HF171F

MINIATURE HIGH POWER RELAY





File No.:40048577



File No.:17002177419



Features

- 8A switching capability
- 1 form A and 1 form C configurations
- High sensitivity 200mW
- Creepage/clearance distance:>6mm,meets VDE 0631reinforce insulation
- 5KV dielectric between coil to contacts
- Class F insulation

CONTACT DATA						
Contact arrangement	1A		1C			
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)					
Contact material	AgSnO ₂ ,AgNi					
		1A		1C		
Contact rating	64	250VAC		NO		NC
(Res. load)	-		6A	250VAC	5A	250VAC
	6A	30VDC	6A	30VDC	5A	30VDC
Max. switching voltage				30VE	oc/	277VAC
Max. switching current						8A
Max. switching power				1	80V	//1662VA
Mechanical endurance	1 v 10 ⁵ ops/Pesistive load		x 10 ⁷ ops			
Electrical endurance			,			

	1A 1C				
Contact rating (Res. load)		250VAC	NO	NC	
			6A 250VAC	5A	250VAC
	6A	30VDC	6A 30VDC	5A	30VDC
Max. switching voltage			30VI	DC/	277VAC
Max. switching current					8A
Max. switching power			1	80V	V/1662VA
Mechanical endurance				1	x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops(Resistive load, Room temp., 1.5s on 1.5s off)				
Notes: 1)The data shown above are initial values.					
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CHARACTERISTICS				
Insulation resistance			1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		5000VAC 1min	
strength	Between	open contacts	1000VAC 1min	
Surge voltage(Between coil & contacts			10KV(1.2/50 μ s)	
Operate time (at rated. volt.)			8ms max.	
Release time (at rated. volt.)			5ms max.	
Temperature rise (at rated.volt.)			60K max.	
Shock resistance*		Functional	98m/s ²	
		Destructive	980m/s²	
Vibration resistance			10Hz to 55Hz 1.5mm DA	
Humidity			5% to 85% RH	
Ambient temperature			-40°C to 85°C	
Termination			PCB	
Unit weight			Approx. 4.6g	
Construction			Flux proofed	

Notes: 1)*Index is not in relay length direction. 2)The data shown above are initial values.

COIL

Coil power Approx. 200mW

COIL DATA	at 23°C
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Nominal Voltage VDC	Pick-up Voltage VDC ¹⁾ max.	Drop-out Voltage VDC ¹⁾ min.	Max. ²⁾ Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.30	3.90	45 x (1±10%)
5	3.75	0.50	6.50	125 x (1±10%)
6	4.50	0.60	7.80	180 x (1±10%)
9	6.75	0.90	11.7	405 x (1±10%)
12	9.00	1.20	15.6	720 x (1±10%)
18	13.5	1.80	23.4	1600 x (1±10%)
24	18.0	2.40	31.2	2880 x (1±10%)
36	27.0	3.60	46.8	6480 x (1±10%)
48	36.0	4.80	62.4	11520 x (1±10%)

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

Maximum voltage is refers to the relay coil in a short period of time can bear the biggest values.

SAFETY APPROVAL RATINGS(PENDING)

		8A 250/277VAC Resistive 85°C
		6A 250/277VAC Resistive 85°C
		5A 30VDC Resistive 85°C
	1 Form A	6A 250VAC General purpose 85°C
		10A 120VAC General purpose 85°C
UL/CUL		1/4HP 240/277VAC Motor 40°C
OL/COL		B300 Pilot duty 40°C
		NO:8A 250/277VAC Resistive 85°C
	1 Form C	NO:6A 250/277VAC Resistive 85°C
		CO:5A 250/277VAC Resistive 85°C
	1 Form A	8A 250/277VAC Resistive 85°C
		6A 250/277VAC Resistive 85°C
		6A 30VDC Resistive 85°C AgSnO ₂
		8A 30VDC Resistive 85°C AgSnO ₂
VDE	1 Form C	NO:8A 250/277VAC Resistive 85°C
		NO:6A 250/277VAC Resistive 85°C
		NO:6A 30VDC Resistive 85°C AgSnO ₂
		NO:8A 30VDC Resistive 85°C AgSnO ₂
		CO:5A 250VAC/30VDC Resistive 85°C

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

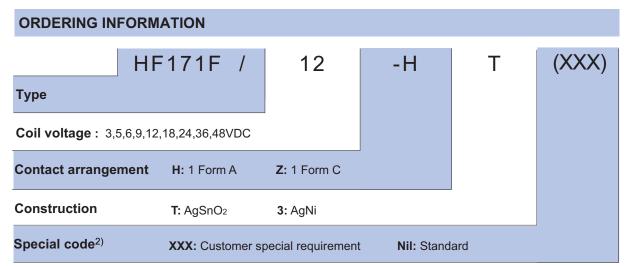
2) Only typical loads are listed above. Other load specifications can be available upon request.



HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2019 Rev. 1.01



 $\textbf{Notes: 1)} \ We \ recommend \ flux \ proofed \ types \ for \ a \ clean \ environment \ (free \ from \ contaminations \ like \ H_2S,SO_2,NO_2 \ dust,etc).$

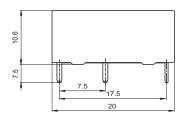
2) The customer special requirement express as special code after evaluating by Hongfa.

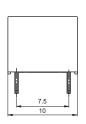
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

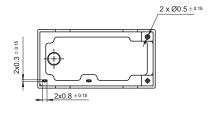
Unit: mm

Outline Dimensions

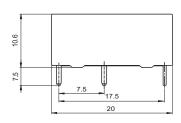
1 Form A

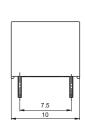


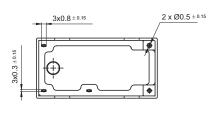


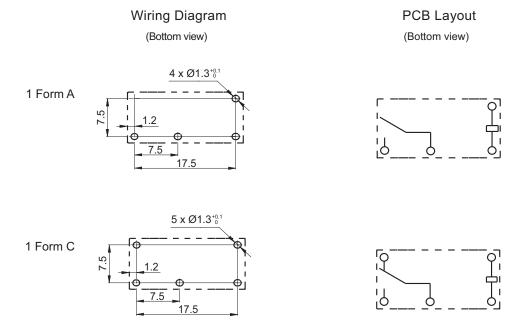


1 Form C









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

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

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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