



30.5×16.0×23.5 30.5×16.0×26.5

J Q X - 1 0 2 F



CH0064847—2001



R2133344

Features

- Can be welded directly onto PCB.
- Used in household appliance like air conditioning , heater and instruments etc.

Ordering Information

JQX-102F A Z 20 b DC12V 0.9

1 2 3 4 5 6 7

- 1 Part number: JQX-102F

2 Contact arrangement: A:1A

3 Enclosure: Z: Dust cover
- 4 Contact rating: Resistive:20A/250VAC;

5 Terminal: b:PC type; NIL:PC type and QC type

6 Coil rated Voltage(V): DC:5,12,24,48

7 Coil power consumption: 0.9:0.9W

Contact Data

Contact Arrangement		1A (SPSTNO)	
Contact Material		Ag-SnO ₂	
Contact Rating(Resistive)		20A/250VAC	
Max. Switching Power		5000VA	
Max. Switching Voltage		300VAC	
Contact Resistance or Voltage drop		≤30mΩ (at 1A/14VDC)	
Operation life	Electrical	10 ⁵	
	Mechanical	2 × 10 ⁶	
		Max. Switching Current:20A	
		Item 3.12 of IEC255-7	
		Item 3.30 of IEC255-7	
		Item 3.31 of IEC255-7	

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (70%of rated voltage)	release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
005-900	5	6	27.8	3.5	0.5	0.9	≤20	≤10
012-900	12	14.4	160	8.4	1.2			
024-900	24	28.8	640	16.8	2.4			
048-500	48	57.6	2560	33.6	4.8			

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	1000M Ω min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 1500V	Item 6 of IEC255-5
Between contact and coil	50Hz 4500V	Item 6 of IEC255-5
	surge voltage:10kV	Item 8 of IEC255-5
Shock resistance	Functional:200m/s ² 11ms	
	Survival:1000 m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz	
	double amplitude Functional 1.5mm	IEC68-2-6 Test Fc
	double amplitude Survival 2.0mm	IEC68-2-6 Test Fc
Terminals strength	10N 8N	IEC68-2-21 Test Ua1 and Ua2
Solderability	235 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~55 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	
Mass	23g	IEC68-2-3Test Ca

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Safety approvals

Safety approval	TüV	CCEE
Load	20A/250VAC COS Φ =0.9	20A/250VAC

Dimensions (Unit: mm)

		mm	inch
		0.3	0.012
		0.5	0.020
		0.8	0.031
		1.4	0.055
		1.5	0.059
		1.8	0.071
		2	0.079
		3.2	0.126
		3.4	0.134
		3.5	0.138
		5.2	0.205
		6.2	0.244
		6.3	0.248
		6.4	0.252
		8.3	0.327
		8.4	0.331
		9.4	0.370
		10	0.394
		10.2	0.402
		12	0.472
		16	0.630
		18.4	0.724
		22	0.866
		23.5	0.925
		26.5	1.043
		27.6	1.087
		30.5	1.201

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