HF36F (JZC-36F)

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:R50012558



Electrical endurance

File No.:CQC02001001944



1 x 10⁵ops

Features

- 10A switching capability
- Wash tight and flux proofed types available
- TV-5 125VAC approved by UL standard (only for 1 Form A)
- 1 Form A and 1 Form C configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (23.8 x 9.5 x 24.5) mm

CONTACT DATA 1A,1C Contact arrangement Contact resistance 100mΩ (at 1A 6VDC) AgSnO₂, AgCdO Contact material 10A 250VAC Contact rating 10A 30VDC TV-5 125VAC 250VAC / 30VDC Max. switching voltage Max. switching current 10A Max. switching power 2500VA / 300W Mechanical endurance 1 x 10⁷OPS

CHARACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	NO: 4000VAC 1min NC: 3000VAC 1min	
	Between open contacts	1000VAC 1min	
Operate ti	me (at nomi. volt.)	15ms max.	
Release time (at nomi. volt.)		5ms max.	
Humidity		35% to 85% RH	
Ambient temperature		-40°C to 70°C	
Shock resistance	Functional	200m/s ² (20g)	
	Destructive	1000m/s ² (100g)	
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Termination		PCB	
Unit weight		Approx.12g	
Construction		Wash tight, 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	Sensitive: 250mW;	Standard: 530mW

COIL DATA at 23°C

Standard Type				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.25	6.5	47 x (1±10%)
6	4.50	0.30	7.8	68 x (1±10%)
9	6.75	0.45	11.7	155 x (1±10%)
12	9.00	0.60	15.6	270 x (1±10%)
18	13.5	0.90	23.4	620 x (1±10%)
24	18.0	1.20	31.2	1080 x (1±10%)
48	36.0	2.40	62.4	4400 x (1±10%)

Sensitive Type (Only for 1 Form A)

Complete Type (City for Treatment)				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance (Ω)
5	3.75	0.25	6.5	100 x (1±10%)
6	4.50	0.30	7.8	145 x (1±10%)
9	6.75	0.45	11.7	325 x (1±10%)
12	9.00	0.60	15.6	575 x (1±10%)
18	13.5	0.90	23.4	1300 x (1±10%)
24	18.0	1.20	31.2	2310 x (1±10%)

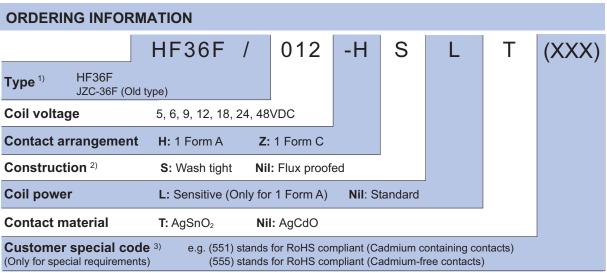
SAFETY APPROVAL RATINGS				
UL&CUR	1 Form C	10A 250VAC 10A 30VDC		
	1 Form A	10A 250VAC 10A 30VDC TV-5 125VAC		
ΤÜV	10A 250VAC cosø =1 10A 30VDC L/R=0			

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



ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 2.00



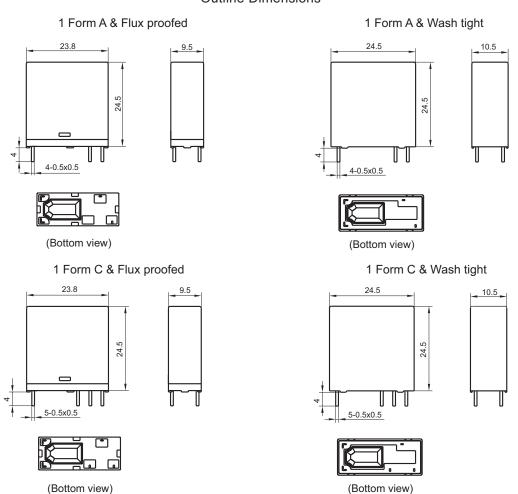
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

- 2) Under the ambience with dangerous gas like H2S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.
- 3) HF36F is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.t

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

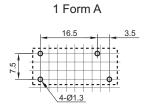


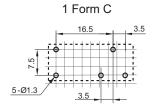
Wiring Diagram (Bottom view)





PCB Layout (Bottom view)

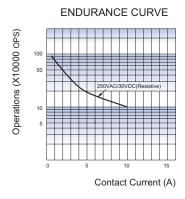


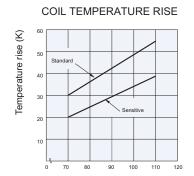


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES





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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.