

# 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 <sub>2</sub>
Max. switching voltage	440VAC/ 125VDC
Max. switching current	16A
Max. switching power	4000VA
Contact Rating	16A 250VAC (3 x 10 <sup>4</sup> 360 ops/hour)
Inrush Rating @ 125VAC	TV-5, 80A (2.5 x 10 <sup>4</sup> ops)
Mechanical life	2 x 10 <sup>6</sup> OPS
Electrical life	1 x 10 <sup>5</sup> OPS

\*Note: The AgSnO<sub>2</sub> 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 <sup>2</sup>
	Destructive 1000 m/s <sup>2</sup>
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
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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 (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

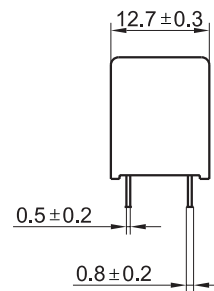
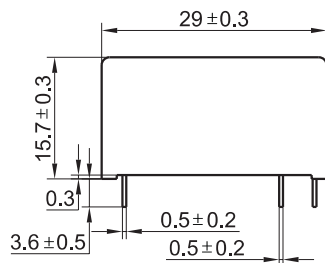


## ORDERING INFORMATION

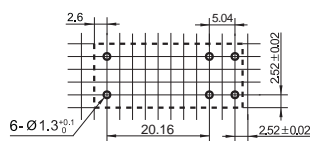
Type	JQX-115F-I / 012	1H	S	3	A
Coil voltage	5, 6, 9, 12, 18, 24, 48, 60, 110VDC				
Contact arrangement	1H: 1 Form A				
Structure	S: Sealed IP67 Nil: Flux proof				
Version	3: 5.0mm				
Contact Material	A: AgSnO <sub>2</sub> (with indium)				

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

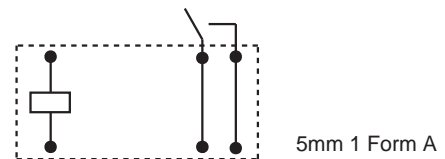
Outline Dimensions



PCB layout  
5mm 1 Form A

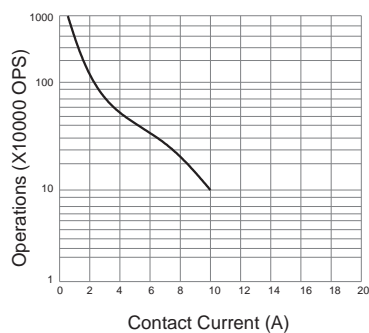


Wiring Diagram



## CHARACTERISTICS CURVE

LIFE CURVE



COIL OPERATING RANGE (DC)

