

# JQX-54FE

# MINIATURE HIGH POWER RELAY



048D-H3  
COIL 48VDC  
CONTACT  
20A 220VAC  
1.5HP 250VAC  
CHINA

**Features**

- \* 25A switching capabilities
- \* SPST-No configurations
- \* Withstand inrush current of 60 A
- \* PCB and QC terminal

**cULus**  
File No.:E134517

**CQC**  
File No.:CQC02001001955

## CONTACT DATA

Contact Arrangement	1A
Initial Contact Resistance Max.	50mΩ (at 1A 6VDC)
Contact Material	AgSnO,AgCdO
Contact Rating (Res. Load)	25A 250VAC
Max. switching voltage	250VAC
Max. switching current	25A
Max. switching power	6250VA/450W
Mechanical life	5 x 10 <sup>6</sup> OPS
Electrical life	1x 10 <sup>5</sup> OPS

## COIL

Coil power	0.9W
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## COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
5	3.50	0.50	5.5	27.8 ± 10%
6	4.20	0.60	6.6	40 ± 10%
12	8.40	1.20	13.2	160 ± 10%
24	16.8	2.40	26.4	640 ± 10%
48	33.6	4.80	52.8	2560 ± 10%

## CHARACTERISTICS

Initial Insulation Resistance	1000MΩ, 500VDC
Dielectric Strength	Between coil and Contacts 2000VAC 1min.
	Between open contacts 1000VAC 1min.
Operate time (at nomi. Volt.)	Max. 15ms
Release time (at nomi. Volt.)	Max. 10ms
Temperature rise (at nomi. Volt.)	Max. 60°C
Shock Resistance	Functional 200 m/s <sup>2</sup>
	Destructive 1000 m/s <sup>2</sup>
Vibration Resistance	DA:1.5mm, 10 to 55Hz
Ambient temperature	-40°C to +55°C
Humidity	35% to 95%, +40°C
Termination	QC & PCB
Unit weight	Approx. 42g
Construction	Dust cover

## SAFETY APPROVAL RATINGS

<b>UL</b>	20A 220VAC 1.5HP 250VAC
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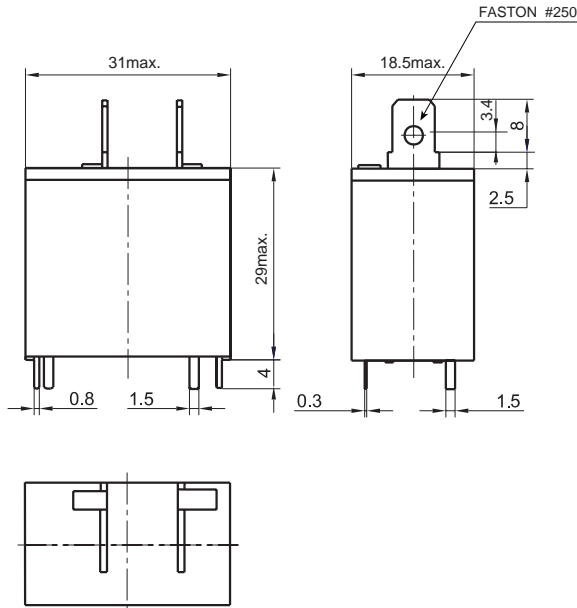


## ORDERING INFORMATION

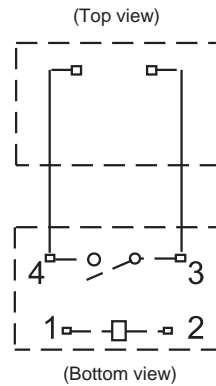
Type	JQX-54FE /	012D	H	3	T
Coil voltage	5, 6, 12, 24, 48VDC				
Contact arrangement	H:1 Form A (SPST-NO)				
Termination	3: QC & PCB				
Contact Material	T: AgSnO <sub>2</sub>	Nil: AgCdO			

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

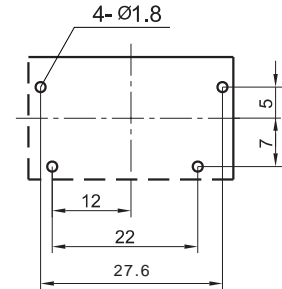
Outline Dimensions



Wiring Diagram



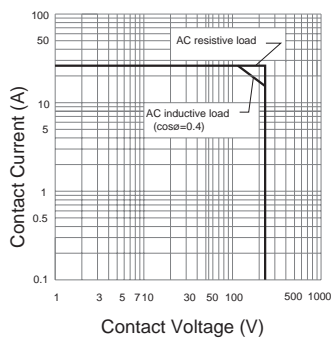
PCB layout



General Purpose Power Relays JQX-54FE

## CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER



LIFE CURVE

