

## SH619-100&amp;120A

## HIGH POWER LATCHING RELAY



## Features:

- Switching Current: 100A, 120A
- Switching Voltage: 250VAC max
- Switching power: 25000VAmax @100A  
30000VA max @120A
- 3000A peak current/10ms, contact won't be welded
- 6000A peak current/10ms without explosion
- Dielectric Strength: 4kV/1min  
(between coil and contacts)
- RoHS Compliance, UC3 Approval
- Dimensions (mm): 52.5\*43.2\*21.5

## Contact Specifications

1. Contact Form: 1A (Release), 1B (Operate)  
**Default Form**
2. Contact Material: AgSnO<sub>2</sub>
3. Contact Resistance:  
≤2.0 mΩ (1A/6VDC)

## Characteristics:

AMBIENT TEMP.	-40°C ~ +70°C	
AMBIENT HUMIDITY	≤75%RH	
VIBRATION RESISTANCE	10-55Hz, 0.5mm (Double Amplitude)	
SHOCK RESISTANCE	98m/s <sup>2</sup>	
RELATIVE HUMIDITY	45%~85%	
INSULATION RESISTANCE	1000 M Ω (500VDC)	
DIELECTRIC STRENGTH	BETWEEN CONTACTS	2000 VAC 50/60Hz (1 minute)
	BETWEEN CONTACT & COIL	4000 VAC 50/60Hz (1 minute)
Electrical Life	≥1 × 10 <sup>4</sup> OPS	
Mechanical Life	≥5 × 10 <sup>5</sup> OPS	
PICK-UP TIME (At rated Voltage):	≤50ms	
RELEASE TIME (At rated Voltage):	≤50ms	
Bounce Time:	≤2ms	
Construction:	DUST protected	
N.W. per unit:	Approx. 86g	

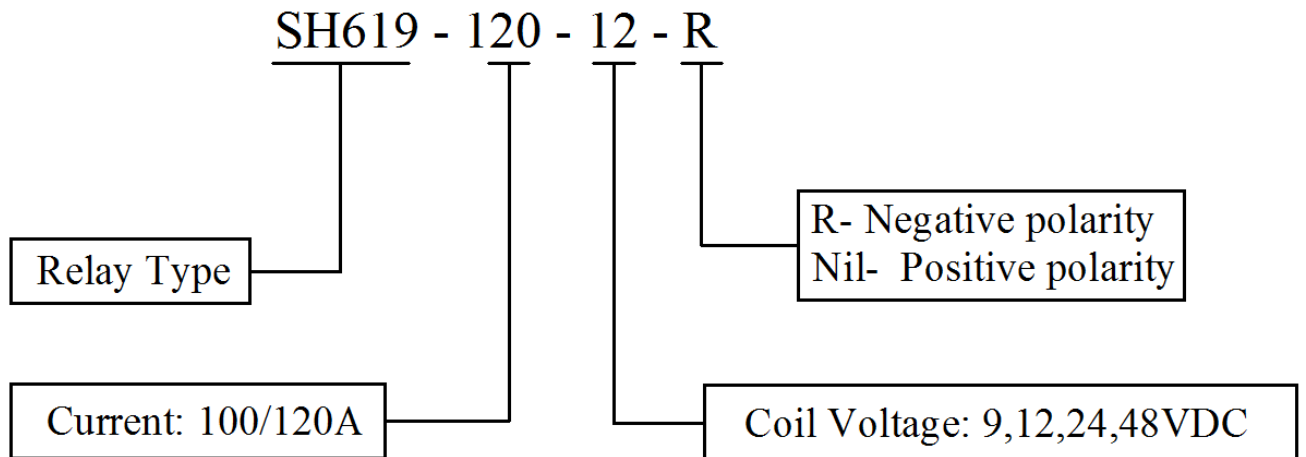
## Coil Data (23°C)

Rated Voltage (VDC)	Pick-up Voltage (VDC)	Pulse Duration (ms)	COIL RESISTANCE X (1 ± 10%) Ω	
			Single Coil Latching	Double Coil Latching
9	6.75	80	40.5	Single Coil Latching
12	9	80	72	
24	18	80	288	
48	36	80	1152	
9	6.75	80	20	Double Coil Latching
12	9	80	36	
24	18	80	144	
48	36	80	576	
Coil Power Consumption: Single coil 2.0W, Double Coil 4.0W				

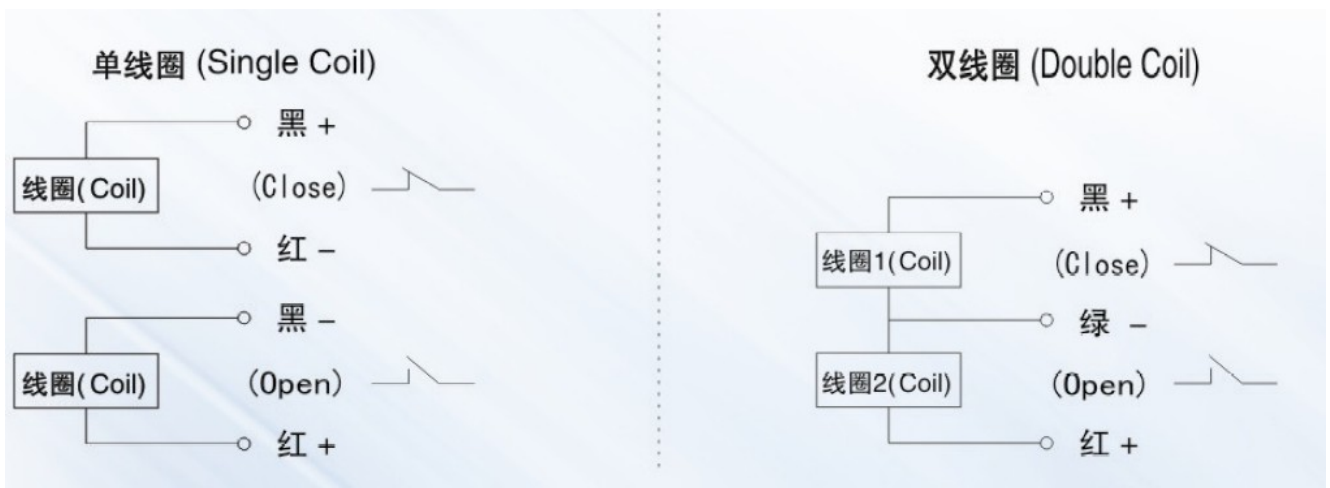
## NOTICE:

1. Relay is on the "release" or "operate" status when being released from stock, with the consideration of shock risen from transit an relay mounting, relay would be changed to "operate" or "release" status, therefore, when application (connecting the power supply), please reset the relay to "operate" or "release" status on request.
2. In order to maintain "operate" or "release" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "operate" or "release" time. Do not energize voltage to "operate" coil and "release" coil simultaneously. And also long energized time (more than 1 min) should be avoided.

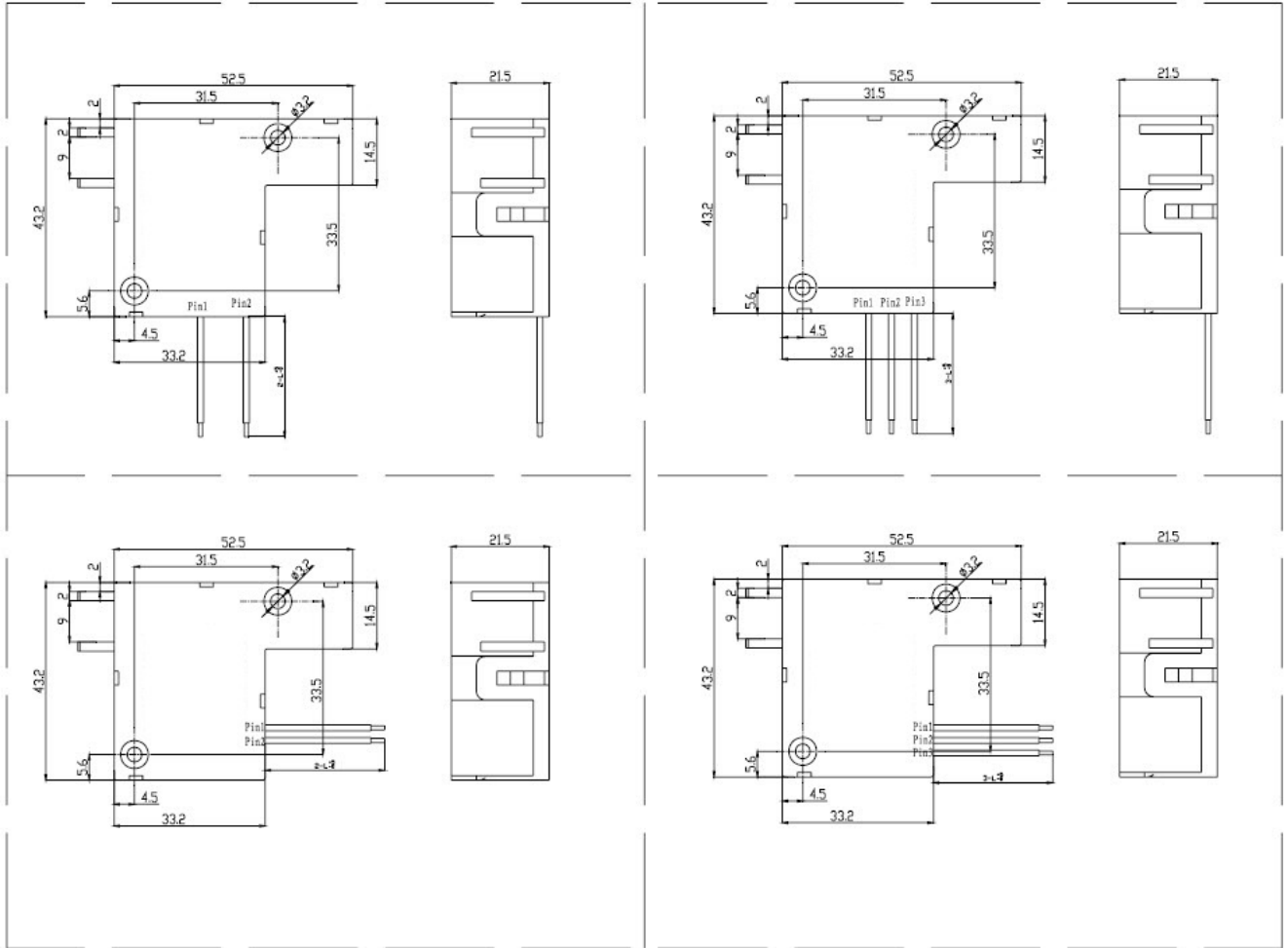
**Ordering Instruction:**



**Wiring Diagram:**



**Outline Dimensions (mm):**



Notice: Sample tested during initial release and after any redesign or process change that may affect parameter. Specification is subject to change without notice. Please ask for the newest product specification at any moment.