

JQX-115F-I

MINIATURE HIGH POWER RELAY



File No.:116934



File No.:CQC02001001951



Features

- * High Inrush TV-5 80A /125VAC
- * Low height 15.7 mm
- * 5KV dielectric coil to contacts
- * Creepage distance 10mm
- * Sealed IP67& Flux proof types available
- * VDE0860

CONTACT DATA

| | |
|---------------------------------|--|
| Contact Arrangement | 1A |
| Initial Contact Resistance Max. | 50mΩ(at 1A/ 6VDC) |
| Contact Material | AgSnO ₂ |
| Max. switching voltage | 440VAC/ 125VDC |
| Max. switching current | 16A |
| Max. switching power | 4000VA |
| Contact Rating | 16A 250VAC (3 x 10 ⁴ 360 ops/hour) |
| Inrush Rating @ 125VAC | TV-5, 80A (2.5 x 10 ⁴ ops) |
| Mechanical life | 2 x 10 ⁶ OPS |
| Electrical life | 1 x 10 ⁵ OPS |

*Note: The AgSnO₂ material is with indium

CHARACTERISTICS

| | |
|---|---|
| Initial Insulation Resistance | 1000MΩ 500 VDC |
| Dielectric Strength | Between coil and Contacts 5000VAC 1min. |
| | Between open contacts 1000VAC 1min. |
| Surge voltage between coil and contacts | 10KV (1.2X50μs) |
| Operate time (at nomi. Volt.) | Max. 15ms |
| Release time (at nomi. Volt.) | Max. 8ms |
| Temperature rise (at nomi. Volt.) | Max. 55°C |
| Shock Resistance | Functional 100 m/s ² |
| | Destructive 1000 m/s ² |
| Vibration Resistance | 10 to 150Hz, 20g |
| Humidity | 35% to 85% |
| Ambient temperature | -40°C to +85°C |
| Termination | PCB |
| Unit weight | 13.5g |
| Construction | Sealed IP67 & Flux proof |

COIL

| | |
|------------|------|
| Coil power | 0.4W |
|------------|------|

COIL DATA

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. allowable Voltage VDC(at 20°C) | Coil Resistance (20°C)Ω |
|---------------------|---------------------|----------------------|-------------------------------------|-------------------------|
| 5 | 3.50 | 0.5 | 7.5 | 62 ± 10% |
| 6 | 4.20 | 0.6 | 9.0 | 90 ± 10% |
| 9 | 6.30 | 0.9 | 13.5 | 203 ± 10% |
| 12 | 8.40 | 1.2 | 18 | 360 ± 10% |
| 18 | 12.6 | 1.8 | 27 | 810 ± 10% |
| 24 | 16.8 | 2.4 | 36 | 1440 ± 10% |
| 48 | 33.6 | 4.8 | 72 | 5760 ± 15% |
| 60 | 42.0 | 6.0 | 90 | 7500 ± 15% |
| 110 | 77.0 | 11.0 | 165 | 25200 ± 15% |

SAFETY APPROVAL RATINGS

JQX-115F-I (High Inrush)

| VDE | Specifications | Ratings |
|-----|----------------|-------------------|
| | 1H(S)3A(G)(F) | 16A/ 250VAC @85°C |



HONGFA RELAY
ISO9001*ISO/TS16949 *ISO14001 CERTIFIED

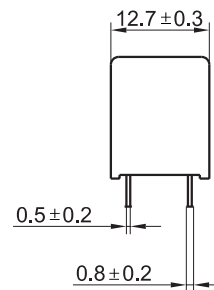
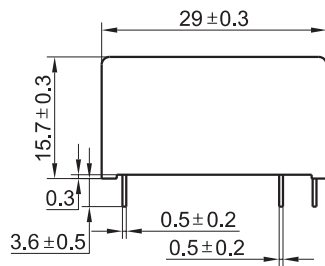
VERSION: EN02-20040601

ORDERING INFORMATION

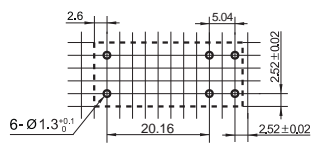
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|---------------------|-------------------------------------|----|---|---|---|
| Type | JQX-115F-I / 012 | 1H | S | 3 | A |
| Coil voltage | 5, 6, 9, 12, 18, 24, 48, 60, 110VDC | | | | |
| Contact arrangement | 1H: 1 Form A | | | | |
| Structure | S: Sealed IP67 Nil: Flux proof | | | | |
| Version | 3: 5.0mm | | | | |
| Contact Material | A: AgSnO ₂ (with indium) | | | | |

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

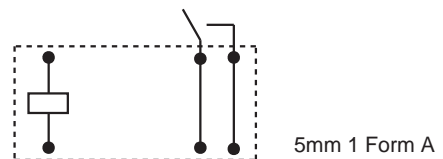
Outline Dimensions



PCB layout
5mm 1 Form A

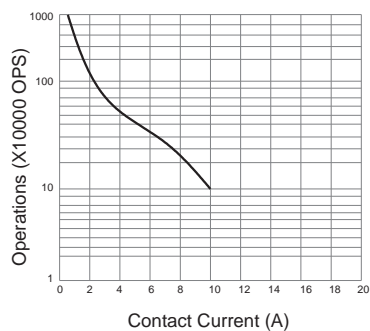


Wiring Diagram



CHARACTERISTICS CURVE

LIFE CURVE



COIL OPERATING RANGE (DC)

