

# JH3001(JQC-3FF)

Subminiature Power Relays

UL&CUR File NO. E193706

TUV File NO.R 50009864

CCEE File No. CH0067501-2001

## FEATURES

- 15A switching capabilities
- SPST-NO and SPDT configurations
- Subminiature, standard PCB layout, low cost
- Sealed and Unsealed types available

## CONTACT DATA

**Arrangements:** SPST-NO(1 form A),SPDT(1 form C)  
**Material:** Silver Alloy  
**Expected Mechanical Life:** 10 million operations (no load)  
**Expected Electrical Life:** 100,000 operations (rated load)  
**Initial Contact Resistance:** 100mΩ @ 1A, 24VDC

## CONTACT RATING

**Rating:** 10A @ 24VDC resistive  
 10A @ 277VAC resistive  
 15A @ 125VAC resistive

**Max . Switched Voltage: AC:** 277V  
 DC: 30V

**Max . Switched Current:** 15A  
**Max . Switched Power:** 2,770VA, 240W

## INITIAL DIELECTRIC STRENGTH

**Between Open Contacts:** 750VAC (1 minute)  
**Between Coil and Contacts:** 1,500VAC (1minute)  
**Surge Voltage Between Coil and Contacts:** 8,000V (1.2/50μs)

## INITIAL INSULATION RESISTANCE

**Between Mutually Insulated Elements:** 100MΩ, Min. @ 500VDC

## COIL DATA

**Voltage:** 3-48VDC  
**Nominal Power:** 0.36W(48VDC:0.51W)  
**Coil Temperature Rise:** 60± max., At rated coil voltage

## COIL DATA @ 20°C

Nominal Voltage (VDC)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Max.allowable Voltage (VDC)	Coil Resistance (ohms)
3	2.25	0.30	3.60	25±10%
5	3.80	0.50	6.00	70±10%
6	4.50	0.60	7.20	100±10%
9	6.75	0.90	10.80	225±10%
12	9.00	1.20	14.40	400±10%
18	13.50	1.80	21.60	900±10%
24	18.00	2.40	28.80	1600±15%
48	36.00	4.80	57.60	4500±15%

## OPERATE DATA

**Must Operate Voltage:** 75% of nominal voltage or less.  
**Must Release Voltage:** 10% of nominal voltage or more.  
**Operate Time:** 10ms max.  
**Release Time:** 5 ms max.

## ENVIRONMENTAL DATA

**Temperature Range:** -40~70± (no water condensation and no water drop.)

**Operating:**  
**Vibration, Resistance:** 10 to 55 Hz., 1.5mm double amplitude  
**Shock, Mechanical:** 1,000m/s<sup>2</sup> (100g approximately)  
**Operational:** 100m/s<sup>2</sup> (10g approximately)  
**Operating Humidity:** To 98% RH. +4Q±

## MECHANICAL DATA

**Termination:** PCB  
**Construction :** sealed & Unsealed  
**Weight:** Approx. 10g

## ORDERING INFORMATION

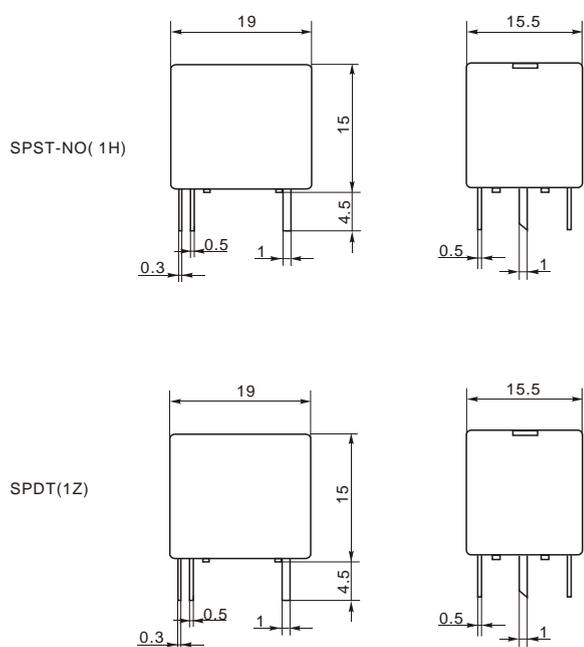
Typical Part Number ▶	<b>JH3001 - 012 - 1H S</b>
<b>Model</b>	
<b>Coil Voltage</b> 3 to 48VDC	
<b>Contact arrangement</b> 1H:SPST-NO 1Z:SPDT	
<b>Classification of type</b> Nil: Unsealed S:Sealed	

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions

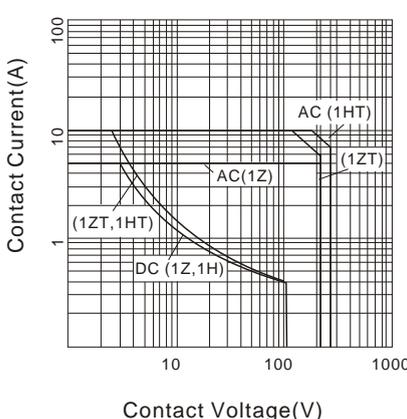
PCB Layout

Wiring Diagram

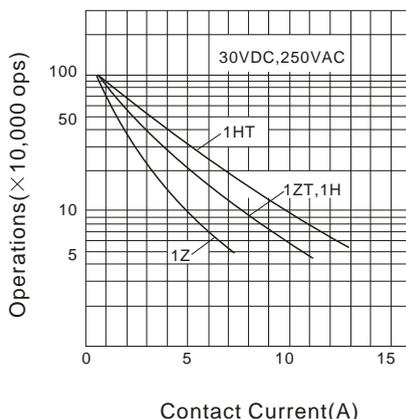


## USEFUL CURVES

Contact Switching Capacity



Life Curve



Temperature Rise

