

# JQX-14FF

## MINIATURE HIGH POWER RELAY



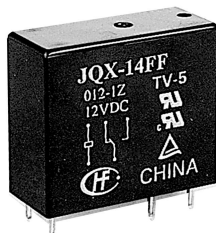
File No.:E134517



File No.:R9659296



File No.:CH0023315-2002A



### Features

- 10A switching capabilities
- SPST-NO and SPDT configurations
- 5KV dielectric between coil to contacts
- Sealed and Unsealed types available

### CONTACT DATA

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| Contact Arrangement             | 1A, 1C                                                   |
| Initial Contact Resistance Max. | 50mΩ(at 1A 24VDC)                                        |
| Contact Material                | AgCdO                                                    |
| Contact Rating (Res. Load)      | 10A 220VAC/30VDC<br>TV-5                                 |
| Max. switching voltage          | 277VAC/30VDC                                             |
| Max. switching current          | 10A                                                      |
| Max. switching power            | 2770VAC/300W                                             |
| UL/CUR rating                   | 10A 277VAC/30VDC<br>TV-5<br>1/4HP 125VAC<br>1/3HP 250VAC |
| TÜV rating                      | 10A 250VAC/30VDC                                         |
| Mechanical life                 | 1 x 10 <sup>7</sup> OPS                                  |
| Electrical life                 | 1 x 10 <sup>6</sup> OPS                                  |

### CHARACTERISTICS

|                               |                           |                       |
|-------------------------------|---------------------------|-----------------------|
| Initial Insulation Resistance |                           | 1000MΩ, 500VDC        |
| Dielectric Strength           | Between coil and Contacts | 5000VAC 1min.         |
|                               | Between open contacts     | 1000VAC 1min.         |
| Operate time (at nomi. Volt.) |                           | 15ms                  |
| Release time (at nomi. Volt.) |                           | 5ms                   |
| Vibration Resistance          |                           | 1.5mm, 10 to 55Hz     |
| Shock Resistance              | Functional                | 100 m/s <sup>2</sup>  |
|                               | Destructive               | 1000 m/s <sup>2</sup> |
| Humidity                      |                           | 98%, +40°C            |
| Ambient temperature           |                           | -40°C to +70°C        |
| Termination                   |                           | PCB                   |
| Unit weight                   |                           | Approx. 18g           |
| Construction                  |                           | Sealed & Unsealed     |

### COIL

|            |       |
|------------|-------|
| Coil power | 0.55W |
|------------|-------|

### COIL DATA

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. allowable Voltage VDC(at 20°C) | Coil Resistance Ω |
|---------------------|---------------------|----------------------|-------------------------------------|-------------------|
| 3                   | 2.25                | 0.3                  | 4.2                                 | 17 ± 10%          |
| 5                   | 3.75                | 0.5                  | 7.0                                 | 47 ± 10%          |
| 6                   | 4.50                | 0.6                  | 8.4                                 | 68 ± 10%          |
| 9                   | 6.75                | 0.9                  | 12.6                                | 160 ± 10%         |
| 12                  | 9.00                | 1.2                  | 16.8                                | 275 ± 10%         |
| 18                  | 13.5                | 1.8                  | 25.2                                | 650 ± 10%         |
| 24                  | 18.0                | 2.4                  | 33.6                                | 1100 ± 10%        |
| 48                  | 36.0                | 4.8                  | 67.2                                | 4170 ± 10%        |
| 60                  | 45.0                | 6.0                  | 84.0                                | 7000 ± 10%        |

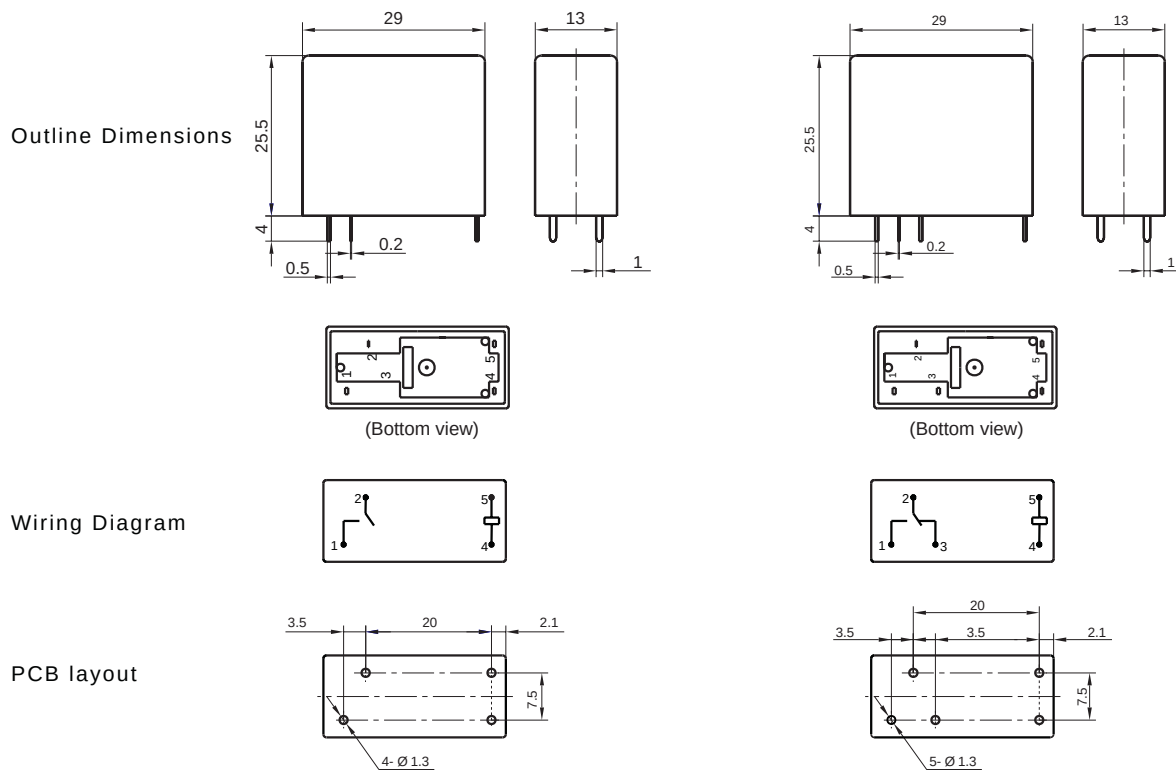
Note:When require pick-up voltage < 75% of nominal voltage, special order allowed.



## ORDERING INFORMATION

|                                                  |            |     |    |   |
|--------------------------------------------------|------------|-----|----|---|
| Type                                             | JQX-14FF / | 012 | 1H | S |
| Coil voltage 3, 5, 6, 9, 12, 18, 24, 48, 60VDC   |            |     |    |   |
| Contact arrangement 1H: 1A(SPST-NO) 1Z: 1C(SPDT) |            |     |    |   |
| Structure Nil: Unsealed S: Sealed                |            |     |    |   |

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



## CHARACTERISTICS CURVE

