

Features

- It applied in electronic energy meter.
- Two pole 80A Switching Capability.
- Dimension: 61.0×36.0×21.0(mm).
- Low Coil Power Consumption.
- Environment protection(ROSH Compliant).



TP41-21-80A

Ordering information

	TP41	21	80	12	B	D
Latching relay						
Part number						
Rated current: 80A						
Coil voltage: 9VDC,12VDC,18VDC,24VDC,48 VDC						
Contact form B: Normal closed						
S: Single coil D: Double coil						

Contact parameters

Contact form	2A 2B
Contact resistance ⁽¹⁾	≤1.0 mΩ (1A、6VDC)
Contact materials	AgSnO ₂
Rated load	80A/250VAC
Max switching voltage	250VAC
Max switching current	80A
Max switching Power	20000VA
Mechanical endurance	1×10 ⁵ ops

Electrical endurance

Rated current	Rated voltage	PF	ON/OFF	Cycles
60A	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: 4W double: 8W	
Single coil			
Rated voltage (VDC)	Operation voltage range (VDC)	Impulse width (recommended value) ms	Coil resistance (1±10%) Ω
6	≤4.8	≥50	9
9	≤7.2	≥50	20.25
12	≤9.6	≥50	36
24	≤19.2	≥50	144
Double coil			
Rated voltage (VDC)	Operation voltage range (VDC)	Impulse width (recommended value) ms	Coil resistance (1±10%) Ω
6	≤4.8	≥50	4.5+4.5
9	≤7.2	≥50	10+10
12	≤9.6	≥50	18+18
24	≤19.2	≥50	72+72

Two pole 80A relay TP41-21

Latching relay technical data

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)		≤30ms
Recovery time (Rated voltage)		≤30ms
Insulation	Btw open contacts	1000MΩ (500VDC)
	Contact and coil	1000MΩ (500VDC)
Shock	Stability	98m/s ²
	Strength	980m/s ²
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)

