

JQX-14FC₁ & JQX-14FC₂ (4124) JQX-14FC₃



29×12.8×26

03001003501
06001015773

E160644 R50126370

Features

- Heavy load, suitable for heavy power reverse.
- Small size, suitable for high-density mounting.
- Up to 5000VAC dielectric strength. Between open contacts of JQX-14FC₃ 3000VAC dielectric strength.
- Contact gap of JQX-14FC₃ :2×1.5mm=3mm.
- Suitable for remote control TV set, copy machine, sales machine and air conditioner etc.

Ordering Information

JQX-14FC₁ C S 10 DC12V 0.8 3.5

1 2 3 4 5 6 7

- | | |
|--|---|
| 1 Part number: JQX-14FC ₁ , JQX-14FC ₂ , JQX-14FC ₃ | 5 Coil rated voltage(V): DC:3,5,6,9,12,15,24,48 |
| 2 Contact arrangement: A:1A; 2A:2A; C:1C; 2C:2C | 6 Coil power consumption: NIL:0.53W; 0.8:0.8W; 1.2:1.2W |
| 3 Enclosure: S: Sealed type; Z: Dust cover | 7 Pole-distance: 3.5:3.5mm; 5:5.0mm |
| 4 Contact current: 3A,5A,6A,8A,10A,16A,20A | |

Contact Data

| | | |
|------------------------------------|--|---|
| Contact Arrangement | 1A (SPSTNO) , 2A (DPSTNO) , 1C (SPDT(B-M)) , 2C (DPDT(B-M)) | |
| Contact Material | AgCdO - AgSnO ₂ | |
| Contact Rating (resistive) | 1A:16A/250VAC,30VDC; 1C:10A,16A,20A/250VAC,30VDC; 10A/14VDC(20A Application for 5mm Pole-distance) 2A,2C:5A,8A/220VAC, 30VDC;JQX-14FC ₃ ;2A:8A/220VAC;2C:6A/220VAC Motor load:1HP 250VAC ; 1/2HP 125VAC Lamp load:TV-5 | |
| Max. Switching Power | 600W 5000VA | |
| Max. Switching Voltage | 110VDC 380VAC | Max. Switching Current:20A |
| Contact Resistance or Voltage drop | <50mΩ | Item 4.12 of IEC 61810-7 |
| Operation life | Electrical | 10 ⁵ Item 4.30 of IEC 61810-7 |
| | Mechanical | 10 ⁷ , 5×10 ⁶ (JQX-14FC ₃) Item 4.31 of IEC 61810-7 |
| Contact gap | 2×1.5mm=3mm (JQX-14FC ₃) | |

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% C ₁ C ₂ | Pick up voltage VDC(max) (75%of rated voltage) | Release voltage VDC(min) (10%of rated voltage) | Coil power consumption W C ₁ C ₂ | Operate Time ms C ₁ C ₂ | Release Time ms C ₁ C ₂ |
|--------------|------------------|------|---|--|---|---|--|--|
| | Rated | Max | | | | | | |
| 003-530 | 3 | 3.9 | 17 | 2.25 | 0.3 | 0.53 | <15 | <10 |
| 005-530 | 5 | 6.5 | 47 | 3.75 | 0.5 | | | |
| 006-530 | 6 | 7.8 | 68 | 4.50 | 0.6 | | | |
| 009-530 | 9 | 11.7 | 153 | 6.75 | 0.9 | | | |
| 012-530 | 12 | 15.6 | 275 | 9.00 | 1.2 | | | |
| 024-530 | 24 | 31.2 | 1100 | 18.0 | 2.4 | | | |
| 048-530 | 48 | 62.4 | 4350 | 36.0 | 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.

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% C ₃ | Pick up voltage VDC(max) (75%of rated voltage) | Release voltage VDC(min) (10%of rated voltage) | Coil power consumption W C ₃ | Operate Time ms C ₃ | Release Time ms C ₃ |
|--------------|------------------|------|--|---|--|--|-----------------------------------|-----------------------------------|
| | Rated | Max. | | | | | | |
| 2A | | | | | | | | |
| 006-670 | 6 | 7.8 | 54 | 4.50 | 0.6 | 0.67W~0.83W | <10 | <5 |
| 009-810 | 9 | 11.7 | 100 | 6.75 | 0.9 | | | |
| 012-800 | 12 | 15.6 | 180 | 9.00 | 1.2 | | | |
| 015-830 | 15 | 19.5 | 270 | 11.3 | 1.5 | | | |
| 024-780 | 24 | 31.2 | 740 | 18.0 | 2.4 | | | |
| 2C | | | | | | | | |
| 006-900 | 6 | 7.8 | 40 | 4.50 | 0.6 | 0.9W~1.25W | <10 | <5 |
| 009-1160 | 9 | 11.7 | 70 | 6.75 | 0.9 | | | |
| 012-1200 | 12 | 15.6 | 120 | 9.00 | 1.2 | | | |
| 015-1250 | 15 | 19.5 | 180 | 11.3 | 1.5 | | | |
| 024-1230 | 24 | 31.2 | 470 | 18.0 | 2.4 | | | |

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Operation condition

| | | | |
|-----------------------|--|------------|------------------------------|
| Insulation Resistance | 1000MΩmin (at 500VDC) | | Item 7 of IEC 60255-5 |
| Dielectric Strength | Between contacts | 50Hz 1000V | JQX-14FC 3000V |
| | Between contact and coil | 50Hz 5000V | 4000V Surge voltage 12kV |
| Creepage distance | 8mm (only for JQX-14FC) | | Addenda B of IEC 60255-5 |
| Shock resistance | 100m/s | 11ms | IEC 68-2-27 test Ea |
| Vibration resistance | 10~50Hz amplitude 1.5mm | | IEC 68-2-6 Test Fc |
| Terminals strength | 10N | | IEC 68-2-26 Test Ua1 |
| Relative Humidity | 235°C ± 2°C 3 ± 0.5s | | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature | -40~70°C -25~75°C (JQX-14FC ₃) | | |
| Relative Humidity | 85% (at 40°C) | | IEC 68-2-3 Test Ca |
| Mass | 17g~20g | | |

Safety approvals

| safety approvals | UL&CUR | UL | CQC |
|------------------|---|---|---------------|
| Load | 1C 16A/250VAC 2C 5A/220VAC 1HP 250VAC 1/2HP 125VAC TV-5 | 1C 10A/250VAC 14VDC 2C 5A/250VAC 30VDC | 1C 10A/250VAC |

Dimensions mm /inch

Dimensions

Pole-distance L: 3.5mm or 5mm (0.138 inch or 0.197 inch)
JQX-14FC₃:5mm(0.197 inch)
Mounting (Bottom view)

(16A)

1A 1C 1A 1C 2A 2C
JQX-14FC₂ JQX-14FC₃

Wiring diagram (Bottom view)

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

