JQC-3FF(HF3FF)

SUBMINIATURE HIGH POWER RELAY



File No.:R50034671



File No.:E133481



File No.:CQC02001001953



Features

- 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

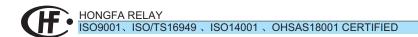
CONTACT DATA Contact arrangement 1A 1C $100 \text{m}\Omega$ Initial contact resistance Max. (at 1A 6VDC) Contact material AgSnO₂, AgCdO 10A 277VAC 10A 277VAC Contact rating (Res. load) 277VAC / 30VDC Max. switching voltage Max. switching current 15A 10A 2770VA / 210W Max. switching power 1 x 10⁷OPS Mechanical life 1 x 10⁵ops Electrical life

CHARACTERISTICS						
Initial insul	ation resi	100MΩ (at 500VDC)				
Dielectric strength	Between coil & contacts		1500VAC 1min.			
	Between open contacts		750VAC 1min.			
Operate tir	ne (at nor	Max. 10ms				
Release time (at nomi. volt.)			Max. 5ms			
Temperature rise (at nomi. volt.)			Max. 60°C			
Shock resistance		Functional	98m/s² (10g)			
		Destructive	980m/s² (100g)			
Vibration r	esistance	10 to 55Hz 1.5mm				
Humidity		35 to 85% RH				
Ambient te	mperatur	-40°C to +85°C				
Terminatio	n	PCB				
Unit weigh	t	Approx. 10g				
Construction	on	Sealed IP67, Flux proof				

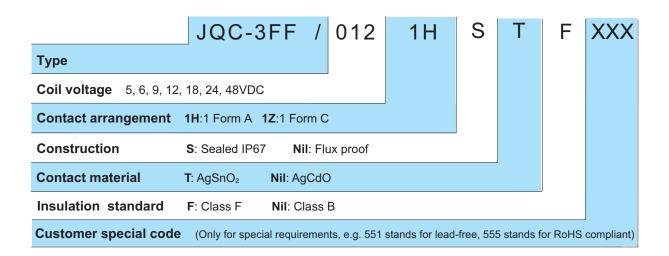
COIL		
Coil power	5 to 24VDC: 360mW;	48VDC: 510mW

COIL	OIL 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						
		10A 277VAC				
		TV-5 120VAC				
	1 Form A	15A 125VAC				
		120VAC 125VAC				
UL		1/2hp,125VAC				
	1 Form C	10A 277 VAC				
		10A 120VAC				
		1/2 HP 125/250VAC				
		10A 277VAC				
	1 Form A	12A 125VAC COSØ =1				
TÜV		5A 250VAC COSØ =1				
iuv		8A 250VAC				
	1 Form C	12A 125VAC COSØ =1				
		5A 250VAC COSØ =1				

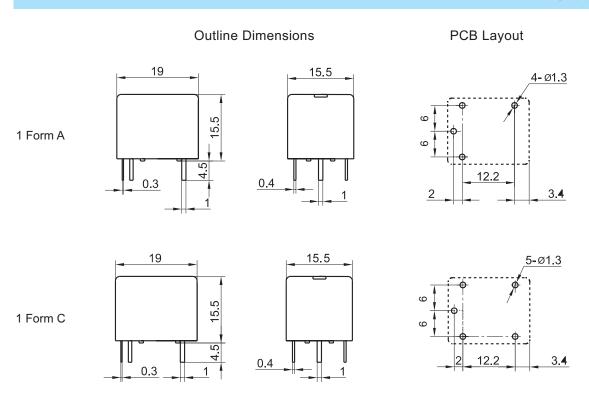


ORDERING INFORMATION



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

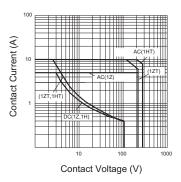


Wiring Diagram (Bottom view)

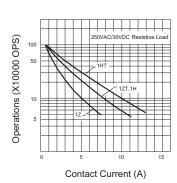


CHARACTERISTIC CURVES

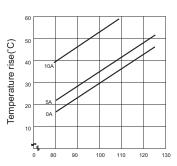
MAXIMUM SWITCHING POWER



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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