HF42F

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E133481



File No.:R50356443



File No.:CQC18002199982



Features

- 5A switching capability
- TV-3 125VAC approved by UL standard
- 2 Form A slim configuration

RoHS compliant

CONTACT DATA	
Contact arrangement	2A
Contact resistance ¹⁾	100mΩ max. (at 1A 6VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	5A
Max. switching power	1250VA / 150W
Mechanical endurance	1 x 10 ⁶ ops
	2H: 5 x 10 ⁴ ops
Electrical endurance	(5A 250VAC, Resistive load,
	Room temp., 1.5s on 1.5s off)

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

CHARACTERISTICS					
Insulation resistance			1000MΩ (at 500VDC)		
Dielectric strength	Between coil & contacts		4000VAC 1min		
	Between open contacts		1000VAC 1min		
	Between contact sets		2000VAC 1min		
Operate time (at rated. volt.)		ted. volt.)	15ms max.		
Release time (at rated. volt.)		ited. volt.)	10ms max.		
Humidity			5% to 85% RH		
Ambient temperature		re	-40°C to 70°C		
Shock resistance		Functional	98m/s ²		
		Destructive	980m/s ²		
Vibration resistance)	10Hz to 55Hz 1.5mm DA		
Termination			PCB		
Unit weight			Approx. 14.5g		
Construction			Plastic sealed		

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 A
- 4) For sealed type, the vent-hole cover should be excised.

COIL		
Coil power	Approx. 530mW	

COIL D	ATA			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	3.75	0.25	6.5	47 x (1±10%)
6	4.50	0.30	7.8	68 x (1±10%)
9	6.75	0.45	11.7	155 x (1±10%)
12	9.00	0.60	15.6	270 x (1±10%)
18	13.5	0.90	23.4	620 x (1±10%)
24	18.0	1.20	31.2	1080 x (1±10%)
48	36.0	2.40	62.4	4400 x (1±10%)

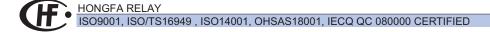
Notes: 1) The data shown above are initial values.

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

SAFETY APPROVAL RATINGS				
UL/CUL	5A 250VAC			
	5A 30VDC			
	TV-3 125VAC			
TÜV	5A 250VAC			
	5A 30VDC			

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

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



2020 Rev. 1.01



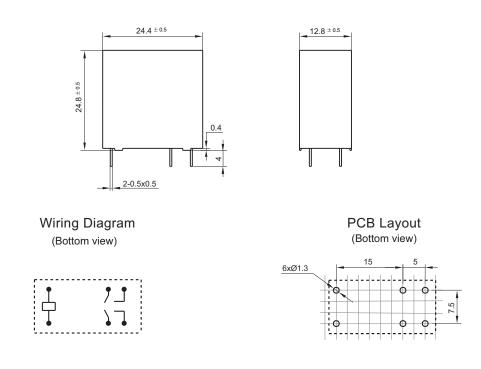
Notes: 1) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

2) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



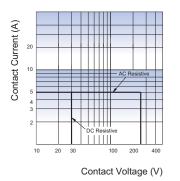
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

- 2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm.$
- 3) The width of the gridding is 2.5mm.

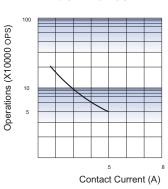
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CHARACTERISTIC CURVES

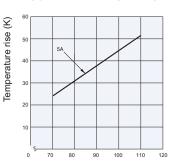
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

Test conditions:

5A 250VAC, Resistive load, Room temp., 1s on 9s off

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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