



**HESTORE.HU**

elektronikai alkatrész áruház

**EN:** This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).



1C,2C:28×21.5×35.5    3C:28×31.5×36    4C:28×41.5×36

# JQX-13F



## Features

- Small size, light weight, heavy reverse power.
- Optional mounting ways.
- 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 1A:1A 2A:2A 3A:3A; 1B:1B 2B:2B  
 3B:3B 1C:1C 2C:2C 3C:3C 4A:4A 4B:4B 4C:4C  
 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

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		AgCdO	AgSnO <sub>2</sub>		
Contact Arrangement		1A(1H) (SPSTNO) 1B (1D)(SPSTNC) 1C(1Z) (SPDT(B-M))	2A(2H) (DPSTNO) 2B(2D) (DPSTNC) 2C(2Z) (DPDT(B-M))	3A(3H)(SPSTNO) 3B(3D)SPSTNC) 3C(3Z)(3PDT(B-M))	4A(3H)(SPSTNO) 4B(3D)(SPSTNC) 4C(4Z)(4PDT(B-M))
Contact Rating	Resistive	15A, 20A/277VAC,28VDC    10A/277VAC, 12A250VAC,28VDC			
	Motor load	1/3 HP 120VAC 240VAC		1/3 HP 120VAC 240VAC 1/2HP 125VAC    1/2 HP 125VAC	
	Coil power	DC AC	0.9W 1.2VA	0.9W 1.2VA	1.4W 2VA    1.5W 2.5VA
Max. Switching Voltage		30VDC 300VAC			
Max. Switching Power		560W 5540VA		Max. Switching Current:20A	
Max. Resistance or Voltage drop		≤50m    Item 4.12 of IEC 61810-7			
Operational life	Electrical	10 <sup>5</sup> Item 4.30 of IEC 61810-7			
	Mechanical	2 10 <sup>7</sup> Item 4 .31 of IEC 61810-7			

## Coil Parameter DC

Dash numbers	Coil voltage V		Coil resistance ± 10%	Pick up voltage V(max) (80%of rated voltage)	Release voltage V(min) (10%of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max.						
006-900 012-900 024-900 036-900 048-900 110-900	6 12 24 36 48 110	6.6 13.2 26.4 39.6 52.8 121	40 160 640/650 1440 2600 11000	4.8 9.6 19.2 28.8 38.4 88.0	0.6 1.2 2.4 3.6 4.8 11.0	0.9	25	25
012-1400 024-1400 036-1400 048-1400 110-1400	12 24 36 48 110	13.2 26.4 39.6 52.8 121	107 410 926 1700 8500	9.6 19.2 28.8 38.4 88.0	1.2 2.4 3.6 4.8 11.0	1.4	25	25
012-1500 024-1500 036-1500 048-1500 110-1500	12 24 36 48 110	13.2 26.4 39.6 52.8 121	100 350 865 1600 6900	9.6 19.2 28.8 38.4 88.0	1.2 2.4 3.6 4.8 11.0	1.5	25	25

**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 $\pm 10\%$	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	
012AC-2000	12	13.2	24	167	9.6	3.6	2.0
024AC-2000	24	26.4	100	83	19.2	7.2	
036AC-2000	36	39.6	230	56	28.8	10.8	
048AC-2000	48	52.8	410	42	38.4	14.4	
110AC-2000	110	121	2300	18	88.0	33.0	
220AC-2000	220	242	8600	9.1	176	66.0	
240AC-2000	240	312	12100	6.2	192	72.0	
012AC-2500	12	13.2	20	208	9.6	3.6	2.5
024AC-2500	24	26.4	78	104	19.2	7.2	
036AC-2500	36	39.6	180	69	28.8	10.8	
048AC-2500	48	52.8	350	52.1	38.4	14.4	
110AC-2500	110	121	1600	22.7	88.0	33.0	
220AC-2500	220	242	6700	11.4	176	66.0	
240AC-2500	240	312	9120	9.8	192	72.0	

**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.

## Operation condition

Insulation Resistance <sup>1)</sup>	1000M min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength <sup>1)</sup> Between contacts Between contact and coil	50Hz 1000V 50Hz 1500V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	8N 4N(PC type)	IEC 68-2-21 Test Ua2
Solderability	260 5 5s 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40 ~70 ; -25 ~70 (3C,4C)	
Relative Humidity	85% (at 30 )	IEC 68-2-3 Test Ca
Mass	37g(1C,2C);50g(3C);70g(4C)	

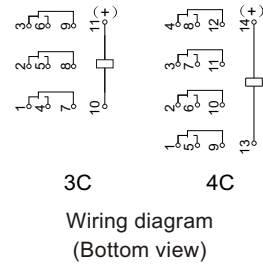
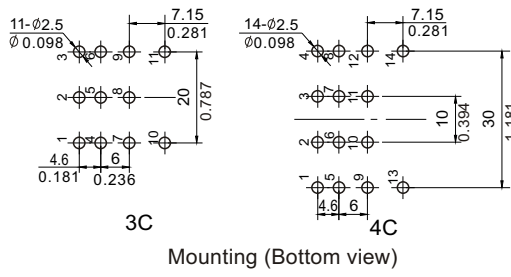
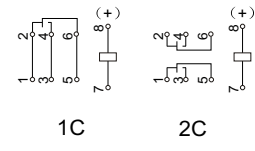
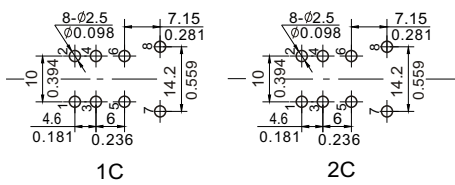
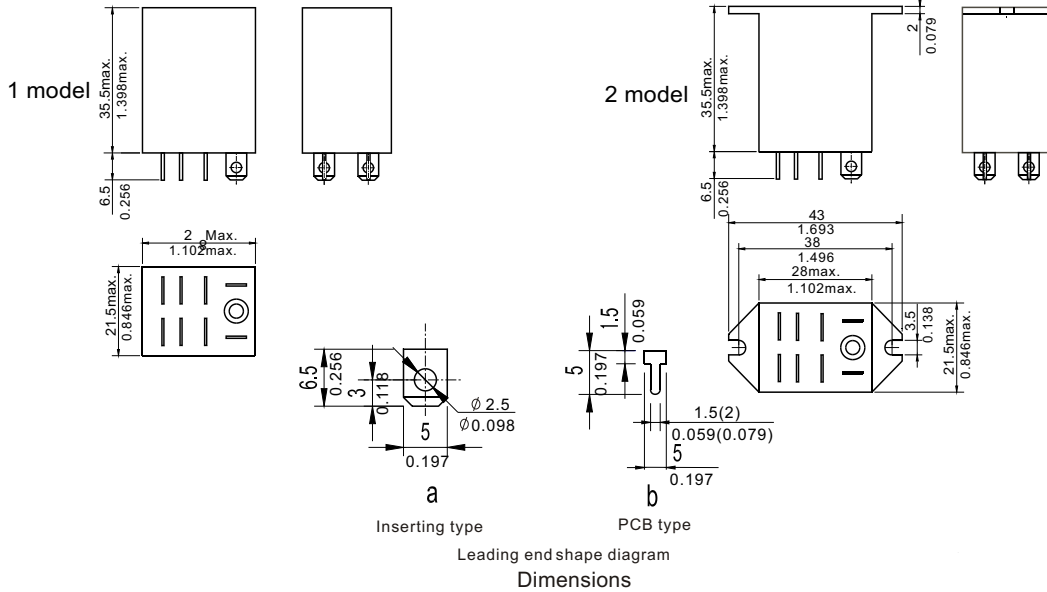
**Note:** 1). When testing, coil terminals should be connected , if LED is installed in relay .

## Safety approvals

Safety approval	UL&CUR	TüV	CQC
Load	1A,1B,1C:20A/277VAC,28VDC ½ HP120VAC,240VAC 2A,2B,2C,3A,3B,3C,4A,4B,4C: 10A/277VAC,12A/250VAC,28VDC ½ HP 125VAC 2A,2B,2C: ½ HP120VAC,240VAC	10A/277VAC,28VDC	10A/220VAC 10A/277VAC

## Dimensions

mm /inch



NOTES 1).Dimensions are in millimeters.  
2).Inch equivalents are given for general information only.

## Reference Data

