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

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Cantact arrangement	1A
Contact resistance ¹⁾	50mΩ max.(at 1A 6VDC)
Contact material	AgSnO ₂
Contact rating	16A 250VAC
(Res. load)	16A 30VDC
Max. switching voltage	277VAC / 30VDC
Max. switching current	20A
Max. switching power	4000VAC / 480W
Mechanical endurance	5x10 ⁶ ops, Special code166:1x10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops (16A 250VAC, Resistive load, Room temp., 1s on 1s off)

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

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		5000VAC 1min
strength	Between open contacts		1000VAC 1min
Operate ti	me (at rate	d. volt.)	20ms max.
Release ti	me (at rate	d. volt.)	10ms max.
Humidity		5% to 85% RH	
Ambient temperature		-40°C to 85°C	
Shock resistance		Functional	98m/s ²
		Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Termination		T type: PCB 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.
- 3) UL insulation system: Class F, Class B.

COIL	
Coil power	Approx. 540mW

COIL DATA					at 23°C
	Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC *2)	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 v (1+10%)

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

2)*Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS			
UL/CUL	16A 250VAC		
	16A 30VDC		
	20A 125VAC		
=0.4	16A 250VAC COSØ =1		
TÜV	16A 30VDC cosø =1		
CQC	-40°C to 105°C, 16A 250VAC		

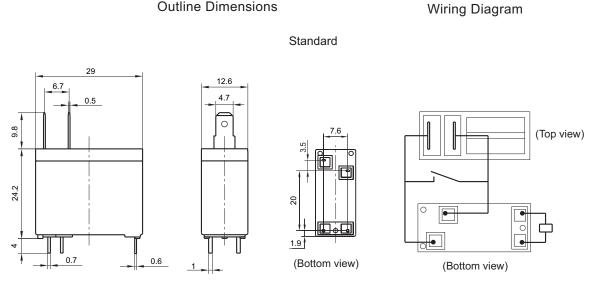
Notes: 1) All values unspecified are at room temperature.

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

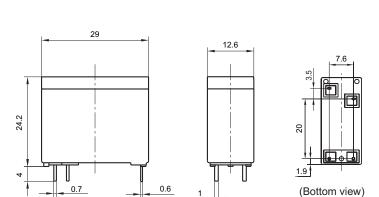


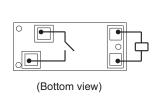
Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Outline Dimensions Wiring Diagram

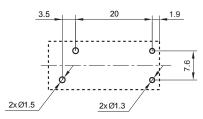


T type





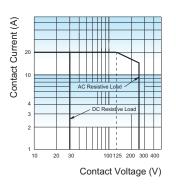
PCB Layout (Bottom view)



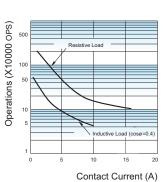
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.
 - 2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER

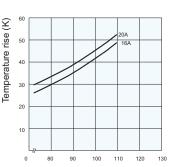


ENDURANCE CURVE



Test conditions: Room temp., 1s on 1s off

COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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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