HF37F

MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:40025378



File No.:CQC09002028695



Features

- 30A switching capability
- 70A withstands inrush current
- TV-15 (at 120VAC) available
- 1 Form A configuration
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (35.2 x 32.2 x 24.0) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO2, AgCdO
Contact rating (Res. load)	30A 250VAC
Max. switching voltage	277VAC
Max. switching current	30A
Max. switching power	7500VA
Mechanical endurance	5 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁵ ops (See approval reports for more details)

CHARACTERISTICS				
Insulation resistance		е	1000MΩ (at 500VDC)	
Dielectric Between		coil & contacts	4000VAC 1min	
strength	Between open contacts		1200VAC 1min	
Operate time (at nomi. volt.)		mi. volt.)	20ms max.	
Release time (at nomi. volt.)		mi. volt.)	5ms max.	
Shock resistance		Functional	196m/s ²	
		Destructive	980m/s²	
Vibration resistance		,	10Hz to 55Hz 1.5mm DA	
Ambient temperature		е	-40°C to 70°C	
Humidity			35% to 95% RH, 40°C	
Termination			QC	
Unit weight			Approx. 55g	
Construction			Dust protected	

Notes: 1) The data shown above are initial values.

COIL	
Coil power	1.2W

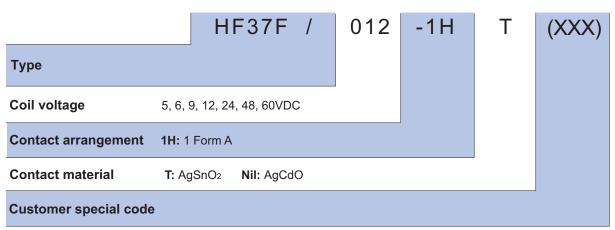
COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.50	0.50	6.0	20.8 x (1±10%)
6	4.20	0.60	7.2	30 x (1±10%)
9	6.30	0.90	10.8	67.5 x (1±10%)
12	8.40	1.20	14.4	120 x (1±10%)
24	16.8	2.40	28.8	480 x (1±10%)
48	33.6	4.80	57.6	1920 x (1±10%)
60	42.0	6.00	72.0	3000 x (1±10%)

SAFETY APPROVAL RATINGS					
UL/CUL	AgSnO2	30A 250VAC 2HP 125VAC/250VAC TV-15 120VAC			
52,602	AgCdO	20A 250VAC 1HP 125VAC/250VAC TV-15 120VAC			
VDE	AgCdO	30A 250VAC at 70°C			

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

²⁾ Please find coil temperature curve in the characteristic curves below.

ORDERING INFORMATION

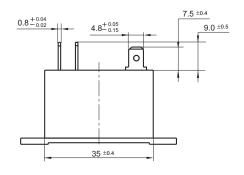


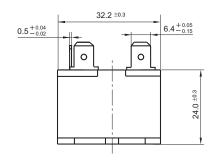
Notes: 1) The terminal for HF37F is QC type. Please don't weld directly on terminal.

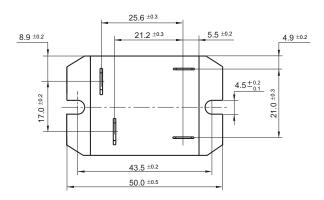
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

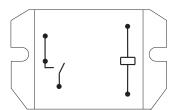
Outline Dimensions







Wiring Diagram (Top view)



Mounting holes

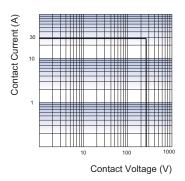


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

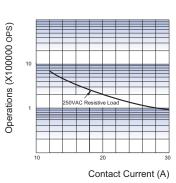
2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

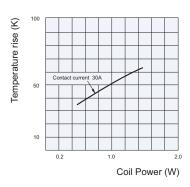
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.