



29×12.6×20.6

JQX-141FF

03001003502 R50126376 R50079107 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 ₂			
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 ⁵		item 4.30 of IEC 61810-7
	Mechanical	≤10 ⁷		item 4.31 of IEC 61810-7

CAUTION: 1.For the intermediate current, it only applies to the room temperature.

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	0.72	<15	<8
003-720	3	3.9	12.5	2.4	0.15			
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 1000V	Item 6 of IEC 60255-5
Between contacts	50Hz 5000V	Item 6 of IEC 60255-5
Between contact and coil		
Shock resistance	100m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~50Hz double amplitude 1.5mm	IEC 68-2-6 TestFc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3s ± 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

The technical drawings include:

- Dimensions:** Shows the physical dimensions of the relay in millimeters and inches. Key dimensions include a width of 29mm (1.142 inches max), a height of 12.6mm (0.496 inches max), and a depth of 20.6mm (0.811 inches max).
- Mounting (Bottom view):** Shows the bottom view of the relay for different contact arrangements: 1C, 2C, 1A, and 2A. It includes terminal positions and dimensions such as 7.5mm, 0.295mm, and 0.051mm.
- Wiring diagram (Bottom view):** Shows the electrical connections for the 16A and 10A versions of the relay, including common (C), normally open (NO), and normally closed (NC) contacts.

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