# HF62F

# **MINIATURE HIGH POWER RELAY**



File No.:E133481



File No.:R50147086



File No.:CQC09002028470



#### Features

- 20A switching capability
- 5kV dielectric strength (between coil and contacts)
- 10kV impulse withstand voltage (between coil and contacts)
- creepage distance: 8mm
- PCB & QC layouts available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.6 x 24.2) mm

CONTACT DATA		
Cantact arrangement	1A	
Contact resistance	100mΩ (at 1A 24VDC)	
Contact material	AgSnO <sub>2</sub>	
Contact rating (Res. load)	16A 250VAC	
	16A 30VDC	
Max. switching voltage	277VAC / 30VDC	
Max. switching current	20A	
Max. switching power	4000VAC / 480W	
Mechanical endurance	1 x 10 <sup>7</sup> ops	
Electrical endurance	1 x 10⁵ops	

CHARACTERISTICS				
Insulation resistance		1000MΩ (at 500VDC)		
Dielectric Between co		il & contacts	5000VAC 1min	
strength	Between open contacts		1000VAC 1min	
Operate time (at nomi. volt.)		20ms max.		
Release time (at nomi. volt.)		10ms max.		
Humidity		35% to 85% RH, 40°C		
Ambient temperature		Class B	-40°C to 70°C	
		Class F	-40°C to 85°C	
Shock resistance		Functional	98m/s <sup>2</sup>	
		Destructive	980m/s <sup>2</sup>	
Vibration resistance			10Hz to 55Hz 1.5mm DA	
Termination		T type: PCB D type, Standard: PCB & QC		
Unit weight			Approx.15g	
Construction			Flux proofed	

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

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

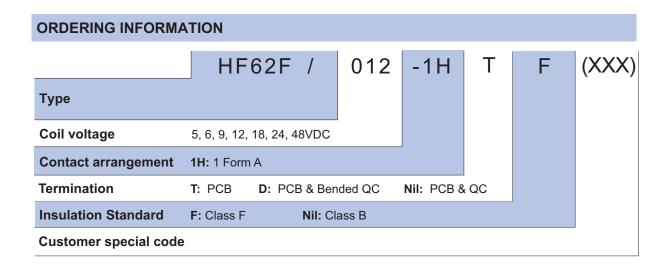
COIL	
Coil power	540mW

COIL DATA					at 23°C
	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
	5	4.0	0.5	6.50	47 x (1±10%)
	6	4.8	0.6	7.80	68 x (1±10%)
	9	7.2	0.9	11.7	155 x (1±10%)
	12	9.6	1.2	15.6	270 x (1±10%)
	18	14.4	1.8	23.4	620 x (1±10%)
	24	19.2	2.4	31.2	1100 x (1±10%)
	48	38.4	4.8	62.4	4400 x (1±10%)

SAFETY APPROVAL RATINGS			
UL/CUL	16A 250VAC		
	16A 30VDC		
	20A 125VAC		
TÜV	16A 250VAC COSØ =1		
	16A 30VDC cosø =1		

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

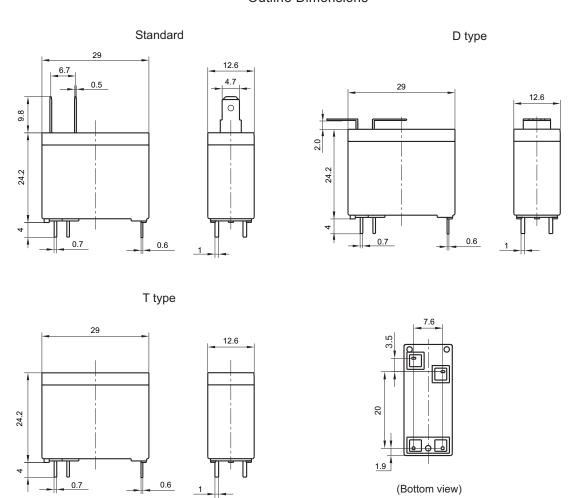




## **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

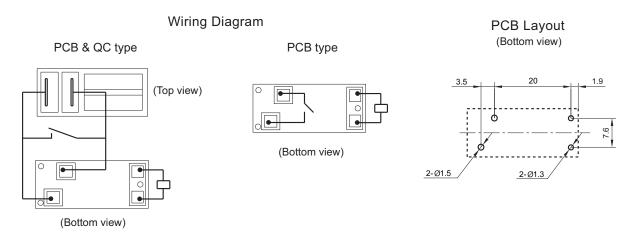
Unit: mm

#### **Outline Dimensions**



### **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

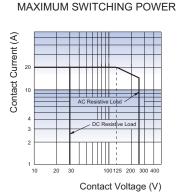
Unit: mm

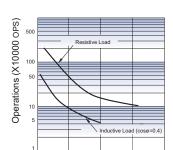


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq$ 1mm, tolerance should be ±0.2mm; outline dimension >1mm and  $\leq$ 5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

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

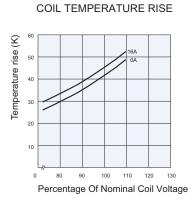
#### **CHARACTERISTIC CURVES**





Contact Current (A)

**ENDURANCE CURVE** 



### 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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