

# JQC-3FF

# SUBMINIATURE HIGH POWER RELAY



File No.:R50034671



File No.:E133481



File No.:CQC02001001953



### Features

- \* Extremely low cost
- \* SPST-NO & SPDT configuration
- \* Subminiature, standard PCB layout
- \* Sealed IP67 and Flux proof types available

### CONTACT DATA

Contact Arrangement	1A	1C
Initial Contact Resistance Max.	100mΩ (at 1A 6VDC)	
Contact Material	Silver Alloy	
Contact Rating (Res. Load)	10A 277VAC	7A 250VDC 10A 277VAC
Max. switching voltage	277VAC/30VDC	
Max. switching current	15A	10A
Max. switching power	2770VA 210W	
Mechanical life	1 x 10 <sup>7</sup> OPS	
Electrical life	1 x 10 <sup>5</sup> OPS	

### COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 25°C)	Coil Resistance Ω
5	3.80	0.5	6.5	70 ± 10%
6	4.50	0.6	7.8	100 ± 10%
9	6.80	0.9	11.7	225 ± 10%
12	9.00	1.2	15.6	400 ± 10%
18	13.5	1.8	23.4	900 ± 10%
24	18.0	2.4	31.2	1600 ± 10%
48	36.0	4.8	62.4	4500 ± 10%

### CHARACTERISTICS

Initial Insulation Resistance	100MΩ ,500VDC	
Dielectric Strength	Between coil and contacts	1500VAC, 1min
	Between open contacts	750VAC, 1min
Operate time (at nomi. Volt.)	Max. 10ms	
Release time (at nomi. Volt.)	Max. 5ms	
Temperature rise (at nomi. Volt.)	Max. 60°C	
Shock Resistance	Functional	98 m/s <sup>2</sup> (10g)
	Destructive	980 m/s <sup>2</sup> (100g)
Vibration Resistance	1.5mm, 10 to 55Hz	
Humidity	35% to 85%RH	
Ambient temperature	-40°C to +85°C	
Termination	PCB	
Unit weight	Approx. 10g	
Construction	Sealed IP67 & Flux proof	

### SAFETY APPROVAL RATINGS

UL	1 Form C	10A 277 VAC 10A 120VAC 1/2 HP 125/250VAC
	1 Form A	10A 277VAC TV-5 120VAC 15A 125VAC 120VAC 125VAC 1/2hp,125VAC
Tüv	1 Form C	8A 250VAC 12A 125VAC cos phi=1 5A 250VAC cos phi=1
	1 Form A	10A 277VAC 12A 125VAC cos phi=1 5A 250VAC cos phi=1

### COIL

Coil power	0.36W*48VDC : 0.51W*
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勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



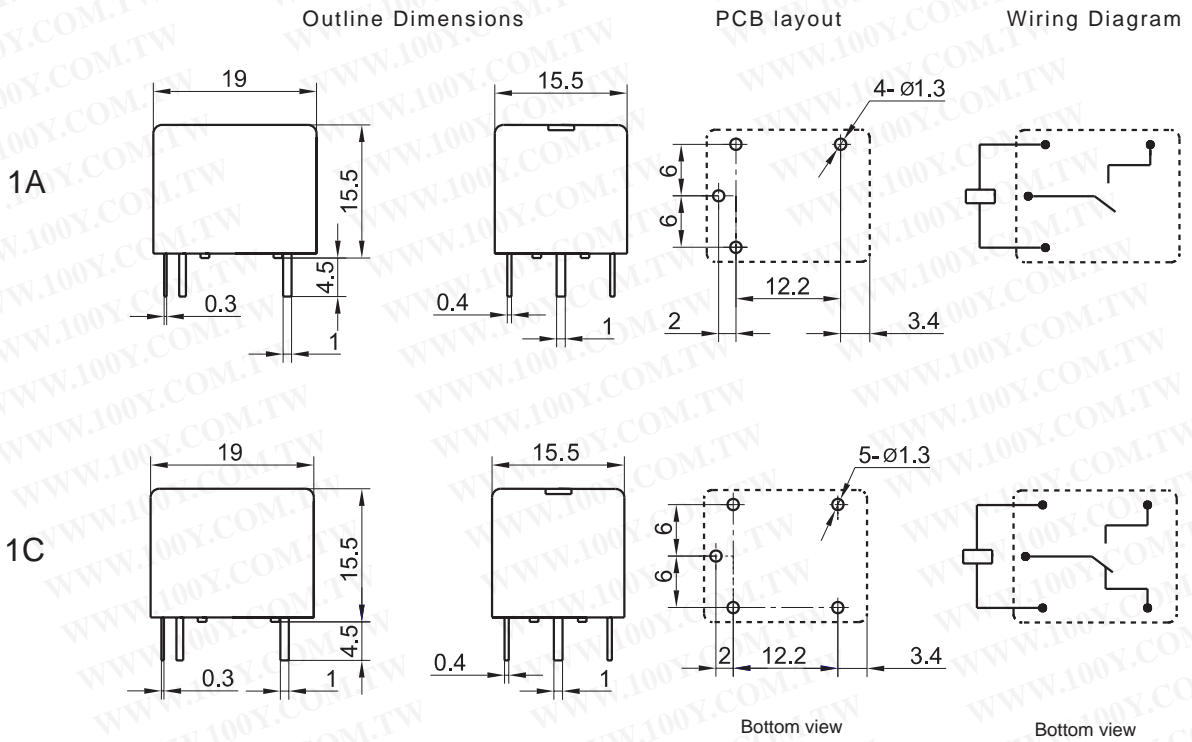
HONGFA RELAY  
ISO9001\*ISO/TS16949 \*ISO14001 CERTIFIED

VERSION: EN02-20040601

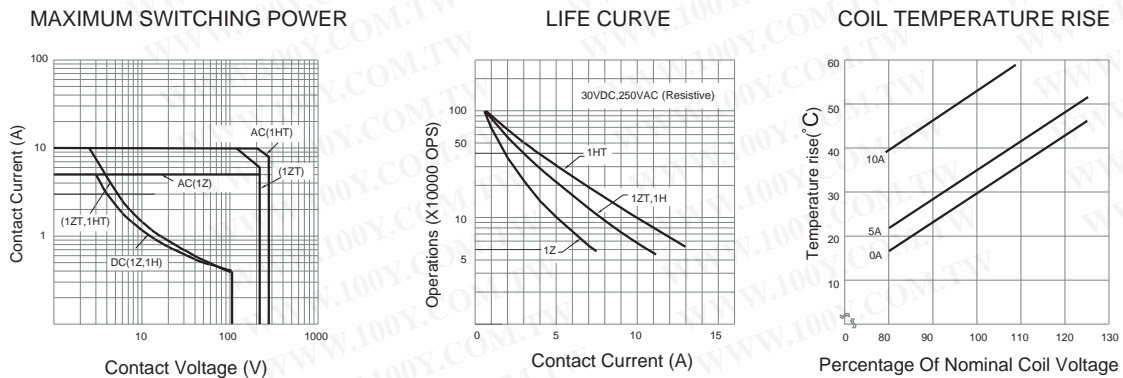
## ORDERING INFORMATION

JQC-3FF / 012		1H	S	T	F
Type					
Coil voltage	5, 6, 9, 12, 18, 24, 48VDC				
Contact arrangement	1H:1 Form A (SPST-NO) 1Z:1 Form C (SPDT)				
Structure	S: Sealed IP67 Nil: Flux proof				
Contact Material	T: AgSnO <sub>2</sub> Nil: AgCdo				
Insulation System	F: Class F 155°C Nil: Class B 130°C				

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



## CHARACTERISTICS CURVE



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