



### Character:

- Only impulse excitation is needed, both for single and double coil.
- Low power consumption with great load capability.
- Accessories can be welded upon customers' requirement
- Dimension: 120×54×34(mm)

### Contact parameter

Contact form	3B	
Contact resistance	Max.1.0mΩ(1A 6VDC)	
Contact material	Silver alloy	
Contact rating (resistive load)	100A 250VAC	
Max. Switching Voltage	380VAC	
Max. Switching Current	100A	
Max. Switching Power	25KVA	
Life	Mechanical life	5×10 <sup>5</sup> OPS
	Electrical life	5×10 <sup>3</sup> OPS
Max. Short-circuit current	3000A/10ms	

### Performance parameter

Operate Time	60ms Max	
Release Time	60ms Max	
Relative humidity	45%-90%RH	
Dielectric strength	Coil&contact	4000VAC 50/60Hz(1Min)
	Between opencontacts	2000VAC 50/60Hz(1Min)
	Between contacts	4000VAC 50/60Hz(1Min)
Insulation resistance	1000MΩ Min.(500VDC)	
Ambient temperature	-40°C~+70°C	
Impulsion	98m/s <sup>2</sup>	
Vibration	10-55HZ,1.5mm	
Weight(without accessories)	380g	

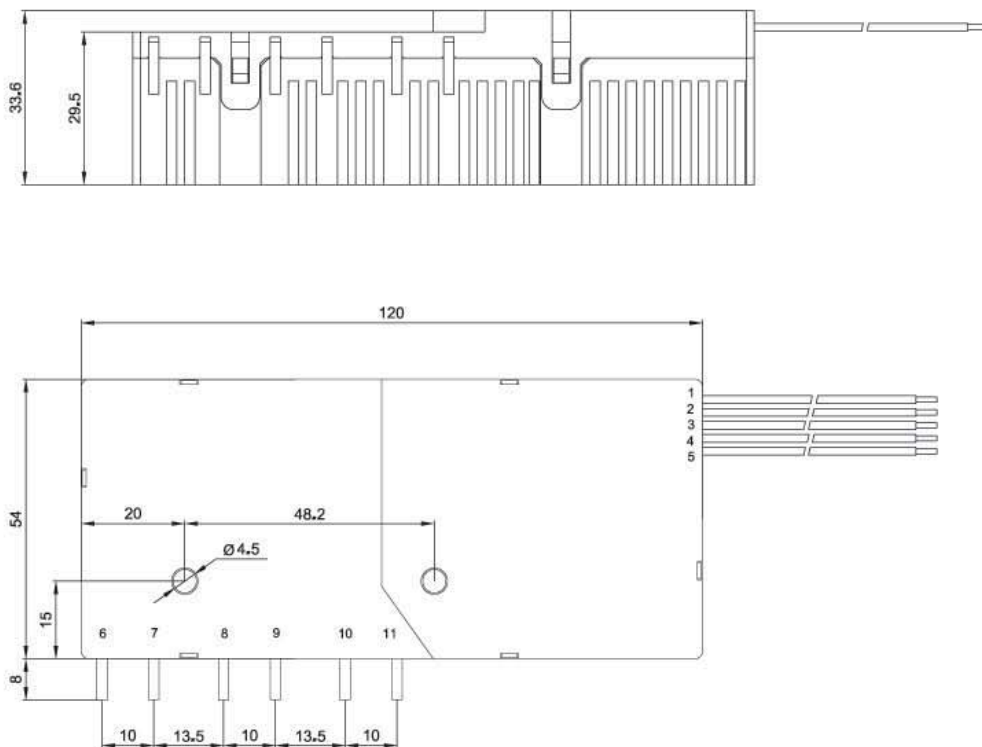
### Coil parameter(20°C)

Rated coil (VDC)	Coil resistance(Ω)±10%		Coil power (W)		Operate voltage (VDC)	Release voltage (VDC)	Over voltage (VDC)	Impulse duration (ms)
	Single coil	Double coil	Single coil	Double coil				
9VDC	32.4	16.2/16.2	2.5W	5.0W	≤75%	≤75%	≤150%	≥180ms
12VDC	57.6	28.8/28.8						
24VDC	230.4	115/115						
48VDC	922	460/460						
100VDC	4000	2000/2000						

## Ordering information

HRT3S-100A	100A	3B	12VDC	S	
					Coil type: S:single coil D:double coil
					Coil voltage: 9,12,24V
					Contact form: 3B:three sets of contacts remain closed
					Contact current : 100A
					Type: HRT3S-100A

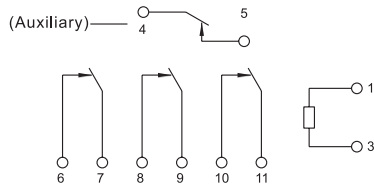
## Dimension , wiring diagram(unit:mm)



Note : No tolerance marked. When dimension is  $\leq 1$ mm, the tolerance shall be  $\pm 0.2$  ; when dimension is 1-5mm, the tolerance shall be  $\pm 0.3$  ; when dimension is  $> 5$ mm, the tolerance shall be  $\pm 0.5$ .

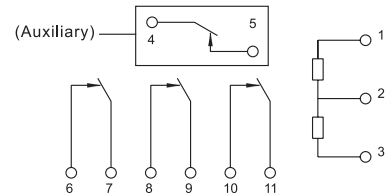
## Schematic diagram of a typical specification(unit:mm)

### Single coil

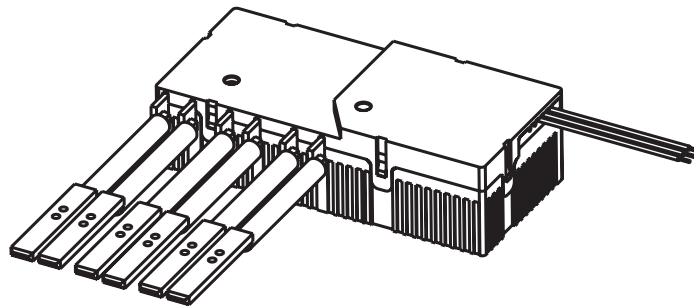


1(+)  
3(-) 4-5, 6-7, 8-9, 10-11 Release (Open)  
3(+)  
1(-) 4-5, 6-7, 8-9, 10-11 Operate (Close)  
4-5 Auxiliary test contacts (Optional Choice)

### Double coil



1(+)  
2(-) 4-5, 6-7, 8-9, 10-11 Release (Open)  
3(+)  
2(-) 4-5, 6-7, 8-9, 10-11 Operate (Close)  
4-5 Auxiliary test contacts (Optional Choice)



## Typical application

- smart meter
- electric remote control
- power composite switch
- leakage protection

## Notice

- 1、 The factory default of the contacts is to stay closure (reset), It's possible that the status will be changed with impact during shipment or installation. Please make sure the status of the contacts stay reset before using.
- 2、 To guarantee the latching relay operates reliably, the excitation voltage to coil should meet the rated value and impulse duration needs to exceed 3 times of the operation time. For double coil type latching relay, please neither apply voltage signal to both coils at the same time nor apply with long time (over 1 min).
- 3、 Latching relays without copper braided wires, the loaded PIN can neither be tin soldered nor be wrenched. Rigid fixing of the two pins is also not allowed.
- 4、 Magnetic latching relay is polarized relay. If customer needs different kinds of polarity from the data sheet, please inform us.
- 5、 Please handle the latching relays with care during factory's incoming-inspection and when put in use, do not let the relay drops which will impact the parameter. Please make strict distinction between relay made for.