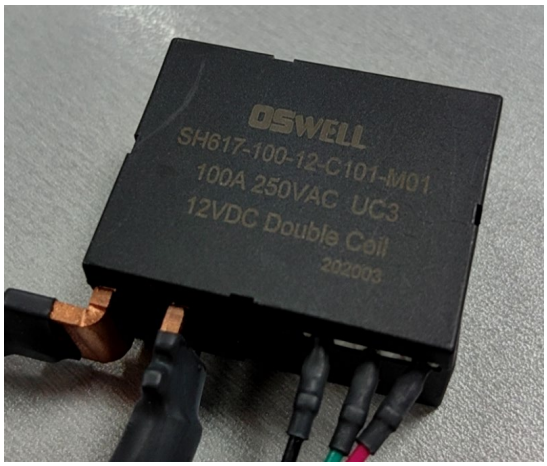
SH617-100A

HIGH POWER LATCHING RELAY



Features:

Switching Current: 100A max
Switching Voltage: 250VAC max
Switching power: 25000VA max
Dielectric Strength: 4kV/1min
(between coil and contacts)
RoHS Compliance
Dimensions (mm): 39×30×18.5

Contact Specifications:

1. Contact Form: 1A(Release), 1B(Operate)
Default Form
2. Contact Material: $AgSnO_2$ / Cu
3. Contact Resistance:
≤2 mΩ（1A/6VDC）

Characteristics:

AMBIENT TEMP.		-40℃～+70℃
VIBRATION RESISTANCE		10-55Hz, 0.5mm (Double Amplitude)
SHOCK RESISTANCE		98m/s^2 , 11ms
RELATIVE HUMIDITY		45%~85%
INSULATION RESISTANCE		1000 MΩ (500VDC)
DIELECTRIC STRENGTH	BETWEEN CONTACTS	2000VAC 50/60Hz (1 minute)
	BETWEEN CONTACT & COIL	4000 VAC 50/60Hz (1 minute)
Electrical Life		≥1 x 10^{4}OPS
Mechanical Life		≥5 x 10^{5}OPS
PICK-UP TIME (At rated Voltage): ≤50ms		
RELEASE TIME (At rated Voltage): ≤50ms		
Bounce Time: ≤2ms		
Construction: DUST protected		
N.W. per unit:		

Coil Data (20℃):

Rated Voltage (VDC)	Pick-up Voltage (VDC)	Pulse Duration (ms) Min	COIL RESISTANCE X (1±10%) Ω	
9	6.48	80	Single Coil Latching	54
12	8.64	80		96
24	17.28	80		384
48	34.56	80		1536
9	6.48	80	Double Coil Latching	27
12	8.64	80		48
24	17.28	80		192
48	34.56	80		768
Coil Power Consumption: Single coil 1.5W Double Coil 3.0W				

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.

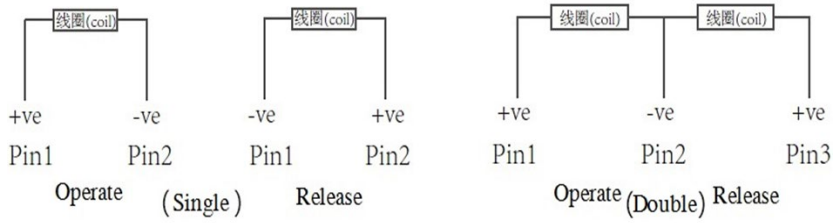
Ordering Instruction:

SH617 - 100 - 12 - 2 - H - R - S

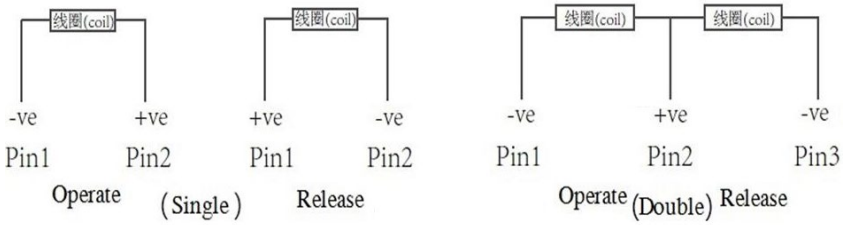
- Relay Type
- Current: 100A
- Coil Voltage: 6,9,12,24VDC
- Coil Type: 1 - Single Coil; 2 - Double Coil
- Contact Form: H - 1 from A (Release); Nil - 1 from B (Operate)
- R- Negative polarity; Nil- Positive polarity
- S - Shunt; C - CT

Wiring Diagram:

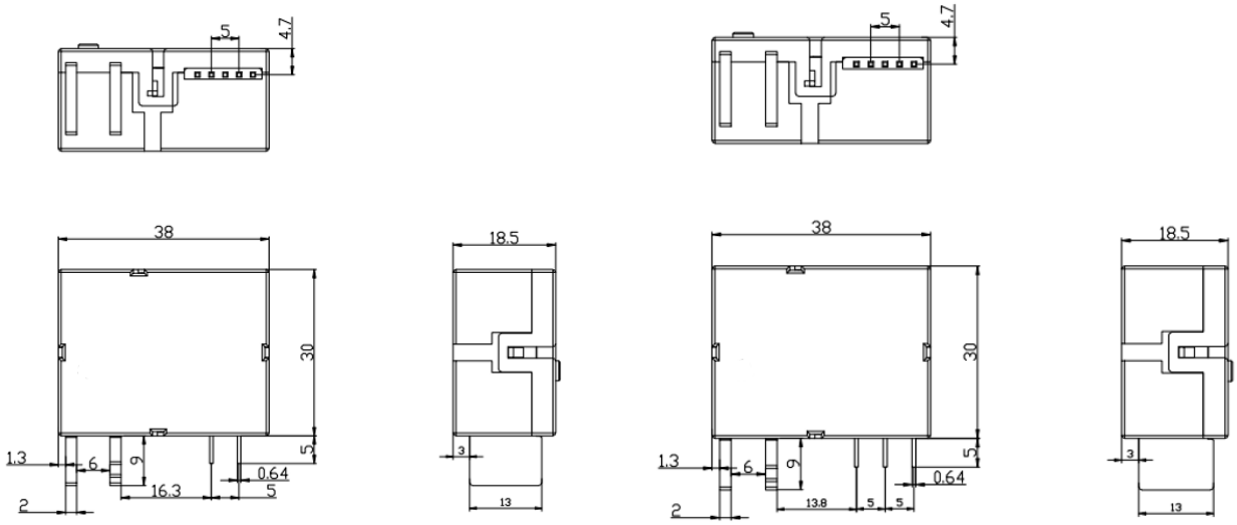
Positive Polarity



Negative Polarity



Outline Dimensions (mm):



Single Coil **Double Coil**