HF37F

MINIATURE HIGH POWER RELAY





File No.:40025378



File No.:CQC13002102287



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 max.(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		
	1HT, 1H type: 6 x 10 ³ ops (30A 250VAC,		
	Resistive load, at 40°C, 1s on 9s off)		
Electrical endurance	1H type: 5 x 10 ⁴ ops		
	(23A cosØ=1 250VAC, Resistive load,		
	at 70°C, 1.5s on 1.5s off)		

CHAR	ACTER	RISTICS		
Insulation resistance		1000MΩ (at 500VDC		
Dielectric Between		coil & contacts	4000VAC 1min	
strength	Between open contacts		1200VAC 1min	
Operate ti	ime (at no	mi. volt.)	20ms max.	
Release time (at nomi. volt.)		5ms max.		
Shock resistance		Functional	196m/s²	
		Destructive	980m/s²	
Vibration resistance		10Hz to 55Hz 1.5mm DA		
Ambient temperature		-40°C to 70°C		
Humidity		5% to 85% RH		
Termination		QC		
Unit weight		Approx. 55g		
Construction			Dust protected	

Notes: 1) The data :	shown	above a	are	initial	values.
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- 2) Please find coil temperature curve in the characteristic curves below.
- 3) UL insulation system: Class A

COIL	
Coil power	Approx. 1.2W

COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. 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%)

Notes: *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFEI	Y APP	ROVAL	KATINGS

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UL/CUL	AgSnO2	30A 250VAC 2HP 125VAC/250VAC TV-15 120VAC		
	AgCdO	30A 250VAC 2HP 125VAC/250VAC TV-15 120VAC		
VDE	AgCdO	23A 250VAC at 70°C		

Notes: 1) All values unspecified are at room temperature.
2) Only typical loads are listed above. Other load specifications can be available upon request.



ORDERING INFORMATION



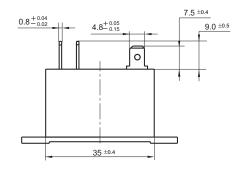
 $\textbf{Notes:} \ \ \textbf{1) The terminal for HF37F is QC type. Please don't weld directly on terminal.}$

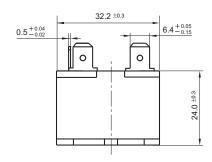
2) The customer special requirement express as special code after evaluating by Hongfa.

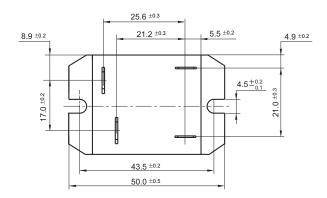
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

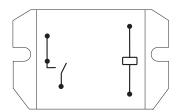
Outline Dimensions







Wiring Diagram (Top view)



Mounting holes

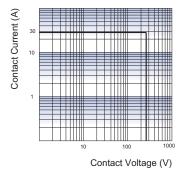


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

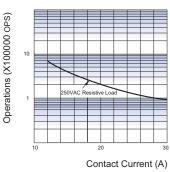
2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

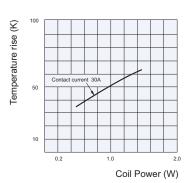
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Notes:

- 1) Curve:1HT type (or 1H type)
- 2) Test conditions: at 70°C, 1s on 9s off.

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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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