# 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
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.6 x 24.2) mm

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1A
50mΩ max.(at 1A 6VDC)
AgSnO <sub>2</sub>
16A 250VAC
16A 30VDC
277VAC / 30VDC
20A
4000VAC / 480W
1 x 10 <sup>7</sup> ops
1 x 10 <sup>5</sup> ops (16A 250VAC, Resistive load, Room temp., 3s on 3s off)

### **CHARACTERISTICS**

Insulation	resistance	1000MΩ (at 500VDC)			
Dielectric	Between c	oil & contacts	5000VAC 1mir		
strength	Between o	pen contacts	1000VAC 1mi		
Operate time (at nomi. volt.)			20ms max		
Release ti	me (at nom	10ms max.			
Humidity		5% to 85% RH			
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		
Vibration r	esistance	10Hz to 55Hz 1.5mm DA			
Termination	on	T type: PCB D type, Standard: PCB & QC			
Unit weigh	nt	Approx.15g			
Constructi	on	Flux proofed			

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

- 2) Please find coil temperature curve in the characteristic curves below.
- 3) UL insulation system: Class F, Class B.

COIL				
Coil power	Approx. 540mW			

COIL D	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	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%)		

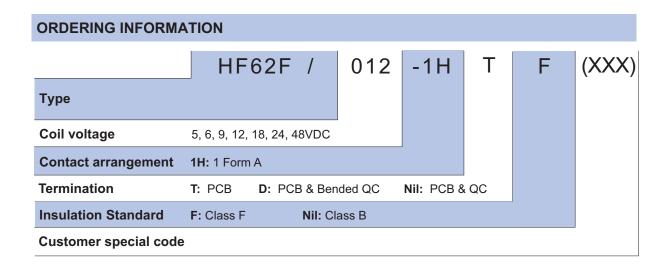
Notes: \*Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS				
	16A 250VAC			
UL/CUL	16A 30VDC			
	20A 125VAC			
-0.	16A 250VAC COSØ =1			
TÜV	16A 30VDC COSØ =1			

Notes: 1) All values unspecified are at room temperature.

 Only typical loads are listed above. Other load specifications can be available upon request.

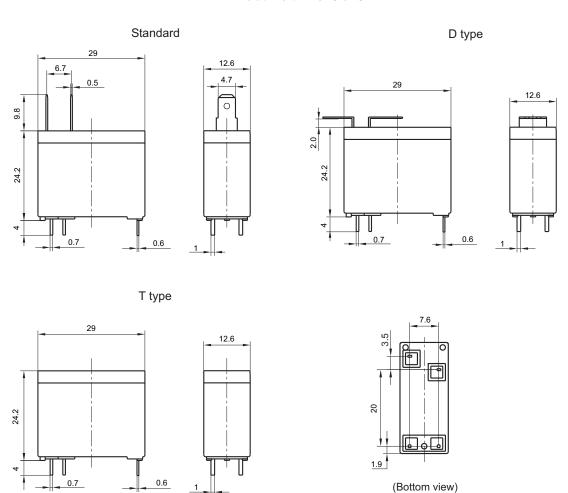




# **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

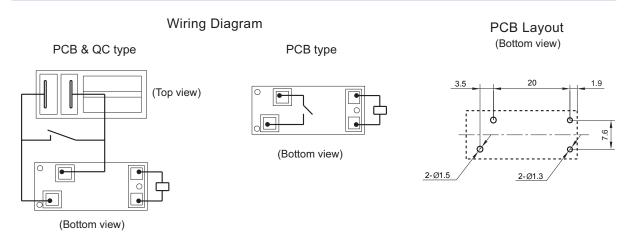
Unit: mm

#### **Outline Dimensions**



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

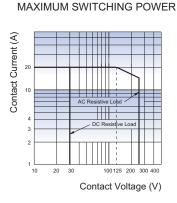
Unit: mm



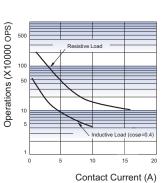
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq$ 1mm, tolerance should be ±0.2mm; outline dimension >1mm and  $\leq$ 5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

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

#### **CHARACTERISTIC CURVES**

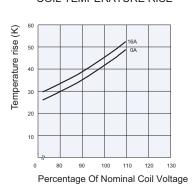






**Test conditions:** Room temp., 3s on 3s off

#### COIL TEMPERATURE RISE



### 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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