

HF84F

HIGH POWER RELAY





US

File No.:E134517 (AC type)

Features

- 16A switching capability
- 2.5kV dielectric strength (between coil and contacts)
- Panel mount types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (47.0 x 32.0 x 28.5)mm

CONTACT DATA	
Contact arrangement	1A, 1B, 1C
Contact resistance	50mΩ max.(at 1A 24VDC)
Contact material	AgCe
Contact rating (Res.load)	1A, 1B: 16A 120/240VAC 1C: 8A 120/240VAC
Max. switching voltage	240VAC
Max. switching current	16A
Max. switching power	3840VAC
Mechanical endurance	1 x 10 ⁶ OPS
Electrical endurance	1 x 10 ⁵ OPS

CHARACTERISTICS		
Insulation resistance		1500MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	2500VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)		DC type: 25ms max.
Release time (at nomi. volt.)		DC type: 25ms max.
Temperature rise (at nomi. volt.)		90K max.
Shock resistance (Functional)		147m/s ² 11ms
Vibration resistance		10Hz to 55Hz 2.54mm DA
Ambient temperature		-40°C to 65°C
Humidity		5% to 85% RH
Termination		QC
Unit weight		Approx. 75g
Construction		Dust protected

Notes: 1) The data shown above are initial values.
2) UL insulation system: Class A

COIL	
Coil power	DC type: 2.1W ; AC type: 3.5VA

COIL DATA					at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω	
6	4.50	0.6	6.6	17.5 x (1±10%)	
9	6.75	0.9	9.9	40 x (1±10%)	
12	9.00	1.2	13.2	70 x (1±10%)	
24	18.0	2.4	26.4	280 x (1±10%)	
48	36.0	4.8	52.8	1120 x (1±10%)	
120	90.0	12.0	132	7000 x (1±10%)	

Nominal Voltage VAC	Pick-up Voltage VAC max.	Drop-out Voltage VAC min.	Max. Allowable Voltage VAC	Coil Resistance Ω	
6	5.1	1.2	6.6	4.8 x (1±10%)	
12	10.2	2.4	13.2	19 x (1±10%)	
24	20.4	4.8	26.4	90 x (1±10%)	
48	40.6	9.6	52.8	300 x (1±10%)	
120	102	24	132	2000 x (1±10%)	
240	204	48	264	7200 x (1±10%)	
277	235	55.4	304.7	11000 x (1±10%)	

SAFETY APPROVAL RATINGS		
UL/CUL (AC type)	HF84F-1	8FLA 25LRA 250VAC 16A 250VAC 8A 250VAC
	HF84F-4	8FLA 25LRA 250VAC 16A 250VAC 8A 250VAC
	HF84F-7	8FLA 25LRA 250VAC 8A 250VAC

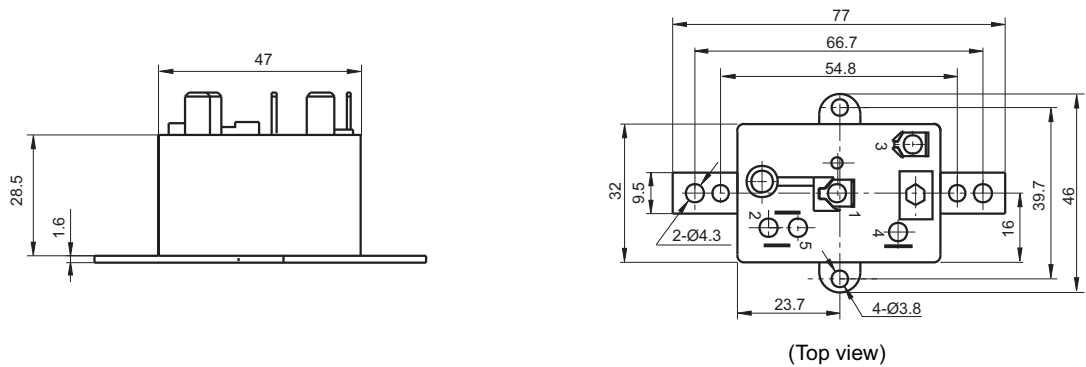
Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION				
Type		HF84F	-1	A 24 (XXX)
Contact arrangement		1: 1 Form C 4: 1 Form A 7: 1 Form B		
Coil voltage form		D: DC A: AC		
Coil voltage		AC: 6VAC to 277VAC DC: 6VDC to 120VDC (No UL approved)		
Customer special code				

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

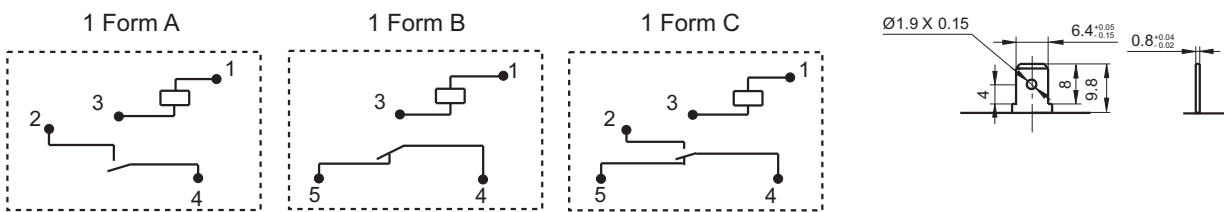
Unit: mm

Outline Dimensions



Wiring Diagram
(Top view)

Terminals type



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

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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