HF7FF

SUBMINIATURE INTERMEDIATE POWER RELAY





File No.:E134517

File No.:CQC09002028260

Features

COIL DATA

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Plastic sealed and flux proofed types available
- Class F, Class B and Class A insulation system
- Environmental friendly product (RoHS compliant)

at 23°C

Outline Dimensions: (22.5 x 16.5 x 16.5) mm

CONTACT DATA		
Contact arrangement	1A, 1C	
Contact resistance	100mΩ max.(at 1A 6VDC)	
Contact material	AgSnO _{2,} AgCe	
Contact rating	5A 250VAC/30VDC	
(Res. load)	10A 250VAC/28VDC	
Max. switching voltage	250VAC / 30VDC	
Max. switching current	10A	
Max. switching power	2400VA / 280W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS				
Insulation resistance)	100MΩ (at 500VDC)	
Dielectric	Between coil & contacts		1500VAC 1min	
strength	Between open contacts		750VAC 1min	
Operate time (at nomi. volt.)		ni. volt.)	10ms max.	
Release time (at nomi. volt.)		mi. volt.)	5ms max.	
Shock resistance		Functional	98m/s ²	
		Destructive	980m/s ²	
Vibration resistance			10Hz to 55Hz 1.5mm DA	
Humidity			35% to 95% RH	
Ambient temperature		е	-40°C to 70°C	
Termination			PCB	
Unit weight			Approx. 13g	
Construction			Plastic sealed, Flux proofed	

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

2) Please find coil temperature curve in the characteristic curves below.

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

COIL DATA				at 23 C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.40	0.3	3.6	25 x (1±10%)
5	4.00	0.5	6.0	70 x (1±10%)
6	4.80	0.6	7.2	100 x (1±10%)
9	7.20	0.9	10.8	225 x (1±10%)
12	9.60	1.2	14.4	400 x (1±10%)
18	14.4	1.8	21.6	900 x (1±10%)
24	19.2	2.4	28.8	1600 x (1±10%)
48	38.4	4.8	57.6	4500 x (1±10%)

SAFETY APPROVAL RATINGS				
	1 Form C	NO: 10A 277VAC		
		NO/NC: 5A 277VAC		
UL/CUL (AgCe)		NO: 5A 30VDC		
		NO: 4FLA 4LRA 120VAC		
		NC: 2FLA 4LRA 120VAC		
	1 Form A	10A 277VAC		
		6A 30VDC		
UL/CUL (AgSnO ₂₎	1 Form C	12A 277VAC		
		12A 28VDC		
	1 Form A	12A 277VAC		
		12A 28VDC		

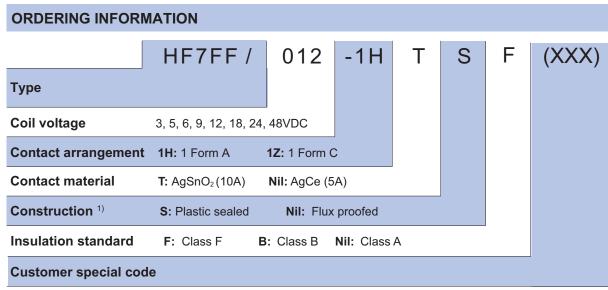
Notes: Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY

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

2011 Rev. 1.00



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.

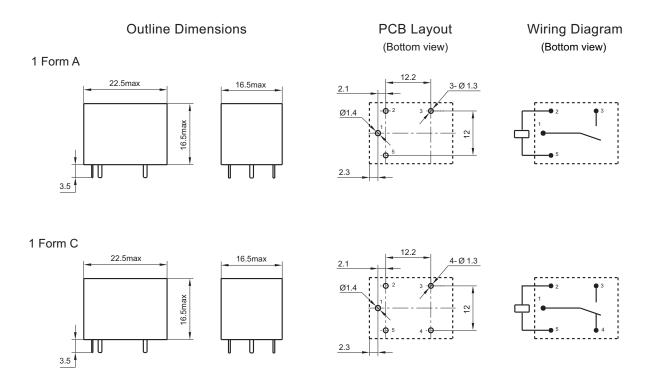
If the ambience allows, flux proofed type is preferentially recommended.

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

2) If the application belongs to inductive load, AgSnO2ln2O3 contact material is recommended. Please add a special suffix (325) to stand for this special contact material in the ordering information.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

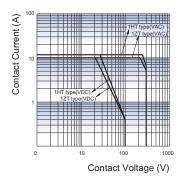


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

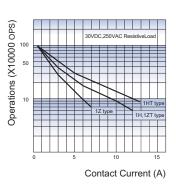
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES

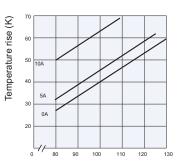
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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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