

# JZC-36F (HF36F)

# SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:R50012558



File No.:CQC02001001944



## Features

- 10A switching capability
- Sealed and unsealed 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 available (RoHS compliant)
- Outline Dimensions: 23.8 x 9.5 x 24.5 mm

## CONTACT DATA

Contact arrangement	1A, 1C
Initial contact resistance Max.	100mΩ (at 1A 6VDC)
Contact material	AgSnO <sub>2</sub> , 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 life	1 x 10 <sup>7</sup> OPS
Electrical life	1 x 10 <sup>6</sup> OPS

## COIL DATA

### Standard Type

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω)
5	3.75	0.25	6.5	47 ± 10%
6	4.50	0.30	7.8	68 ± 10%
9	6.75	0.45	11.7	155 ± 10%
12	9.00	0.60	15.6	270 ± 10%
18	13.5	0.90	23.4	620 ± 10%
24	18.0	1.20	31.2	1080 ± 10%
48	36.0	2.40	62.4	4400 ± 10%

### Sensitive Type (Only for 1 Form A)

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω)
5	3.75	0.25	6.5	100 ± 10%
6	4.50	0.30	7.8	145 ± 10%
9	6.75	0.45	11.7	325 ± 10%
12	9.00	0.60	15.6	575 ± 10%
18	13.5	0.90	23.4	1300 ± 10%
24	18.0	1.20	31.2	2310 ± 10%

## CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts NO: 4000VAC 1min. NC: 3000VAC 1min.
	Between open contacts 1000VAC 1min.
Operate time (at nomi. volt.)	Max. 15ms
Release time (at nomi. volt.)	Max. 5ms
Temperature rise (at nomi. volt.)	Max. 55°C
Humidity	35 to 85% RH
Ambient temperature	-40°C to +70°C
Shock resistance	Functional 200m/s <sup>2</sup>
	Destructive 1000m/s <sup>2</sup>
Vibration resistance	10 to 55Hz 1.5mm
Termination	PCB
Unit weight	Approx. 12g
Construction	Sealed IP67, Unsealed

## COIL

Coil power	Sensitive: 250mW; Standard: 530mW
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## 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 cosφ =1 10A 30VDC L/R=0



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2006 Rev. 1.10

## ORDERING INFORMATION

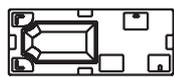
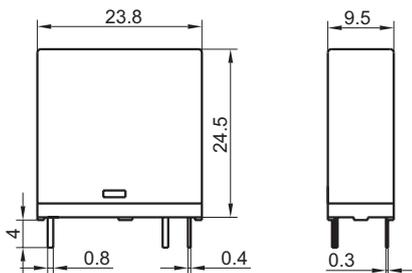
<b>JZC-36F / 012 H S L T XXX</b>	
<b>Type</b>	
<b>Coil voltage</b>	5, 6, 9, 12, 18, 24, 48VDC
<b>Contact arrangement</b>	H:1 Form A Z:1 Form C
<b>Construction</b>	S: Sealed Nil: Unsealed
<b>Coil power</b>	L: Sensitive(Only for 1 Form A) Nil: Standard
<b>Contact material</b>	T: AgSnO <sub>2</sub> Nil: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

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

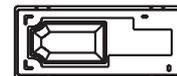
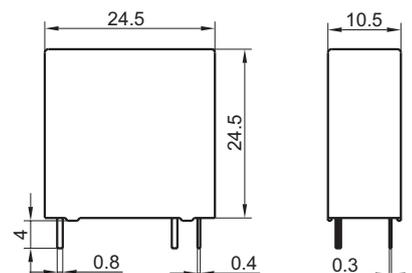
### Outline Dimensions

1 Form A & Unsealed



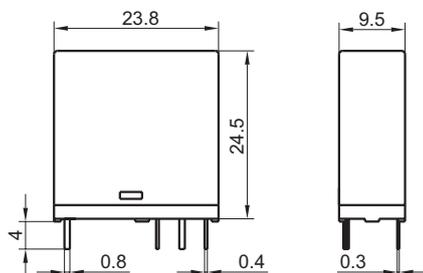
(Bottom view)

1 Form A & Sealed



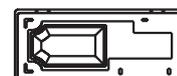
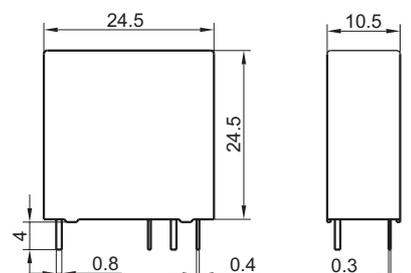
(Bottom view)

1 Form C & Unsealed



(Bottom view)

1 Form C & Sealed



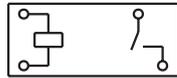
(Bottom view)

# OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

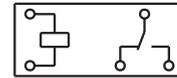
## Wiring Diagram

1 Form A



(Bottom view)

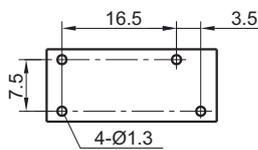
1 Form C



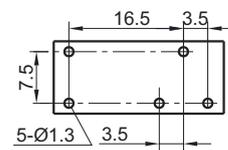
(Bottom view)

## PCB Layout

1 Form A

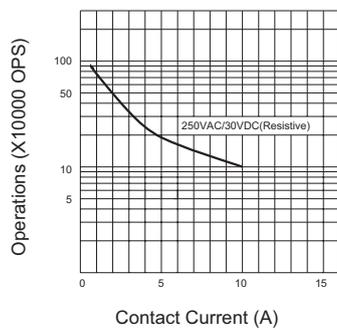


1 Form C

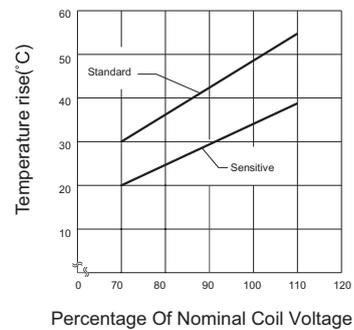


# CHARACTERISTIC CURVES

LIFE 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.

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