

# JQX-141FF



29×12.6×20.6

CQC 03001003502 R50126376 R50079107 UL US E158859

### Features

- Slim type and small occupying area can offer high density P.C.B. technique.
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Relay covers switching capacity from 10A to 20A.
- Switching capacity by 5A available with 2 transfer contact forms.

### Ordering Information

**JQX-141FF C S 10 DC12V 0.54 3.5**

1 2 3 4 5 6 7

1 Part number: JQX-141FF	4 Contact current: 5A,8A,10A,16A
2 Contact arrangement: 1A:1A; 2A:2A; 1C:1C; 2C:2C	5 Coil rated voltage(V): DC:3,5,6,9,12,24,48
3 Enclosure: S: Sealed type; Z: Dust cover	6 Coil power consumption: 0.54:0.54W; 0.72:0.72W
	7 Pole-distance: 3.5:3.5mm; 5:5.0mm

### Contact Data

Contact Arrangement	1A (SPSTNO) 2A (DPSTNO) 1C (SPDT (B-M)) 2C (DPDT(B-M))			
Contact Material	AgCdO AgSnO <sub>2</sub>			
Contact Rating	Contact Arrangement	1A,1C	1A,1C	2A,2C
	Resistive	16A/250VAC;30VDC 1A:20A/120VAC	10A/250VAC,30VDC	5A/250VAC,30VDC
Max. Switching Power	Resistive	480W 4000VA	300W 2500VA	150W 1250VA
	Inductive	240W 2000VA	150W 1875VA	90W 500VA
Max. Switching Voltage	125VDC 380VAC		Max. Switching Current:20A	
Contact Resistance or Voltage drop	≤100mΩ		item 4.12 of IEC 61810-7	
Operational life	Electrical	≤10 <sup>5</sup>		item 4.30 of IEC 61810-7
	Mechanical	≤10 <sup>7</sup>		item 4.31 of IEC 61810-7

### Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (80%of rated voltage)	Release voltage VDC(min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
003-540	3	3.9	17	2.4	0.15	0.54	<20	<8
005-540	5	6.5	47	4.0	0.25			
006-540	6	7.8	68	4.8	0.30			
009-540	9	11.7	155	7.2	0.45			
012-540	12	15.6	270	9.6	0.60			
024-540	24	31.2	1100	19.2	1.20			
048-540	48	62.4	4400	38.4	2.40			
003-720	3	3.9	12.5	2.4	0.15	0.72	<15	<8
005-720	5	6.5	36	4.0	0.25			
006-720	6	7.8	50	4.8	0.30			
009-720	9	11.7	115	7.2	0.45			
012-720	12	15.6	200	9.6	0.60			
024-720	24	31.2	820	19.2	1.20			
048-720	48	62.4	3300	38.4	2.40			

**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

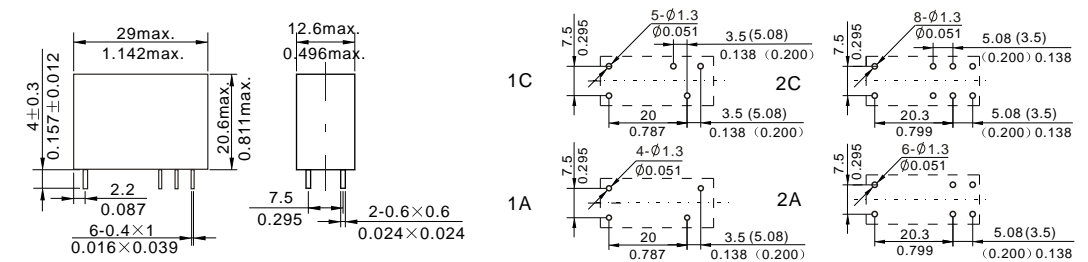
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	50Hz 1200V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 5000V	Item 6 of IEC 60255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10-50Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	0.54W:-30~70℃; 0.72W:-30~55℃	
Relative Humidity	85% (at 40℃)	IEC 68-2-3 Test Ca
Mass	13g	

### Safety approvals

Safety approval	UL&CUR	TüV	CQC
Load	NO: 16A/250VAC NC: 12A/250VAC	16A/250VAC,30VDC 2A,2C:5A/250VAC,30VDC	16A/250VAC

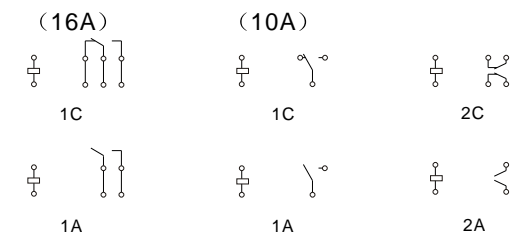
### Dimensions

mm /inch



Dimensions

Mounting (Bottom view)



Wiring diagram (Bottom view)

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