

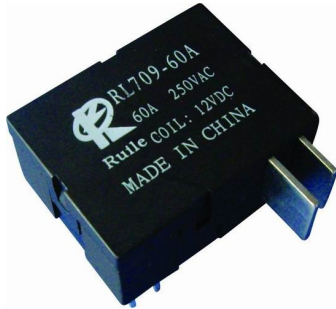


Industrial & Electrical Components

# Latching Relay

Part No.

NRL709A



- 60A switching capability.
- Low coil consumption and ultra-low temperature rise.
- Low contact resistance.
- High resistance to shocks and vibrations.
- Outline dimensions: 40.0x30.0x17.0mm.
- Custom-made busbar configuration.
- 1200A overload current carrying capability.

## CONTACT DATA

Contact Form	1A/1B
Contact Material	AgSnO2
Contact Resistance	Max.: 2.0 mΩ
Contact Rating (Resistive)	60A 250VAC
Max. Switching Power	15000VA
Max. Switching Voltage	250VAC
Max. Switching Current	60A
Mechanical Life	5×10 <sup>5</sup>
Electrical Life	1×10 <sup>4</sup>

## GENERAL DATA

Operate Time	20msec. Max.	
Break Time	20msec. Max.	
Shock Resistance	Functional	10G (100m/S <sup>2</sup> )
	Destructive	100G (1000m/S <sup>2</sup> )
Vibration resistance	10~55Hz 1.5mm	
Humidity	98%RH ,40°C	
Ambient temperature	-40~+70°C	
Termination	PCB	
Unit weight	Approx.38g	
Construction	Dust protected	

## COIL DATA

Coil Power	Single Coil: 1.0W		
	Double Coil: 2.0W		
Pulse Duration	50ms		
Action time	< 20ms		
Nominal Voltage (VDC)	Operate Voltage U1-U2 (VDC)	Coil Resistance (Ω ±10%)	
		Single Winding	Double Winding
9	6.8 - 13.5	81	40.5
12	9.0 - 18.0	144	72
24	18.0 - 36.0	576	288
48	36.0 - 72.0	2304	1152

## INSULATION

Insulation Resistance	1000MΩ(500VDC)	
Dielectric Strength	Coil & Contacts	4000VAC 1 min.
	Open Contacts	1500VAC 1 min
Creepage & clearance distance	5.2mm	

## ORDERING INFORMATION

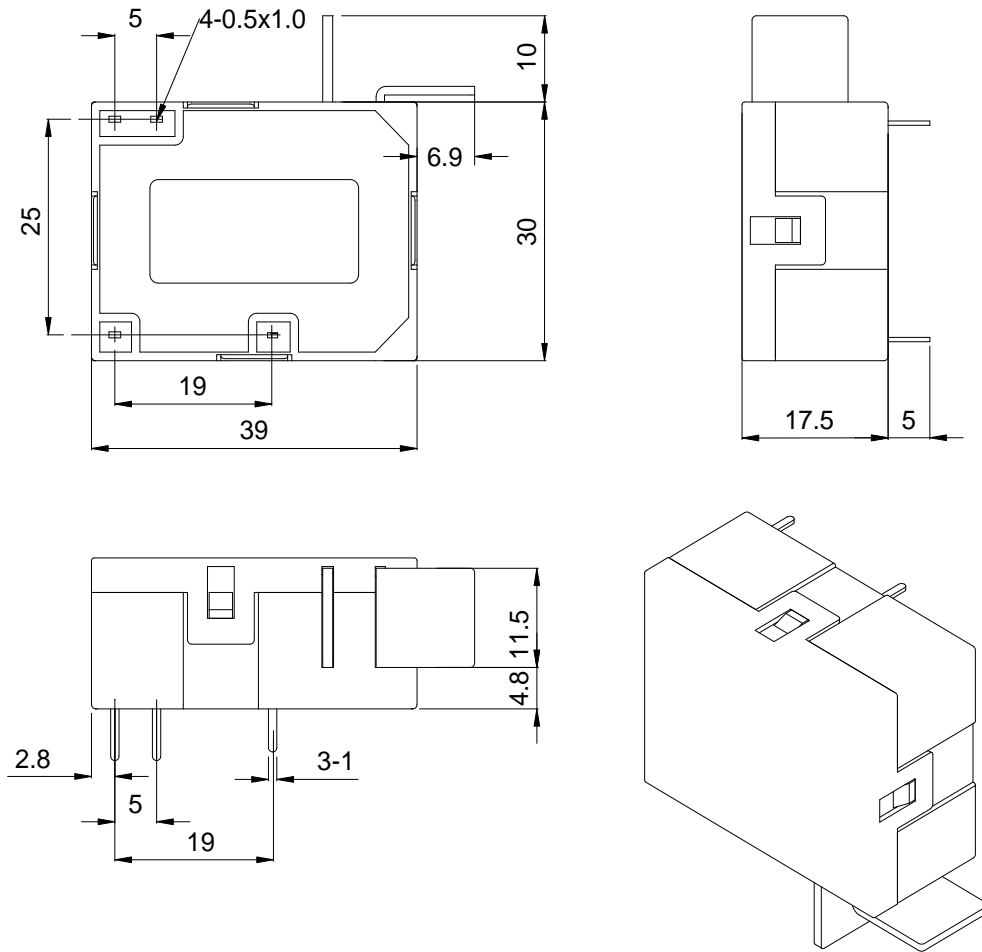
**NRL 709A - 12 S**

①      ②      ③      ④

- ① Series: Latching Relay
- ② Part No.
- ③ Coil voltage: 12=12VDC, 24D=24VDC
- ④ Winding: S=Single coil; D=Double coil

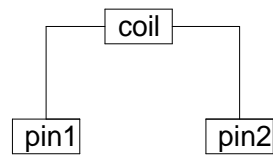
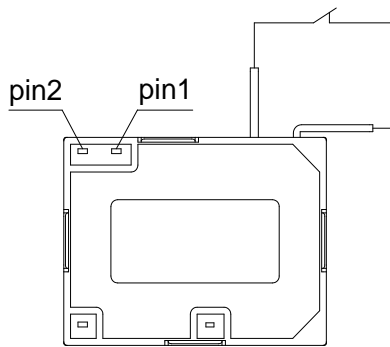
**DIMENSIONS**

Unit: mm



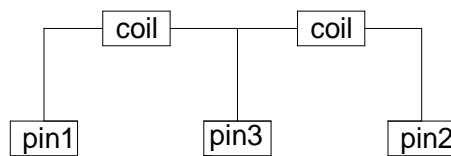
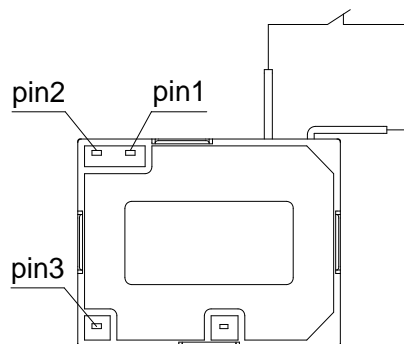
**DIAGRAM SCHEMATIC**

Single coil



+ve Operate -ve  
-ve Break +ve

Double coil



+ve Operate -ve  
-ve Break +ve

EXAMPLE BUSBAR CONFIGURATION

