

Ihr Partner für Kontakt-Bauelemente

HF3FA

SUBMINIATURE HIGH POWER RELAY



File No.: E134517



File No.: 40023708



File No.:CQC12002076529



Features

- 15A switching capability
- Flammability class according to UL94, V-0
- CTI 250 available
- Product in accordance to IEC 60335-1 available
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (19.0 x 15.5 x 15.5) mm

CONTACT DATA				
Contact arrangement		1C		
	1A	NO	NC	
Contact resistance	100mΩ max.(at 1A 6VDC			
Contact material	AgSnO ₂			
Contact rating	10A 277VAC	10A 277VAC ¹⁾	5A 250VAC	
(Res. load)	10A 28VDC	10A 28VDC ¹⁾		
Max. switching voltage	277VAC/28VDC		250VAC	
Max. switching current	15A	10A	5A	
Max. switching power	2770VA /280W			
Mechanical endurance	1 x 10 ⁷ ops			
	H type:1 x 10⁵ops			
	(10A 250VAC Resistive load,			
Electrical endurance	Room temp., 3s on 3s off)			
	Z type:5 x 10 ⁴ ops			
	(NO: 5A/NC: 5A 250VAC, Resistive load,			
	Room temp., 5s on 5s off)			

Notes: 1) Applicable when NC is not energized with load.

CHARACTERISTICS			
Insulation resistance			100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts		2500VAC 1min
	Between open contacts		750VAC 1min
Operate time (at nomi. volt.)		10ms max	
Release time (at nomi. volt.)		5ms max.	
Shock resistance		Functional	98m/s²
		Destructive	980m/s²
Vibration resistance			10Hz to 55Hz 1.5mm DA
Humidity		5% to 85%	
Ambient temperature		-40°C to 85°C	
Termination			РСВ
Unit weight		Approx. 7.0g	
Construction			Plastic sealed, Flux proofed

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

COIL				
Coil power				Approx. 360mW
COIL E	DATA			at 23°C
Nominal Voltage	Pick-up Voltage	Drop-out Voltage	Max. Voltage	Coil Resistance

				41200		
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Voltage VDC *	Coil Resistance Ω		
3	2.25	0.3	3.9	25 x (1±10%)		
5	3.75	0.5	6.5	70 x (1±10%)		
6	4.50	0.6	7.8	100 x (1±10%)		
9	6.75	0.9	11.7	225 x (1±10%)		
12	9.00	1.2	15.6	400 x (1±10%)		
15	11.25	1.5	19.5	625 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	54.4	6400 x (1±10%)		

Notes: *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL		10A 250VAC at 85°C
	1 Form A	8A 277VAC at 85°C
		6A 250VAC at 105°C
		15A 125VAC
		TV-5 120VAC
	1 Form C	NO/NC: 5A/5A 277VAC at 85°C
VDE	4.5	6A 250VAC at 105°C
	1 Form A	10A 250VAC at 85°C
		NO: 10A 250VAC at 85°C
	1 Form C	NO: 6A 250VAC at 105°C
		NO/NC: 5A/5A 250VAC at 85°C

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

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- Only typical loads are listed above. Other load specifications can be available upon request.
- 3) For sealed type, the vent-hole cover should be excised.

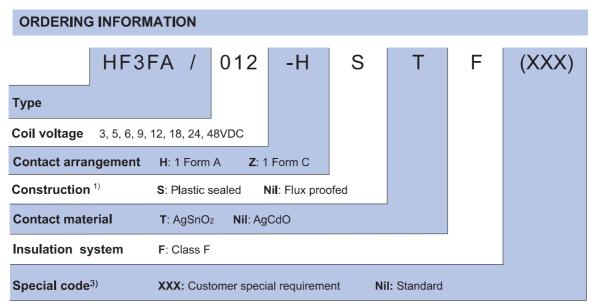


HONGFA RELAY

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

2015 Rev. 1.11

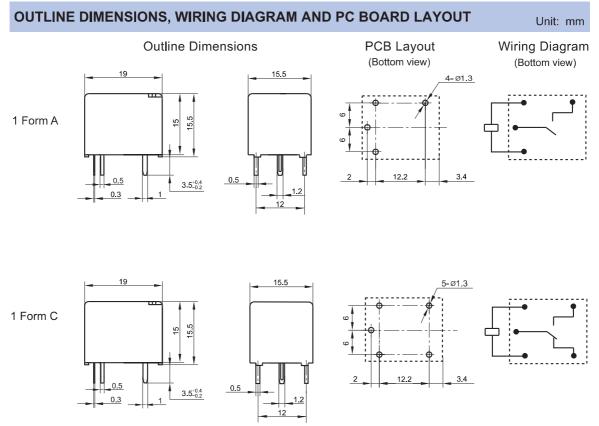




Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc).

- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) The customer special requirement express as special code after evaluating by Hongfa. e.g.(335) stands for product in accordance to IEC 60335-1 (GWT).



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.

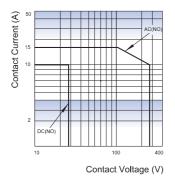
2) The tolerance without indicating for PCB layout is always ±0.1mm.



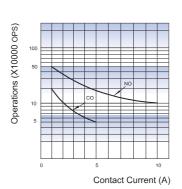
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CHARACTERISTIC CURVES

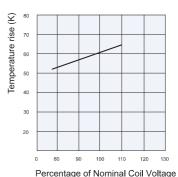
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Test conditions: at 85°C, 6A Mounting distance: 10mm

Test conditions:

NO: Resistive load, Flux proofed, Room temp., 1s on 9s off CO:Resistive load, Flux proofed, Room temp., 3s on 3s 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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