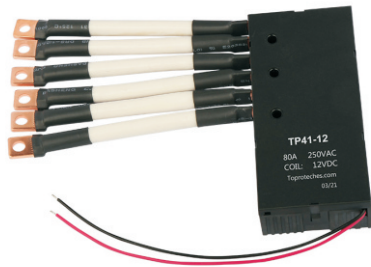## Three phase 80A latching Relay TP41-12

▶Description

- Three Phase 80A Switching Capability;
- Multi-layer blades, Low temperature rise;
- Low power Consumption;
- Environment protection (Comply with ROSH);

Ordering information

①	D: Double Coil S: Single Coil
②	Coil Voltage: 6,9,12,18,24,48 VDC
③	Contact Material: AgSnO$_2$
④	Part No.: Three phase 80A Switching
⑤	Type: Magnetic latching relay

Technical Data

▶Coil data

Rated coil voltage		6V. 9V. 12V. 24V. 48V.
Rated Power	Single Coil	2.5W
	Double Coil	5W
pulse Width		50 ms MAX
pulse time		〈50ms (at norminal voltage)

▶Contact data

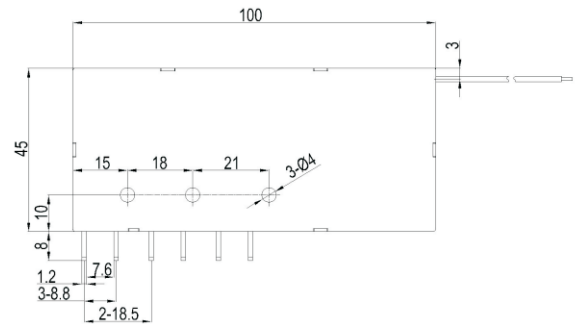| Contact Material:		AgSnO2
Contact arrangement:		3A(B)
Contact Resistance:		1.0mΩ Max.
Max. Switching Voltage:		250V
Max. Switching Current:		80A
Max. Switching Power:		17600VA
Life	Mechanical Life	1×10^{5} OPS
	Electrical Life	1×10^{4} OPS

Standard windings

Nominal voltage (VDC)	Operating voltage range MAX. (VDC)	Coil resistance (± 10%)/ (Ohm)
Single Winding		
6	4.8	14.4
9	7.2	32.4
12	9.6	57.6
24	19.2	230.4
48	38.4	921.6
Double Winding		
6	4.8	7.2+7.2
9	7.2	16.2+16.2
12	9.6	28.8+28.8
24	19.2	115.2+115.2
48	38.4	460.8+460.8

NOTE: Others norminal voltage required, special ordering allowed.

Characteristics

Insulation Resistance:		1000MΩ
Dielectric strength	Between Contact and Coil	4000V 1Min.
	Between Open Contact	1800V 1Min.
Creepage Distance:		8 mm
Shock Ristance:		147m/s2
Vabration Resistance:		10HZ-55HZ amplitude 1.5mm
Ambient Temperature:		-40℃...+85℃
Weight:		APPROX.180g
Contruction:		Dust protection

Outline dimensions and circuit diagram

Wiring diagram

+ve   −ve
Pin1   Pin2
Contact closed

−ve   +ve
Pin1   Pin2
Contact open

Wiring diagram

Coil   Coil
+ve   −ve   +ve
Pin1   Pin2   Pin3
Contact closed   Contact open
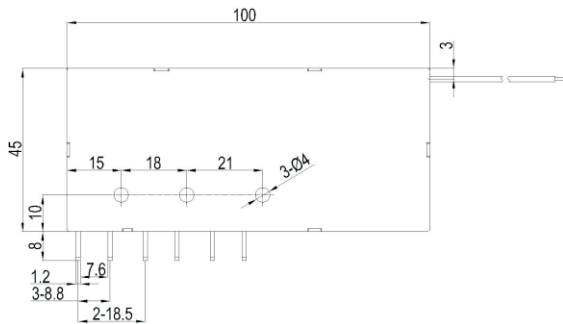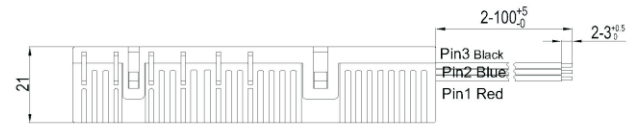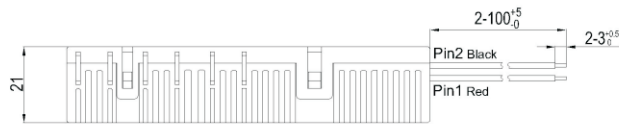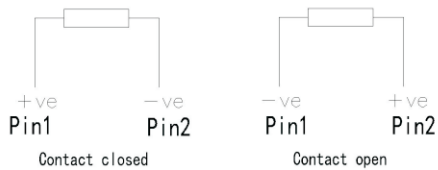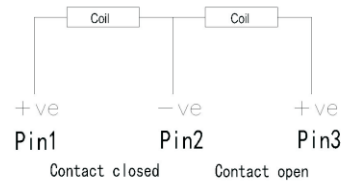
Remark: The tolerance didn't mark on drawings. When dimension is ≤1mm, the tolerance should be less than ±0. 2mm ; when dimension is between 1-5mm, the tolerance should be less than ±0. 3mm; When dimension is ≥5mm, the tolerance should be less than ±0. 5mm.

Note:
1. The default status of the relay contact is closed(Reset), it maybe change to "open" due to transit or relay mounting, please check the contact status when using, and reset the relay contact status on request if necessary.
2. In order to make sure the contact " open" or "closed" status, the excitation voltage should reach to rated voltage, but the excitation time should not over 1 minute. For double coil relay, do not apply the voltage to both coils at the same time.
3. The terminals relay without twisted copper cable can not be tin soldered, can not be wrenched too.
4. Please do not use the relay which has been tested for electrical endurance testing.