HF3FF

SUBMINIATURE HIGH POWER RELAY



(CQC)

File No.:E134517

File No.:40025218





File No.:CQC08002027861

CONTACT DATA

1A	1C	
100mΩ max.(at 1A_6VDC)		
AgSnO _{2,} AgCdO		
10A 277VAC/28VDC		
277VAC / 30VDC		
15A		
2770VA / 210W		
1 x 10 ⁷ 0PS		
1 x 10 ⁵ ops (NO, at 7A 250VAC)		
5 x 10 ⁴ ops (NO, at 10A 250VAC)		
	100mΩ max A 10A 2 27 15A 2 1 x 10 ⁵ ops (NO,	

CHARACTERISTICS

100MΩ (at 500VDC)			
C 1min			
C 1min			
10ms max			
5ms max.			
98m/s²			
80m/s²			
10Hz to 55Hz 1.5mm DA			
35% to 85% RH			
-40°C to 70°C			
PCB			
ox. 10g			
ealed, roofed			

Notes: 1) For sealed type, the vent-hole cover should be excised.2) The data shown above are initial values.3) Please find coil temperature curve in the characteristic curves below.

COL	
Coil power	5VDC to 24VDC: Approx. 360mW;
	48VDC: Approx. 510mW

Features

- 15A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- Class B insulation system
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (19.0 x 15.2 x 15.5) mm

		ATA			at 23°C
	Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω
	5	3.80	0.5	6.5	70 x (1±10%)
	6	4.50	0.6	7.8	100 x (1±10%)
	9	6.80	0.9	11.7	225 x (1±10%)
	12	9.00	1.2	15.6	400 x (1±10%)
-	18	13.5	1.8	23.4	900 x (1±10%)
	24	18.0	2.4	31.2	1600 x (1±10%)
	48	36.0	4.8	62.4	4500 x (1±10%)
	48 ¹⁾	36.0	4.8	62.4	6400 x (1±10%)

Notes: 1) There are 2 types for 48V--510mW and 360mW. The coil resistance for 510mW type is 45000hm while for that for 360mW type is 64000hm. If 360mW type is required, please add a special suffix (068) in the ordering information.

SAFETY APPROVAL RATINGS

UL/CUL		10A 277VAC / 28VDC
	1 Form A	TV-5 120VAC
		15A 125VAC
		12A 125VAC
		1/2HP 125VAC
	1 Form C	10A 277VAC / 28VDC
		10A 120VAC
		1/2 HP 125/250VAC
VDE (AgSnO2)	1 Form A	10A 250VAC
	TFORMA	12A 125VAC
	1 Form C	5A 250VAC
		NO: 10A 250VAC
		NO: 12A 125VAC

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

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

ORDERING INFORMATION

	HF3FF /	012	-1H	S	Т	(XXX)	
Туре							
Coil voltage 5, 6, 9, 12, 18, 24, 48VDC							
Contact arrangement 1H:1 Form A 1Z:1 Form C							
Construction 1) S: Plastic sealed Nil: Flux proofed							
Contact material	T: AgSnO ₂ N	lil: AgCdO					
Overtemen en esist es de							

Customer special code

Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



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.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER

ENDURANCE CURVE

COIL TEMPERATURE RISE







Percentage Of Nominal Coil Voltage (Relay mounting distance should be less than 10mm.)

Disclaimer

This datasheet is for the customers' reference. All the specifications are 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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