

JQX-10FF (HF10FF)

MINIATURE HIGH POWER RELAY



File No.:134517



File No.:CQC02001001955



Features

- 10A switching capability
- Long life (Min. 100,000 electrical operations)
- Industry standard 8 or 11 round terminals
- Matching sockets available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 35.0 x 35.0 x 55.0 mm

CONTACT DATA

Contact arrangement	2C, 3C
Initial contact resistance Max.	100 mΩ (at 1A 24VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating (Res. load)	2C:10A 250VAC/30VDC 3C:(NO)10A 250VAC/30VDC (NC) 5A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	10A
Max. switching power	2500VA / 300W
Mechanical life	1 x 10 ⁷ OPS
Electrical life	1 x 10 ⁶ OPS

CHARACTERISTICS

Initial insulation resistance	500MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	1500VAC 1min.
	Between open contacts	1000VAC 1min.
Operate time (at nomi. volt.)	Max. 25ms	
Release time (at nomi. volt.)	Max. 25ms	
Temperature rise	70°C	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10 to 55Hz 1.5mm	
Humidity	98% RH, +40°C	
Ambient temperature	-40°C to +55°C	
Termination	Octal and Undecal Type Plug	
Unit weight	85g	
Construction	Dust cover	

COIL

Coil power	DC type: 1.5W; AC type: 2.7VA
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COIL DATA

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω)
6	4.80	0.60	7.20	23.5 ± 10%
12	9.60	1.20	14.40	95 ± 10%
24	19.2	2.40	28.80	430 ± 10%
48	38.4	4.80	57.60	1630 ± 10%
100	80.0	10.0	120.0	6800 ± 10%
110	88.0	11.0	132.0	7300 ± 10%

Nominal Voltage (VAC)	Pick-up Voltage (VAC)	Drop-out Voltage (VAC)	Max. Allowable Voltage (VAC) 20°C	Coil Resistance (Ω)
6	4.80	1.80	7.20	3.9 ± 10%
12	9.60	3.60	14.40	16.3 ± 10%
24	19.2	7.20	28.80	70 ± 10%
48	38.4	14.4	57.60	315 ± 10%
110/120	88.0	36.0	132.0	1600 ± 10%
220/240	176	72.0	264.0	6800 ± 10%

SAFETY APPROVAL RATINGS

UL&CUR	10A 250VAC/30VDC
	1/3HP 120VAC
	1/3HP 240VAC
	1/2HP 277VAC



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2005 Rev. 1.01

ORDERING INFORMATION

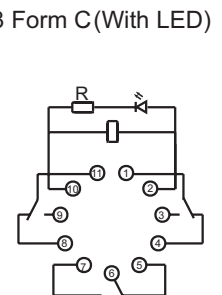
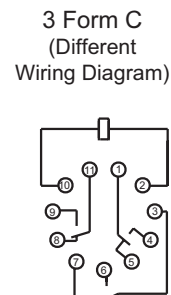
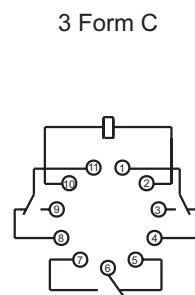
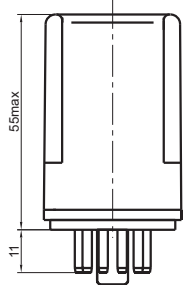
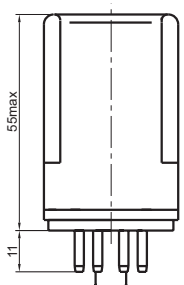
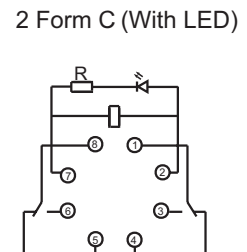
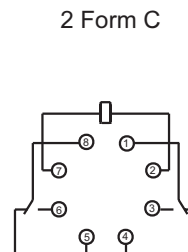
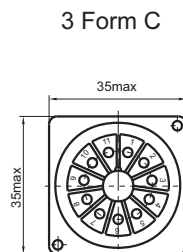
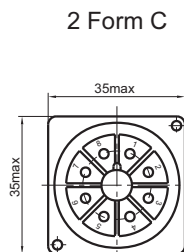
JQX-10FF / 012 A 2Z D T G XXX	
Type	
Coil voltage	DC: 6, 12, 24, 48, 100, 110 AC: 6, 12, 24, 48, 110/120, 220/240
Coil voltage form	A: AC D: DC
Contact arrangement	2Z: 2 Form C 3Z: 3 Form C 3Z-1: 3 Form C (Different Wiring Diagram)
LED	D: With LED Nil: Without LED
Contact material	T: AgSnO ₂ Nil: AgCdO
Contact plating	G: Gold plated Nil: No gold plated
Customer special code	(Only for special requirements, e.g. 551 stands for lead-free, 555 stands for RoHS compliant)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

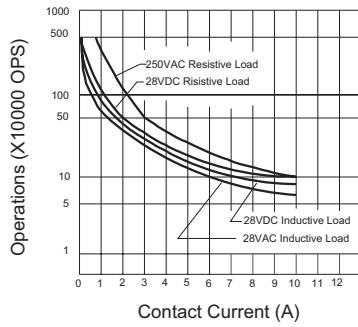
Outline Dimensions

Wiring Diagram

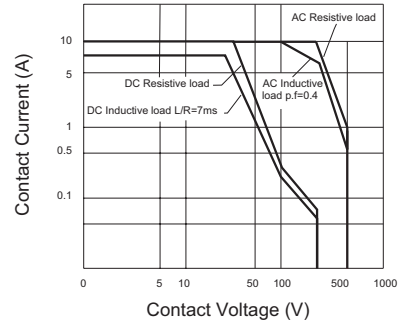


CHARACTERISTIC CURVES

LIFE CURVE



MAXIMUM SWITCHING POWER



Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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