



ROBERT STĘPIEŃ
HURTOWNIA CZĘŚCI ELEKTRONICZNYCH
podzespoly-elektroniczne.pl

Przełącznik JQX/HF118F-012-1HS5T; Hongfa;8A;12V; odp.RM96Z-12VDC/HF68F



Dane techniczne:

Nazwa: JQX/HF118F-012-1HS5T

Napięcie sterujące: 12V

Rodzaj napięcia sterującego: DC

Konfiguracja styków: 1 styk zwierny

Znamionowy prąd styków AC: 10A

Znamionowe napięcie styków AC: 250V AC

Znamionowy prąd styków DC: 10A

Znamionowe napięcie styków DC: 30V DC

Sposób montażu: do druku (PCB)

Producent: Hongfa

Certyfikaty: RoHS

Materiał styku: AgSnO₂

Rezystancja cewki: 620Ohm

Producent: HONGFA

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Robert Stępień Hurtownia Części Elektronicznych; Adres: ul. Wolumen 2, pawilon 71; 01-912 Warszawa; tel.: 601 296 402 /
sklep@podzespoly-elektroniczne.pl

HF68F

MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:129371



File No.:CQC02001001945



Features

- Low height 12.3 mm
- 8A switching capability
- 5kV dielectric strength (between coil and contacts)
- Creepage distance >8mm
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.5 x 10.1 x 12.3) mm

CONTACT DATA

Contact arrangement	1A, 1C
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	See ordering info.
Contact rating (Res. load)	8A 250VAC/30VDC
Max. switching voltage	440VAC / 125VDC
Max. switching current	10A
Max. switching power	2000VA / 240W (at 0.5HP 250VAC)
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops (See approval reports for more details)

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2X50μs)
Operate time (at nomi. volt.)		15ms max.
Release time (at nomi. volt.)		8ms max.
Temperature rise (at nomi. volt.)		55K max.
Humidity		35% to 85% RH
Ambient temperature		-40°C to 85°C
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz to 500Hz 20g/5g
Termination		PCB
Unit weight		Approx. 8.2g
Construction		Wash tight, Flux proofed

Notes: The data shown above are initial values.

COIL

Coil power 5 to 24VDC: 220mW; 48 to 60VDC: 290mW

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.50	11.8	113 x (1±10%)
6	4.50	0.60	14.1	164 x (1±10%)
12	9.00	1.20	28.2	620 x (1±10%)
18	13.50	1.80	42.3	1295 x (1±10%)
24	18.00	2.40	56.4	2350 x (1±10%)
48	36.00	4.80	112.8	9600 x (1±15%)
60	45.00	6.00	141.0	12500 x (1±15%)

Notes: The max. allowable voltage in the COIL DATA is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in a very short time.

SAFETY APPROVAL RATINGS

UL&CUL	AgCdO	8A 250VAC/30VDC 10A/250VAC B300, R300 Pilot duty	
	AgSnO ₂	8A 250VAC/30VDC	
VDE		Specifications	Ratings
	AgCdO	HF68F...1 (H;Z)(S)(G)(F)	8A 250VAC COSØ =1 at 70°C
	AgNi	HF68F...1 (H;Z)(S)(B)(G)(F)	8A 250VAC COSØ =1 at 85°C 5A 400VAC COSØ =1 at 85°C
	AgSnO ₂	HF68F...1 (H;Z)(S)(T)(G)(F)	8A 250VAC COSØ =1 at 85°C 10A/4A 250VAC COSØ =1 at 50°C

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

2008 Rev. 1.00

ORDERING INFORMATION

HF68F / 012 -1H S G F (XXX)	
Type	
Coil voltage	5, 6, 12, 18, 24, 48, 60VDC
Contact arrangement	1H: 1 Form A 1Z: 1 Form C
Construction ¹⁾	S: Wash tight Nil: Flux proofed
Contact material ²⁾	G: AgCdO+ Au plated T: AgSnO ₂ B: AgNi BG: AgNi+ Au plated Nil: AgCdO
Insulation standard	F: Class F Nil: Class B
Customer special code	

Notes: 1) 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.

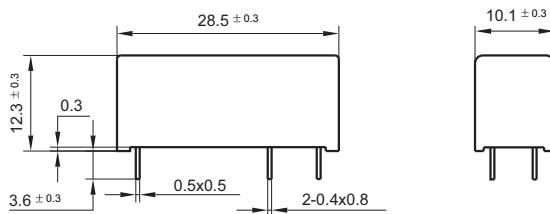
2) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

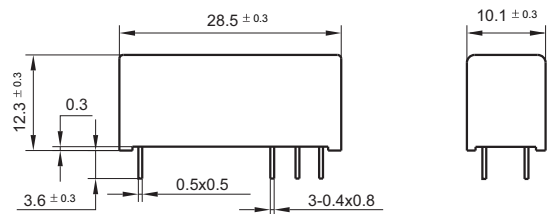
Unit: mm

Outline Dimensions

1 Form A (5mm Pinning)

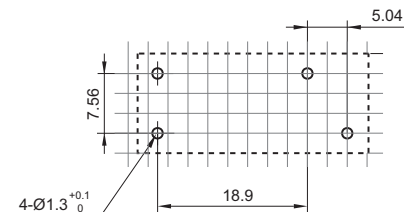


1 Form C (3.2mm Pinning)

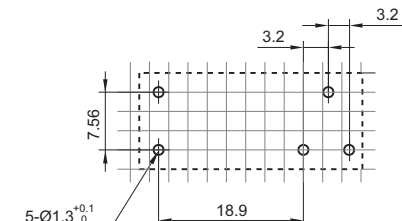


PCB Layout (Bottom view)

1 Form A (5mm Pinning)



1 Form C (3.2mm Pinning)



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

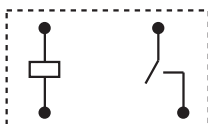
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

3) The width of the gridding is 2.52mm.

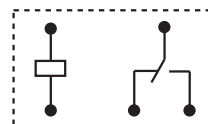
Wiring Diagram

(Bottom view)

1 Form A

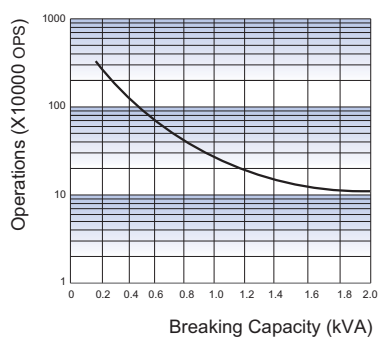


1 Form C

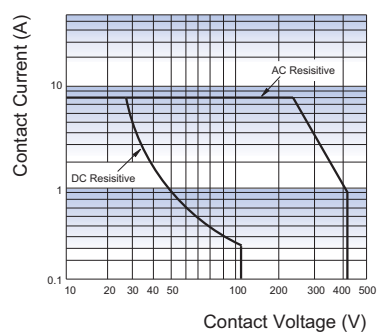


CHARACTERISTIC CURVES

ENDURANCE CURVE



MAXIMUM SWITCHING POWER



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.