

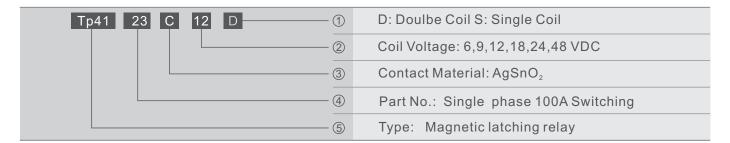
# Single phase 100A latching Relay TP41-23



### **▶** Description

- Single Phase 100A Switching Capability;
- Multi-layer blades, Low temperature rise;
- Environment protection (Comply with ROSH);
- Conform to IEC62055-31 UC<sub>3</sub>;

## Ordering information



### **Technical Data**

#### ▶ Coil data

Rated coil voltage		6V. 9V. 12V. 24V. 48V.	
Rated Power	Single Coil	2W	
	Double Coil	4W	
pulse Width		50 ms MAX	
pulse time		<30ms (at norminal voltage)	

#### ► Contact data

Contact Material:		AgSnO2	
Contact arrangement		1A(B)	
Contact Resistance		1.0mΩ Max.	
Max. Sw	itching Voltage:	253V	
Max. Sw	itching Current:	100A	
Max. Switching Power:		25300VA	
Life	Mechanical Life	1×10 <sup>5</sup> OPS	
	Electrical Life	1×10 <sup>4</sup> OPS	

# ► Standard windings

Nominal voltage (VDC)	Operating voltage range MAX. Coil resistant (VDC) $(\pm 10\%)/$ (Of	
Single Winding		
6	4.8	18
9	7.2	40.5
12	9.6	72
24	19.2	288
48	38.4	1152
Double Winding		
6	4.8	9+9
9	7.2	20+20
12	9.6	36+36
24	19.2	144+144
48	38.4	576+576

NOTE: Others norminal voltage required, special ordering allowed.

### **▶** Characteristics

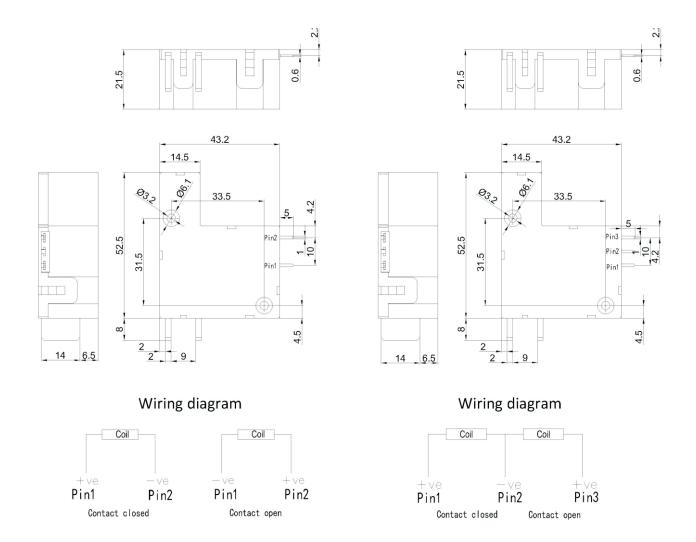
Insulation Resistance:		1000ΜΩ	
Dielectric strength	Between Contact and Coil	4000V 1Min.	
	Between Open Contact	2000V 1Min.	
Creepage Distance:		8 mm	
Shock Ristance:		147m/s2	
Vabration Resistance:		10HZ-55HZ amplitude 1.5mm	
Ambient Temperature:		-40℃+85℃	
Weight:		APPROX.85g	
Contruction:		Dust protection	

### ► Electrical Endurance

UC Class	Voltage (UC)	Current (IC)	Power factor	Close Open time(s)	Elect Enduran	
UC <sub>3</sub>	220VAC	100A	$cos\phi=1.0$ $cos\phi=0.5$	10:20	5000 Cycle 5000 Cycle	10000 Cycle

NOTE: Electrical endurance confirm to IEC62055-31 UC3 testing requirement, do the inductive load testing after the resistance load testing.

### Outline dimensions and circuit diagram



Remark: The tolerance didn't mark on drawings. When dimension is  $\leq$ 1mm, the tolerance should be less than  $\pm$ 0. 2mm; when dimension is between 1-5mm, the tolerance should be less than  $\pm$ 0. 3mm; When dimension is  $\geq$ 5mm, the tolerance should be less than  $\pm$ 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.