HF94F (9400)

HIGH POWER RELAY



File No.:E134517



File No.:CQC03001008649



Features

- 25A switching capability
- 2kV dielectric strength (between coil and contacts)
- Panel mount, various terminal types
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (47.0 x 32.0 x 28.5) mm

CONTACT DATA		
Contact arrangement	1A, 1B, 1C, 1A + 1B	
Contact resistance	200mΩ (at 1A 24VDC)	
Contact material	AgCe	
Contact rating (Res.load)	18A 277VAC	
Max. switching voltage	277VAC	
Max. switching current	25A	
Max. switching power	6925VA	
Mechanical endurance	1 x 10 ⁶ OPS	
Electrical endurance	1 x 10⁵ ops	

CHARACTERISTICS			
Insulation resistance		500MΩ (at 500VDC)	
Dielectric	Between coil & contacts	2000VAC 1min	
strength	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.)		60K max.	
Shock resistance (Functional)		100m/s² (10g)	
Vibration resistance		10Hz to 55Hz 1.0mm DA	
Ambient temperature		-20°C to 40°C	
Humidity		98% RH, 40°C	
Termination		QC	
Unit weight		Approx. 85g	
Construction		Dust protected	

Notes: The data shown above are initial values.

COIL		
Coil power	DC type: 2.4W;	AC type: 4.0VA

COIL DATA				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	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	Drop-out Voltage VAC	Max. Allowable Voltage VAC	Coil Resistance Ω
6	5 1	1.2	6.6	1 0 × (1±100/)

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	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	77 x (1±10%)
48	40.8	9.6	52.8	280 x (1±10%)
120	102	24	132	2000 x (1±10%)
240	204	48	264	7250 x (1±10%)
277	204	48	304.7	11000 x (1±10%)

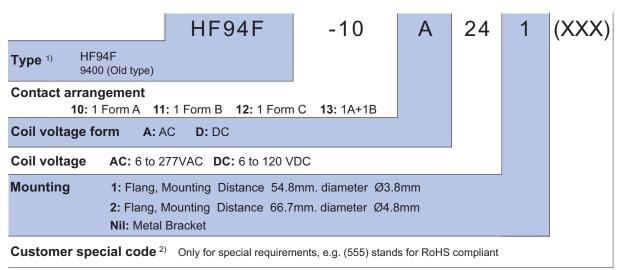
SAFETY APPROVAL RATINGS			
	HF94F-10	12FLA,60LRA	
		8FLA,48LRA 250VAC	
		7FLA,42LRA 277VAC	
		25A 277VAC	
	HF94F-12	14FLA,84LRA 125VAC	
III O CUID		8FLA,48LRA 250VAC	
		7FLA,42LRA 277VAC	
		25A 277VAC	
	HF94F-13	12FLA,60LRA 120VAC	
		8FLA,48LRA 250VAC	
		7FLA,42LRA 277VAC	
		25A 277VAC	

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



2007 Rev. 2.00

ORDERING INFORMATION



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.

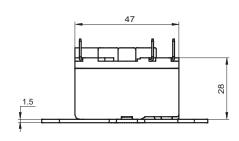
2) HF94F is an environmental friendly product. Please mark a special code (555) when ordering.

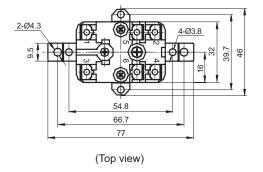
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

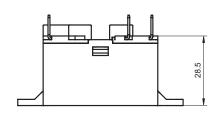
Outline Dimensions

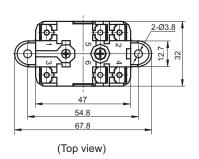
Metal Bracket





Flang, Mounting Distance 54.8mm

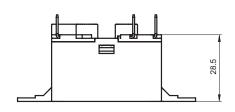


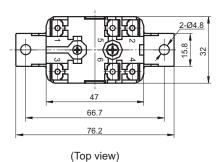


1A+1B

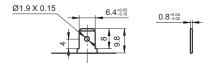
Outline Dimensions

Flang, Mounting Distance 66.7mm



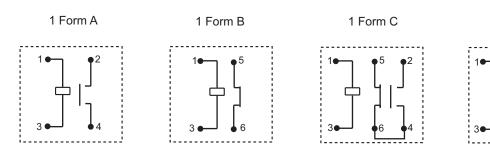


Terminals type



Remark: 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.

Wiring Diagram (Top view)



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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