JQC-3FF(HF3FF)

SUBMINIATURE HIGH POWER RELAY



File No.:E133481



File No.:R50034671



File No.:CQC02001001953



Features

- 15A switching capability
- Extremely low cost
- 1 From A and 1 From C configurations
- Subminiature, standard PCB layout
- Sealed IP67 and flux proof types available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 19.0 x 15.5 x 15.0 mm

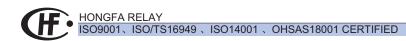
CONTACT DATA		
Contact arrangement	1A	1C
Initial contact	100mΩ	
resistance Max.		(at 1A 6VDC)
Contact material	AgSnO _{2,} AgCdC	
Contact rating (Res. load)	10A 277VAC/28VDC	
Max. switching voltage	277VAC / 30VDC	
Max. switching current	lax. switching current 15A	
Max. switching power	2770VA / 210W	
Mechanical life	1 x 10 ⁷ ops	
Electrical life	1 x 10⁵ops	

CHARACTERISTICS				
Initial insulation resistance		100MΩ (at 500VDC)		
Dielectric	Between coil & contacts		1500VAC 1min.	
strength	Between	n 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		
	Functional	98m/s² (10g)		
Shock resistance		Destructive	980m/s² (100g	
Vibration resistance		10 to 55Hz 1.5mm		
Humidity		35 to 85% RH		
Ambient temperature		-40°C to +85°C		
Termination		PCB		
Unit weight		Approx. 10g		
Construction		Sealed IP67, Flux proof		

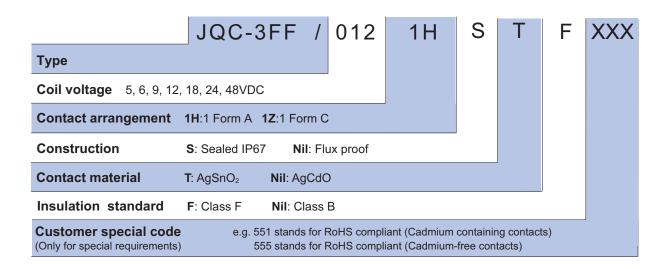
COIL		
Coil power	5 to 24VDC: 360mW;	48VDC: 510mW

COIL DATA				
Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 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%

SAFETY APPROVAL RATINGS			
UL&CUR	1 Form A	10A 277VAC	
		TV-5 120VAC	
		15A 125VAC	
		120VAC 125VAC	
		1/2hp,125VAC	
	1 Form C	10A 277 VAC	
		10A 120VAC	
		1/2 HP 125/250VAC	
тüν		10A 277VAC	
	1 Form A	12A 125VAC COSØ =1	
		5A 250VAC COSØ =1	
	1 Form C	8A 250VAC	
		12A 125VAC COSØ =1	
		5A 250VAC COSØ =1	

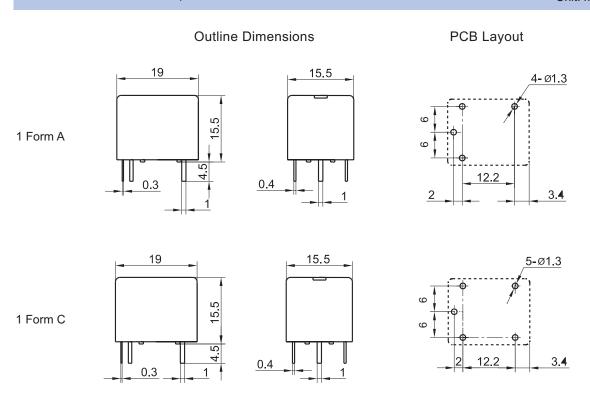


ORDERING INFORMATION



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

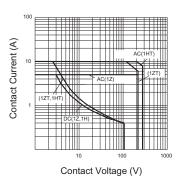


Wiring Diagram (Bottom view)

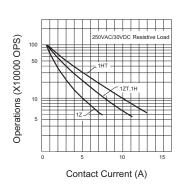


CHARACTERISTIC CURVES

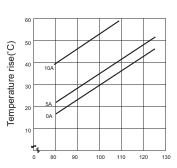
MAXIMUM SWITCHING POWER



LIFE CURVE



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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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