

HF36F (JZC-36F)**SUBMINIATURE INTERMEDIATE POWER RELAY**

File No.:E134517



File No.:R50012558



File No.:CQC02001001944

**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

Contact arrangement	1A ,1C
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating	10A 250VAC 10A 30VDC TV-5 125VAC
Max. switching voltage	250VAC / 30VDC
Max. switching current	10A
Max. switching power	2500VA / 300W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS

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)

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
TÜV		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.

COIL

Coil power	Sensitive: 250mW; Standard: 530mW
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ORDERING INFORMATION

	HF36F /	012	-H	S	L	T	(XXX)
Type ¹⁾	HF36F JZC-36F (Old type)						
Coil voltage	5, 6, 9, 12, 18, 24, 48VDC						
Contact arrangement	H: 1 Form A Z: 1 Form C						
Construction ²⁾	S: Wash tight Nil: Flux proofed						
Coil power	L: Sensitive (Only for 1 Form A) Nil: Standard						
Contact material	T: AgSnO ₂ Nil: AgCdO						
Customer special code ³⁾ (Only for special requirements)	e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (555) stands for RoHS compliant (Cadmium-free contacts)						

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.

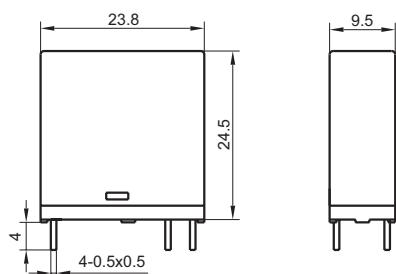
3) HF36F is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.t

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

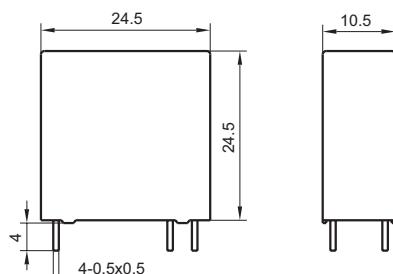
Outline Dimensions

1 Form A & Flux proofed



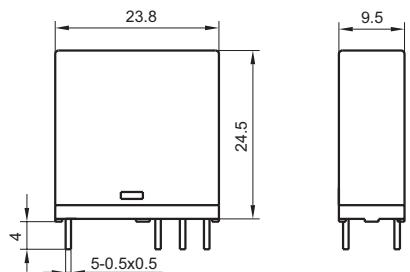
(Bottom view)

1 Form A & Wash tight



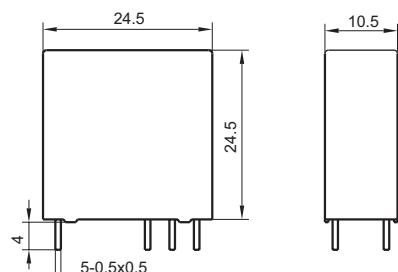
(Bottom view)

1 Form C & Flux proofed



(Bottom view)

1 Form C & Wash tight



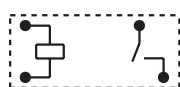
(Bottom view)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

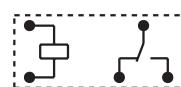
Unit: mm

Wiring Diagram
(Bottom view)

1 Form A

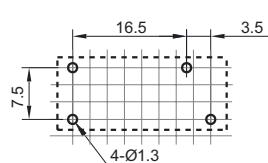


1 Form C

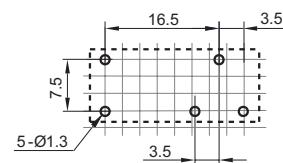


PCB Layout
(Bottom view)

1 Form A



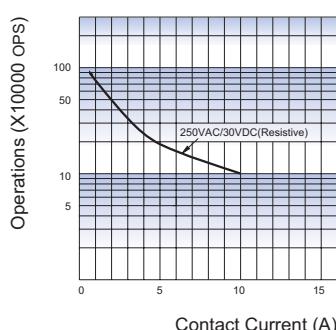
1 Form C



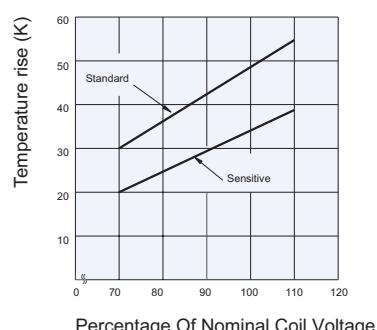
- Remark:
- In case of no tolerance shown in outline dimension: outline dimension \leqslant 1mm, tolerance should be ± 0.2 mm; outline dimension $>$ 1mm and \leqslant 5mm, tolerance should be ± 0.3 mm; outline dimension $>$ 5mm, tolerance should be ± 0.4 mm.
 - The tolerance without indicating for PCB layout is always ± 0.1 mm.
 - The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES

ENDURANCE CURVE



COIL TEMPERATURE RISE



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.