# HF10FF (JQX-10FF)

## **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
- Sockets available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (35.0 x 35.0 x 55.0) mm

CONTACT DATA	
Contact arrangement	2C, 3C
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	AgSnO <sub>2</sub> , 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 endurance	1 x 10 <sup>7</sup> ops
Electrical endurance	1 x 10⁵ ops

CHARACTERISTICS				
Insulation resistance		ce	500MΩ (at 500VDC)	
Dielectric	Between coil & contacts		1500VAC 1min	
strength	Between open contacts		1000VAC 1min	
Operate time (at nomi. volt.)		omi. volt.)	30ms max.	
Release time (at nomi. volt.)		omi. volt.)	30ms max.	
Temperature rise (at nomi. volt.)		at nomi. volt.)	70K max.	
Shock resistance		Functional	100m/s² (10g)	
		Destructive	1000m/s² (100g)	
Vibration resistance		е	10Hz to 55Hz 1.5mm DA	
Humidity			98% RH, 40°C	
Ambient temperature		re	-40°C to 55°C	
Termination			Octal and Undecal Type Plug	
Unit weight			Approx.100g	
Construction			Dust protected	
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Notes: The data shown above are initial values.

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

COIL	DATA at 23°C			
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
6	4.80	0.60	7.20	23.5 x (1±10%)
12	9.60	1.20	14.4	95 x (1±10%)
24	19.2	2.40	28.8	430 x (1±10%)
48	38.4	4.80	57.6	1630 x (1±10%)
100	80.0	10.0	120	6800 x (1±10%)
110	88.0	11.0	132	7300 x (1±10%)

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowable Voltage VAC	Coil Resistance Ω
6	4.80	1.80	7.20	3.9 x (1±10%)
12	9.60	3.60	14.4	16.9 x (1±10%)
24	19.2	7.20	28.8	70 x (1±10%)
48	38.4	14.4	57.6	315 x (1±10%)
110/120	88.0	36.0	132	1600 x (1±10%)
220/240	176	72.0	264	6800 x (1±10%)

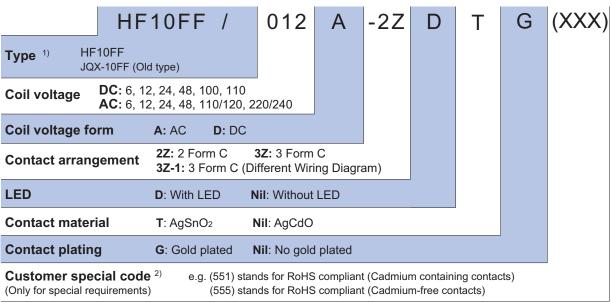
SAFETY APPROVAL RATINGS		
UL&CUR	10A 250VAC/30VDC	
	1/3HP 120VAC	
	1/3HP 240VAC	
	1/2HP 277VAC	

**Notes:** Only some typical ratings are listed above. If more details are required, please contact us.



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## **ORDERING INFORMATION**

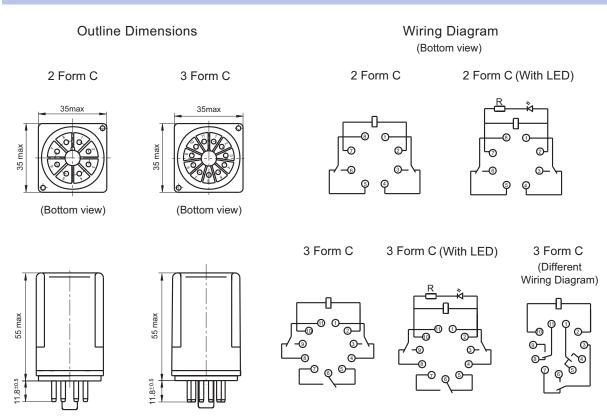


Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

2) HF10FF is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.

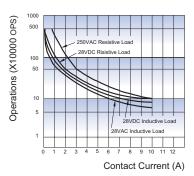
## **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

Unit: mm

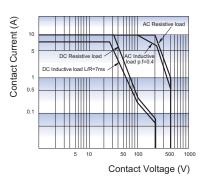


## **CHARACTERISTIC CURVES**

#### **ENDURANCE 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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