HF18FF (JZX-18FF)

MINIATURE INTERMEDIATE POWER RELAY



File No.:F133481



File No.:R50029721



File No.:CQC02001001940



Features

- 7A switching capability
- 1.5kV dielectric strength (between coil and contacts)
- Various terminals, test button available
- Gold plated contact available
- Conform to the CE low voltage directive
- Sockets available
- 2 to 4 pole configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.0 x 21.5 x 35.0) mm

CONTACT DATA			
Contact arrangement	2C, 3C		
Contact resistance	100mΩ (at 1A 6VDC)		
Contact material	Silver alloy, Silver alloy+Au plated		
Contact rating (Res. load)	7A 250VAC/30VDC	5A 250VAC/30VDC	
Max. switching voltage	250VAC / 30VDC		
Max. switching current	7A	5A	
Max. switching power	210W	150W	
	1750VA	1250VA	
Mechanical endurance		2 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)		

CHARACTERISTICS				
Insulation resistance			1000MΩ (at 500VAC)	
	Between coil & contacts		1500VAC 1min	
Dielectric	Between open contacts		1000VAC 1min	
strength	Between contact sets		1500VAC 1min	
Operate time (at nomi. volt.)		25ms max.		
Release time (at nomi. volt.)		25ms max.		
Temperature rise (no-load, at nomi.volt.)			60K max.	
Shock res	istance	Functional	100m/s² (10g)	
SHOCK resistance		Destructive	1000m/s ² (100g)	
Vibration resistance		10Hz to 55Hz 1mm DA		
Humidity		98% RH, 40°C		
Ambient temperature		-40°C to 70°C		
Termination		PCB, Plug-in		
Unit weight		Approx. 37g		
Construction		Dust protected		

Notes: The data shown above are initial values.

COIL		
Coil power	DC type: 0.9 to 1.1W;	AC type: 1.2 to 1.8VA

C	COIL DATA			at 23°C	
Vo	ominal oltage /DC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
	5	4.0	0.50	5.5	27.5 x (1±10%)
	6	4.8	0.60	6.6	40 x (1±10%)
	12	9.6	1.20	13.2	160 x (1±10%)
	24	19.2	2.40	26.4	650 x (1±10%)
	48	38.4	4.80	52.8	2600 x (1±15%)
	110	88.0	11.0	121	11000 x (1±15%)

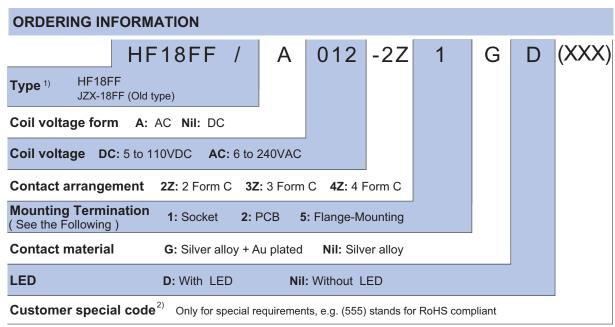
Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowable Voltage VDC	Coil Resistance Ω
6	4.80	1.80	6.6	11.5 x (1±10%)
12	9.60	3.60	13.2	46 x (1±10%)
24	19.2	7.20	26.4	184 x (1±10%)
48	38.4	14.4	52.8	735 x (1±10%)
120	96.0	36.0	132	4550 x (1±15%)
220/240	176.0	72.0	264	14400 x (1±15%)

SAFETY APPROVAL RATINGS				
UL&CUR	2C:	7A	250VAC/30VDC	
	3C,4C:	5A	250VAC/30VDC	
TÜV.	2C,3C:	7A	250VAC/30VDC	
TÜV	4C:	5A	250VAC/30VDC	

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



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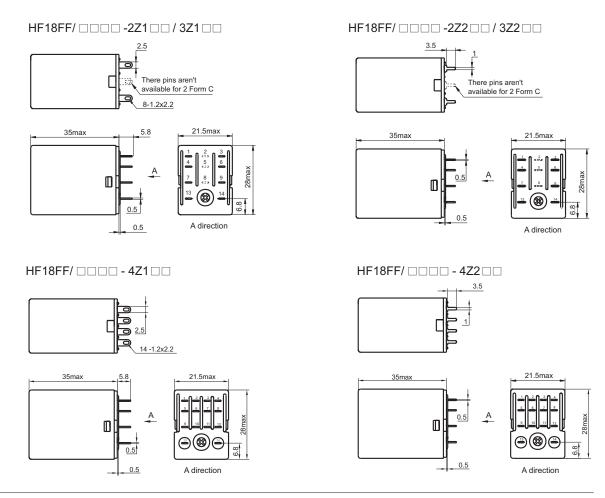
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

- 2) HF18FF is an environmental friendly product. Please mark a special code (555) when ordering.
- 3) We also can supply the special type with terminals numbered 1,4,5,8,9,12,13,14 for 2 poles.

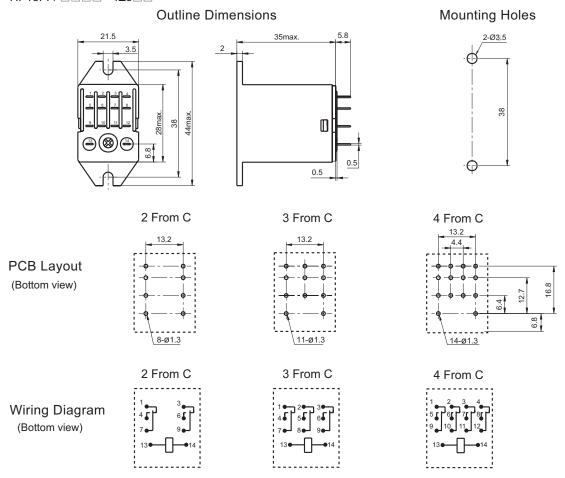
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



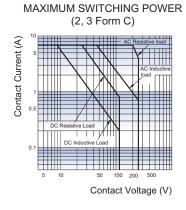
HF18FF/ | | | | - 4Z5 | |

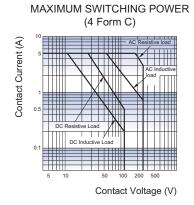


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be ±0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES





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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