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
- 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	See ordering info.	
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 ⁷ ops	
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)	

CHARACTERISTICS				
Insulation resistance		се	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	98m/s²	
		Destructive	980m/s²	
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	

Notes: The data shown above are initial values.

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

COIL D	ATA		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/CUL	10A 250VAC/30VDC	
	1/3HP 120VAC	
	1/3HP 240VAC	
	1/2HP 277VAC	

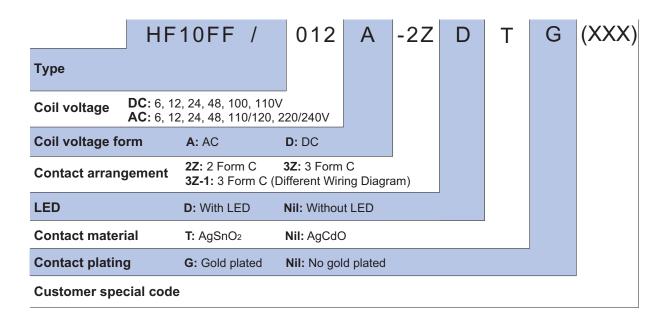
Notes: Only some typical ratings are listed above. If more details are required, please contact us.



ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2009 Rev. 1.00

ORDERING INFORMATION



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

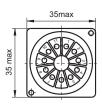
Outline Dimensions

max

2 Form C

(Bottom view)

3 Form C

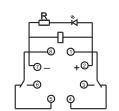


(Bottom view)

Wiring Diagram

(Bottom view)



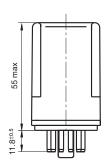


3 Form C

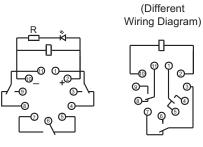
2 Form C (With LED)

Remark: For AC parts with diode, the positive and negative pole markings





3 Form C (With LED) 3 Form C



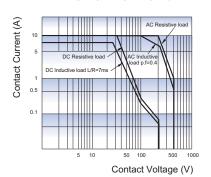
Remark: For AC parts with diode, the positive and negative pole markings on wiring diagram are not applicable.

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

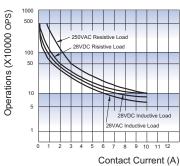
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



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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