



28(43)×21.5×35.5

JQX-13F



<p>Features</p> <ul style="list-style-type: none"> Small size, light weight, heavy switching power. Optional mounting ways. Firm structure, strong anti-shock & anti vibration. Suitable for automatic control, telecommunication equipment, household electrical appliances and machinery electrical facilities.
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<p>Ordering Information</p> <p>JQX-13F 2C a DC12V 1 L</p> <p>1 Part number: JQX-13F 2 Contact arrangement: 2A:2A; 2B:2B; 1C:1C; 2C:2C 3 Terminal: a:inserting 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</p>	<p>5 Cover: 1:1Mode; 2:2 Mode 6 Coil transient suppression: L:with LED D:with diode LD:with LED & diode NIL:standard</p>
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Contact Data		AgSnO ₂ 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	1/3HP 120VAC,240VAC	1/3HP 120VAC,240VAC;1/2HP 125VAC
Max. Switching Voltage		30VDC 300VAC	
Max. Switching Power		560W 5540VA	Max. Switching Current:20A
Contact Resistance		≤50mΩ	Item 4.12 of IEC 61810-7
Operational Life	Electrical	1×10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	2×10 ⁷	Item 4.31 of IEC 61810-7

Dash numbers	Coil voltage V		Coil resistance Ω ± 10%	Pick-up voltage V(max) (80%of rated voltage)	Drop-out voltage V(min) (10%of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
006-900	6	6.6	40	4.8	0.6	0.9	≤25	≤25
012-900	12	13.2	160	9.6	1.2			
024-900	24	26.4	640/650	19.2	2.4			
036-900	36	39.6	1440	28.8	3.6			
048-900	48	52.8	2600	38.4	4.8			
110-900	110	121	11000	88.0	11.0			

CAUTION: 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.

Coil Parameter(AC)

Dash numbers	Coil voltage V		Coil resistance $\Omega \pm 10\%$	Rated current mA	Pick-up voltage V(max) (80% of rated voltage)	Release voltage V(min) (30% of rated voltage)	Coil power VA
	Rated	Max.					
006AC-1200	6	6.6	11.5	183.0	4.8	1.8	1.2
012AC-1200	12	13.2	46	91.0	9.6	3.6	
024AC-1200	24	26.4	184	46.0	19.2	7.2	
036AC-1200	36	39.6	320	33.0	28.8	10.8	
048AC-1200	48	52.8	735	24.0	38.4	14.4	
110AC-1200	110	121	3900	11.0	88.0	33.0	
120AC-1200	120	132	4550	9.8	96.0	36.0	
220AC-1200	220	242	14400	5.5	176	66.0	
240AC-1200	240	312	19000	4.2	192	72.0	

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
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Characteristics

Insulation Resistance ¹⁾	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Contacts Between Contact and Coil	50Hz 1000V 50Hz 1500V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	98m/s ² 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 $^{\circ}$ C~70 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	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	TUV
Load	1C:20A/277VAC,28VDC 1/3HP120VAC,240VAC 2A,2B,2C: 10A/277VAC,12A/250VAC,28VDC 1/2HP 125VAC 1/3HP120VAC,240VAC	10A/277VAC,28VDC

Dimensions

mm

1 model

2 model

a

Inserting type

b

PCB type

Leading end shape diagram

Dimensions

1C

2C

Wiring diagram (Bottom view)

1C

2C

Wiring diagram (Bottom view)

CAUTION: In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

Reference Data

Operate Time

Coil Temperature Rise

Endurance Curve