

HF94F (9400)**HIGH POWER RELAY****cULus**

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 10 ⁵ OPS

CHARACTERISTICS

Insulation resistance		500MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	2000VAC 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.)		60K max.
Shock resistance (Functional)		100m/s ² (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	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

UL&CUR	HF94F-10	12FLA,60LRA
		8FLA,48LRA 250VAC
		7FLA,42LRA 277VAC
	HF94F-12	25A 277VAC
		14FLA,84LRA 125VAC
		8FLA,48LRA 250VAC
	HF94F-12	7FLA,42LRA 277VAC
		25A 277VAC
		12FLA,60LRA 120VAC
	HF94F-13	8FLA,48LRA 250VAC
		7FLA,42LRA 277VAC
		25A 277VAC

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

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 2.00

ORDERING INFORMATION							
		HF94F	-10	A	24	1	(XXX)
Type ¹⁾	HF94F 9400 (Old type)						
Contact arrangement							
10: 1 Form A 11: 1 Form B 12: 1 Form C 13: 1A+1B							
Coil voltage form A: AC D: DC							
Coil voltage AC: 6 to 277VAC DC: 6 to 120 VDC							
Mounting							
1: Flang, Mounting Distance 54.8mm. diameter Ø3.8mm							
2: Flang, Mounting Distance 66.7mm. diameter Ø4.8mm							
Nil: Metal Bracket							
Customer special code ²⁾ Only for special requirements, e.g. (555) stands for RoHS compliant							

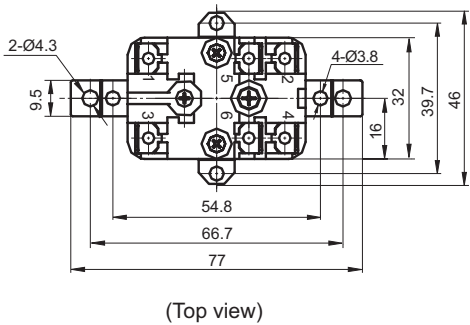
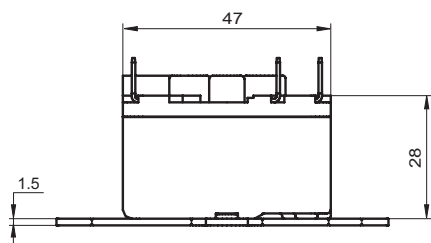
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.
2) HF94F is an environmental friendly product. Please mark a special code (555) when ordering.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

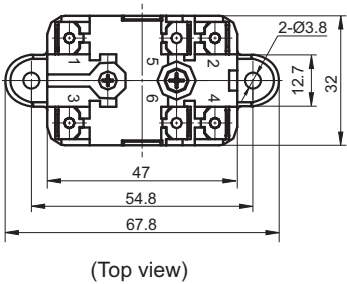
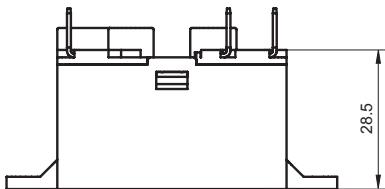
Unit: mm

Outline Dimensions

Metal Bracket



Flang, Mounting Distance 54.8mm

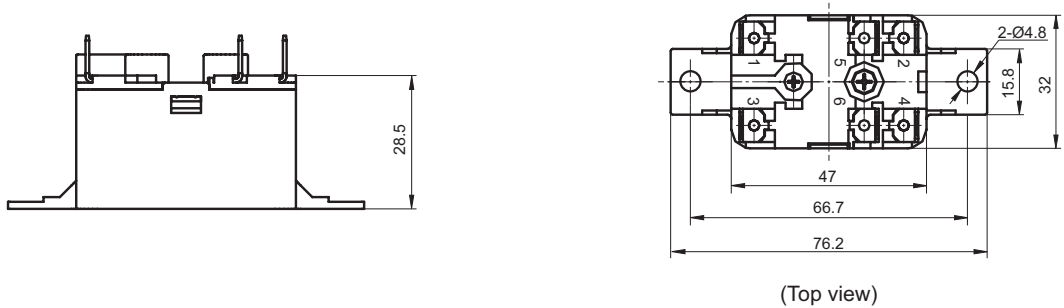


OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

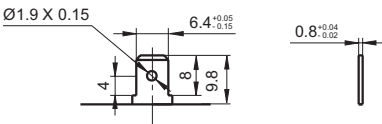
Unit: mm

Outline Dimensions

Flang, Mounting Distance 66.7mm



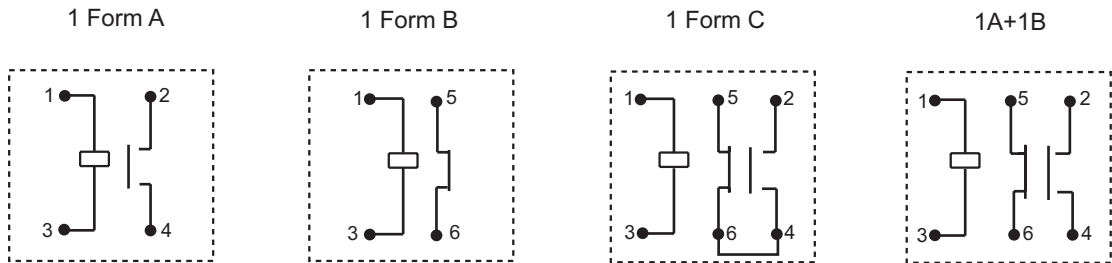
Terminals type



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 $\pm 0.4\text{mm}$.

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.