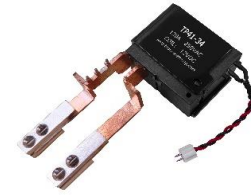


### Features

- It applied in electronic energy meter.
- 120A Switching Capability.
- Dimension: 43.0×37.0×22.0(mm).
- Low Coil Power Consumption.
- Environment protection(ROSH Compliant).



### TP41-34-120A

### Ordering information

	TP41	34	120	12	B	D
Latching relay						
Part number						
Rated current: 120A						
Coil voltage: 9VDC,12VDC,18VDC,24VDC,48 VDC						
Contact form B: Normal closed						
S: Single coil D: Double coil						

### Contact parameters

Contact form	1A 1B
Contact resistance <sup>(1)</sup>	≤1.0 mΩ (1A、6VDC)
Contact materials	AgSnO <sub>2</sub>
Rated load	120A/250VAC
Max switching voltage	250VAC
Max switching current	120A
Max switching Power	30000VA
Mechanical endurance	1×10 <sup>5</sup> ops

### Electrical endurance

Rated current	Rated voltage	PF	ON/OFF	Cycles
100A	250VAC	cosφ=1	10s:20s	5000
		cosφ=0.5	10s:20s	5000

Memo: (1) The above value is the initial value.

### Coil parameters

Rated coil power	Single: 2W double: 4W		
<b>Single coil</b>			
Rated voltage (VDC)	Operation voltage range (VDC)	Impulse width (recommended value) ms	Coil resistance (1±10%) Ω
6	≤4.8	≥50	18
9	≤7.2	≥50	40.5
12	≤9.6	≥50	72
24	≤19.2	≥50	288
<b>Double coil</b>			
Rated voltage (VDC)	Operation voltage range (VDC)	Impulse width (recommended value) ms	Coil resistance (1±10%) Ω
6	≤4.8	≥50	9+9
9	≤7.2	≥50	20.2+20.2
12	≤9.6	≥50	36+36
24	≤19.2	≥50	144+144

Performance parameters

Dielectric strength	Coil and Contact (1min)	4000VAC 50/60Hz
	Btw contacts (1min)	2000VAC 50/60Hz
Creepage distance		6.4mm
Close time (Rated voltage)		≤20ms
Recovery time (Rated voltage)		≤20ms
Insulation	Btw open contacts	1000MΩ (500VDC)
	Contact and coil	1000MΩ (500VDC)
Shock	Stability	98m/s <sup>2</sup>
	Strength	980m/s <sup>2</sup>
Vibration		10Hz~55Hz 1.5mm Double amplitude
Fault current making capacity (2.5KA)		Meet requirement
Short-circuit current carrying capacity (4.5KA)		Meet requirement

Humidity	5%~85%RH
Environment	-40°C~+85°C

Terminals	Coil pins	PCB mounting, quick connection
	Load terminals	quick connection
High temperature		85°C±2°C, 16H
Low temperature		-40°C±2°C, 2H
Sealing		Dust sealing

Dimensions ( Unit: mm)

