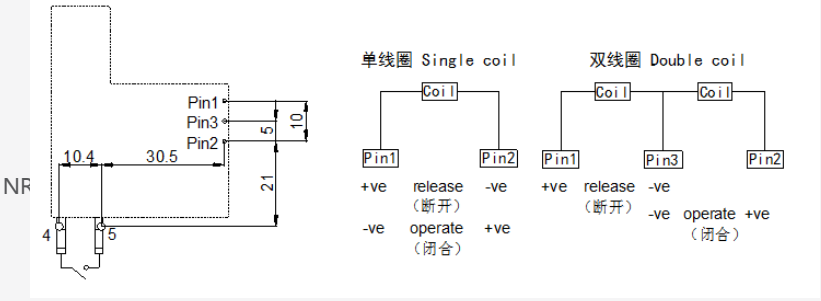
◆ 尺寸图 Dimensions(mm)/ 接线图 Circuit Diagram





Tmerms of use:

1、磁保持继电器出厂状态为触点闭合状态（复位状态），但因运输或继电器安装时受到冲击等因素的影响，可能会改变状态，因此在使用前有必要采取措施重新使其复位。
Default status of contacts is close(reset). But due to the collision during transportation or assembly, contacts status could be changed. So it's necessary to reset the contacts status before using.
2. 为了确保磁保持继电器可靠动作，施加到线圈上的激励电压须达到额定值，且脉冲宽度须达到动作时间的3倍以上。对于双线圈继电器，不要同时向两个线圈施加电压信号，也不要长时间（大于1分钟）向线圈施加电压，以防线圈过热损坏。
To ensure latching relay operate reliably, the energizing coil voltage must be reached rated value, and pulse duration must exceed 3 times of operate time. For two coil version, don't apply voltage to both coils and lasting long time (＞1min.), to avoid coil heating and damaged.