

JZC-49F/49FA (HF49F/HF49FA) MINIATURE POWER RELAY



File No.:E133481



File No.:R50035304



File No.:CQC02001001937



Features

- 5A switching capability
- 2kV dielectric strength (between coil and contacts)
- Surge voltage up to 4000VAC (between coil and contacts)
- Slim size (width 5mm, height 12.5mm)
- High sensitive: 120mW
- JZC-49FA's size and terminals compatible with JGC-8F (Output module) and HF5420 SSR
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 20.0 x 5.0 x 12.5mm

CONTACT DATA

Contact arrangement	1A
Initial contact Resistance Max.	50mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC / 110VDC
Max. switching current	5A
Max. switching power	1250VA / 150W
Mechanical life	2 x 10 ⁷ OPS (72000 OPS/h)
Electrical life	1x10 ⁵ OPS (360 OPS/h)

CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	2000VAC 1 min.
	Between open contacts	1000VAC 1 min.
Surge voltage (between coil & contacts)	4000V (1.2x50us)	
Operate time (at nomi.volt.)	Max. 10ms	
Release time (at nomi.volt.)	Max. 5ms	
Temperature rise (at nomi.volt.)	45°C	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10 to 55Hz 1.5mm DA	
Humidity	5 to 85% RH	
Ambient temperature	-40°C to +85°C	
Termination	PCB	
Unit weight	3g	
Construction	Sealed IP67	

COIL

Coil power	120 to 180mW
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COIL DATA

at 20°C

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC)	Coil Resistance (Ω)
5	3.50	0.25	6.0	208 ± 10%
6	4.20	0.30	7.2	300 ± 10%
9	6.30	0.45	10.8	675 ± 10%
12	8.40	0.60	14.4	1200 ± 10%
18	12.6	0.90	21.6	2700 ± 15%
24	16.8	1.20	28.8	3200 ± 15%

Notes: All above data are tested when the relays terminals are downward position. Other positions of the terminals, the pick-up and drop-out voltages will have ±5% tolerance. For example, when the relay terminals are transverse position, the max. pick-up voltage change is 75% of nominal voltage.

SAFETY APPROVAL RATINGS

UL&CUR	5A 30VDC L/R=0ms
	5A 250VAC COSØ=1
	3A 250VAC cosphi=1
TÜV	5A 250VAC COSØ=1
	5A 30VDC L/R=0ms



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2006 Rev. 1.11

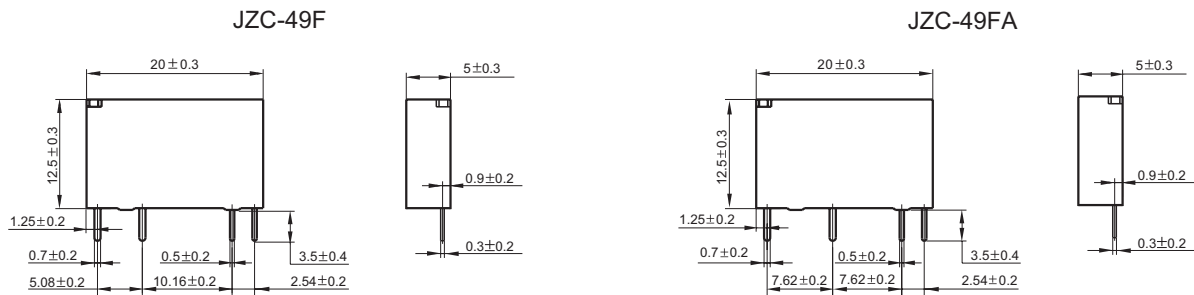
ORDERING INFORMATION

Type	JZC-49F / JZC-49FA	012	1H	1	G	T	F	XXX
Coil voltage	5, 6, 9, 12, 18, 24 VDC							
Contact arrangement	1H: 1 Form A							
Contact version	1: Single contact		2: Bifurcated contact					
Contact plating	G: Gold plated		Nil: No gold plated					
Contact material	T: AgSnO ₂ (Only for single contact)		Nil: AgNi					
Insulation standard	B: Class B		F: Class F		Nil: Class A			
Customer special code	Only for special requirements, e.g. 555 stands for RoHS compliant							

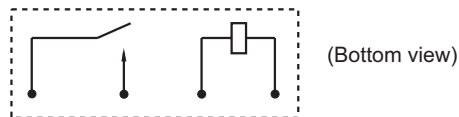
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

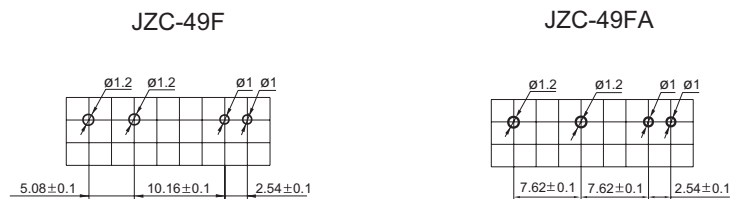
Outline Dimensions



Wiring Diagram

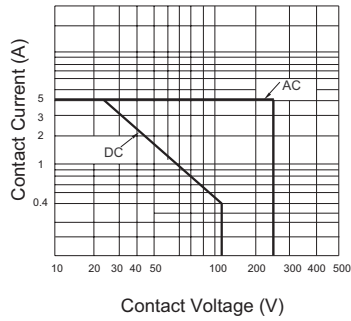


PCB Layout

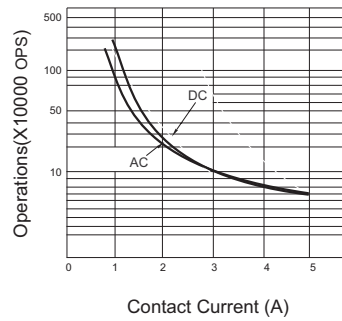


CHARACTERISTIC CURVES

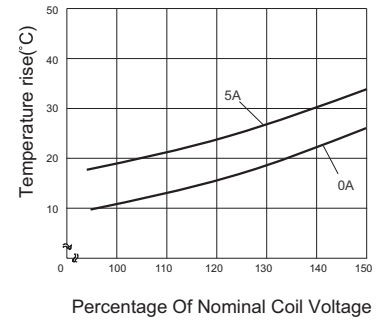
MAXIMUM SWITCHING POWER



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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