



27.4(43)×21.5(21)×35.7

# JQX-13F

UL E160644 R50126378  
CEC 10002045756

## Features

- Small size, light weight, heavy switching power.
- Optional mounting ways. With LED and with test button available.
- Firm structure, strong anti-shock & anti-vibration.
- Suitable for automatic control, telecommunication equipment, household electrical appliances and machinery electrical facilities.

## Ordering Information

**JQX-13F** **2C** **a** **DC12V** **1** **L**  
1 2 3 4 5 6

1 Part number: JQX-13F  
2 Contact arrangement: 2A:2A; 2B:2B;  
1C:1C; 2C:2C  
3 Terminal: a:plug in type; b:PCB type  
4 Coil rated voltage(V): AC: 6,12,24,36,48,110,120,220,240  
DC: 6,12,24,36,48,110

5 Cover: 1:1Mode; 2:2 Mode  
6 Coil transient suppression: L:with LED  
D:with diode  
LD:with LED & diode  
NIL:standard

## Contact Data

Contact Material		AgSnO <sub>2</sub> AgCdO	
Contact Arrangement		1C (SPDT(B-M))	2A (DPSTNO) 2B (DPSTNC) 2C (DPDT(B-M))
Contact Rating	Resistive	15A, 20A/277VAC,28VDC	10A/277VAC; 12A/250VAC,28VDC
	Motor Load	½HP 120VAC, 240VAC	½HP 120VAC, 240VAC; ½HP 125VAC
	Coil power	DC 0.9W AC 1.2VA	
Max. Switching Voltage		30VDC 300VAC	
Max. Switching Power		560W 5540VA	Max. Switching Current:20A
Contact Resistance		≤50mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance		1×10 <sup>5</sup>	Item 4.30 of IEC 61810-7
Mechanical Endurance		2×10 <sup>7</sup>	Item 4.31 of IEC 61810-7

## Coil Parameter(DC)

Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC (max) (80% of rated voltage )	Drop-out voltage VDC (min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
6	6.6	40	4.8	0.6	0.9	≤25	≤25
12	13.2	160	9.6	1.2			
24	26.4	640/650	19.2	2.4			
36	39.6	1440	28.8	3.6			
48	52.8	2600	38.4	4.8			
110	121	11000	88.0	11.0			

**Notes:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

## Coil Parameter(AC)

Coil voltage VAC		Coil resistance $\Omega \pm 10\%$	Rated current mA	Pick-up voltage VAC(max) (80%of rated voltage)	Release voltage VAC(min) (30%of rated voltage)	Coil power VA
Rated	Max.					
6	6.6	11.5	183	4.8	1.8	1.2
12	13.2	46	91	9.6	3.6	
24	26.4	184	46	19.2	7.2	
36	39.6	320	33	28.8	10.8	
48	52.8	735	24	38.4	14.4	
110	121	3900	11	88.0	33	
120	132	4550	9.8	96.0	36	
220	242	14400	5.5	176	66	
240	312	19000	4.2	192	72	

**Notes:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Characteristics

Insulation Resistance <sup>1)</sup>	1000M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength <sup>1)</sup> Between Open Contacts Between Contact and Coil	1000VAC 1min 1500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	98m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	8N 4N(PC type)	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~70℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	37g	Item 4.7 of IEC 61810-7

**Note:** 1). When testing, coil terminals should be connected , if LED is installed in relay .

## Safety Approvals

Safety approval	UL&CUR	TüV	CQC
Load	1C: 20A/277VAC, 28VDC 1/3HP120VAC, 240VAC 2A, 2B, 2C: 10A/277VAC; 12A/250VAC, 28VDC 1/2HP 125VAC 1/3HP 120VAC, 240VAC	10A/277VAC, 28VDC	10A/277VAC 10A/220VAC

# FORWARD RELAYS

