HF171F

MINIATURE HIGH POWER RELAY

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File No.:E133481



File No.:40048577



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File No.:17002177419

CONTACT DATA

Contact arrangement	1A		1C			
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)					
Contact material	AgSnO ₂ ,AgNi					
	1A 1C					
Contact rating	6A 250VAC			NO		NC
(Res. load)	-		6A	250VAC	5A	250VAC
	6A	30VDC	6A	30VDC	5A	30VDC
Max. switching voltage	30VDC / 277VAC					
Max. switching current	8A					
Max. switching power	180W/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)					
Notos: 1)The data shown	abov	o aro initial	valu	00		

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		
Surge vol	tage(Betwe	en coil & contacts)	10KV(1.2/50*s)		
Operate ti	me (at non	ni. volt.)	8ms max.		
Release time (at nomi. volt.)			5ms max.		
Temperatu	ure rise (at	nomi.volt.)	60K max.		
Shock resistance*		Functional	98m/s²		
		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)*Ir	Notes: 1)*Index is not in relay length direction.				

ay lengtr 2)The data shown above are initial values.

COIL
Coil power

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ISC



NGFA	RELAY	
9001	ISO/TS16949	19

- * 8A switching capability
- * 1 form A and 1 form C configurations
- * High sensitivity 200mW
- * Creepage/clearance distance:>6mm,meets VDE 0631 reinforce insulation
- * 5KV dielectric between coil to contacts
- * Class F insulation
- * Outline Dimensions: 20.0mm x 10mmx 10.6mm

at 23°C

COIL DATA

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.

2) 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				
OLICOL		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				
		8A 250/277VAC Resistive 85°C				
	1 Form A	6A 250/277VAC Resistive 85°C				
VDE	FOILTA	6A 30VDC Resistive 85°C AgSnO ₂				
		8A 30VDC Resistive 85°C AgSnO ₂				
		NO:8A 250/277VAC Resistive 85°C				
		NO:6A 250/277VAC Resistive 85°C				
	1 Form 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.

SO14001, OHSAS18001, IECQ QC 080000 CERTIFIED 2018 Rev. 1.01

Approx. 200mW

ORDERING INFORMATION						
HF		12	-H	Т	(XXX)	
Туре						
Coil voltage : 3,5,6,9,12	,18,24,36,48VDC	-				
Contact arrangement	H: 1 Form A	Z: 1 Form C				
Construction	T: AgSnO2	3: AgNi				
Special code ²⁾ XXX: Customer special requirement Nil: Standard						

Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S,SO₂,NO₂ 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

7.5

10

Outline Dimensions

1 Form A



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



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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