



**SUBMINIATURE POWER RELAYS**

Single-Pole , 10Amp , PC Board

**JQC-3FF**



- UL / CUR File No.E170653
- TUV Certificate No. R 2034012
- CQC CQC 03001002865
- SPST-NO & DPDT configuration
- Standard PC layout
- Sealed version available

■ **CONTACT DATA**

|  |   |                          |                       |
|--|---|--------------------------|-----------------------|
| Arrangement                                      | 1 Form A  | 1 Form C                 |                       |
| Initial Contact Resistance<br>Max. (at 1A 24VDC) | 100m  | 100m                     |                       |
| Contact Material                                 | Silver Alloy  | Silver Alloy             |                       |
| Contact Rating (Res. Load)                       | 15A 125VAC  | 10A<br>277VAC/24VDC      |                       |
| Max. switching voltage                           | 250VAC/30VDC  | 250VAC/30VDC             |                       |
| Max. switching current                           | 15A   |                          |                       |
| Max. switching power                             | 2770VA 240W   | 2770VA 240W              |                       |
| UL/CUR rating                                    | 15A 125VAC<br>10A 277VAC<br>12A 120VAC<br>TV-5 120VAC | 10A 120VAC<br>10A 277VAC |                       |
| TUV rating                                       | 12A 125VAC  | 5A 250VAC                |                       |
| Expected<br>Life min.<br>operations              | Mechanical  | 1X10 <sup>7</sup> OPS    | 1X10 <sup>7</sup> OPS |
|  | Electrical  | 1X10 <sup>5</sup> OPS    | 1X10 <sup>5</sup> OPS |
| <b>COIL</b>                                      |   |                          |                       |
| Nominal coil power                               | 360mW   | 360mW                    |                       |

■ **characteristics**

|  |                   |                            |
|--|-------------------|----------------------------|
| Initial Insulation Resistance                    | 100 M 500VDC      |                            |
| Dielectric Strength<br>Between coil and Contacts | 1500Vrms 1 minute |                            |
| Between open contacts                            | 750Vrms 1 minute  |                            |
| Surge Voltage between<br>Contacts and coil       | No                |                            |
| Operate time (at nomi. Volt.)                    | 10ms              |                            |
| Release time (at nomi. Volt.)                    | 5ms               |                            |
| Temperature rise<br>(at nominal voltage)         | 60                |                            |
| Shock<br>Resistance                              | Functional        | 98m/s <sup>2</sup> (10g)   |
|  | Destructive       | 980m/s <sup>2</sup> (100g) |
| Vibration Resistance                             | 1.5mm 10 to 55Hz  |                            |
| Humidity   | 35% to 85% RH     |                            |
| Ambient temperature                              | -40 to 70         |                            |
| Termination                                      | PC                |                            |
| Unit weight                                      | 10g               |                            |
| Construction                                     | Sealed & Unsealed |                            |

**Coil Specifications**

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. allowable Voltage (at 20°C) | Coil Resistance Tolerance: ± 10% |
|---------------------|---------------------|----------------------|----------------------------------|----------------------------------|
| 5                   | 3.8                 | 0.5                  | 6.0                              | 70                               |
| 6                   | 4.5                 | 0.6                  | 7.2                              | 100                              |
| 9                   | 6.8                 | 0.9                  | 10.8                             | 225                              |
| 12                  | 9.0                 | 1.2                  | 14.4                             | 400                              |
| 18                  | 13.5                | 1.8                  | 21.6                             | 900                              |
| 24                  | 18.0                | 2.4                  | 28.8                             | 1600                             |
| 48                  | 36.0                | 4.8                  | 57.6                             | 6400                             |

**ORDERING INFORMATION**

JQC-3FF / OXX - 1Z S T

|  |  |  |  |  |
|--|--|--|--|--|
| Basic Designation                          |  |  |  |  |
| Coil Voltage: 3, 5, 6, 9, 12, 18, 24, 48   |  |  |  |  |
| Contact Arrangement: 1H: SPST-NO; 1Z: SPDT |  |  |  |  |
| Enclosure: S-sealed (IP67) Nil-unsealed    |  |  |  |  |
| Contact material: T-AgSn Nil-AgNi10        |  |  |  |  |

**OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT**

