

# JQX-118F

# MINIATURE HIGH POWER RELAY



### Features

- 8A switching capabilities
- 1&2 pole configurations
- 5KV dielectric coil to contacts
- Low height 12.5 mm
- Sealed & unsealed type available
- Creepage distance 10mm (VDE0435,0631,0700)

### CONTACT DATA

Contact Arrangement	1A,1B,1C (specialties 1A5,1B6)	2A,2B,2C
Contact Material	AgNi,AgSnO <sub>2</sub>	
Initial Contact Resistance Max.	100mΩ	
Contact Rating (Res. Load)	8A 250VAC/30VDC	3A 250VAC/30VDC
Max. switching voltage	440VAC	
Max. switching current	8A	3A
Max. switching power	2,000VA 240W	750VA 90W
Mechanical life	1 x 10 <sup>7</sup> OPS	
Electrical life	1 x 10 <sup>5</sup> OPS	

### COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current (at 20°C) mA	Coil Resistance Ω(at 20°C)
5	3.5	0.5	44.2	113 ± 10%
6	4.20	0.6	36.6	164 ± 10%
9	6.30	0.9	25.0	360 ± 10%
12	8.40	1.2	19.4	620± 10%
18	12.70	1.8	13.9	1,295 ± 10%
24	16.80	2.4	10.2	2,350 ± 15%
48	33.60	4.8	6.0	8,000 ± 15%
60	42.00	6.0	4.8	12,500 ± 15%

### CHARACTERISTICS

Initial Insulation Resistance	1000MΩ, 500VDC	
Dielectric Strength	Between coil and Contacts	5000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contact sets	2500VAC 1min.
Operate time (at nomi. Vot.)	10ms	
Release time (at nomi. Vot.)	5ms	
Shock Resistance	Functional	NC: 49 m/s <sup>2</sup> NO: 98 m/s <sup>2</sup>
	Destructive	980 m/s <sup>2</sup>
Vibration Resistance	NC: (no coil voltage)	DA:0.8mm, 10 to 55Hz
	NO:	DA:1.65mm, 10 to 55Hz
Ambient temperature	-40°C to +85°C	
Humidity	35%to85%	
Termination	PCB	
Unit weight	8g	
Construction	Sealed & unsealed	

### COIL

Nominal coil power	0.22~0.29 W
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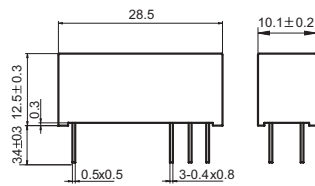


## ORDERING INFORMATION

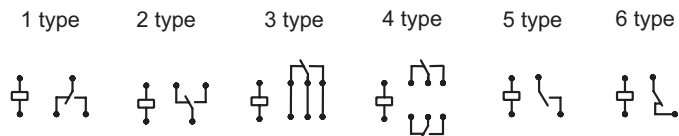
	<b>JQX-118F /</b>	<b>012</b>	<b>1H</b>	<b>S</b>	<b>1</b>	<b>G</b>	<b>XXX</b>
<b>Type</b>							
<b>Coil voltage</b>	5,6,9,12,18,24,48,60VDC						
<b>Contact arrangement</b>	1H:1 Form A   1D:1 Form B   1Z:1 Form C 2H:2 Form A   2D:2 Form B   2Z:2 Form C						
<b>Structure</b>	Nil: Unsealed   S: Sealed						
<b>Type</b>	1: 3.2mm 1 pole 8A,   2: 3.2mm 1 pole 8A,   3: 3.2mm 1 pole 8A,   4:3.2mm 1 pole 3A 5: 5mm only 1 form A,   6: 5mm only 1 form B						
<b>Contact Material</b>	Nil: AgNi10   G: AgNi10 / Au   T: AgSnO <sub>2</sub>						
<b>Customer special request code</b>							

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

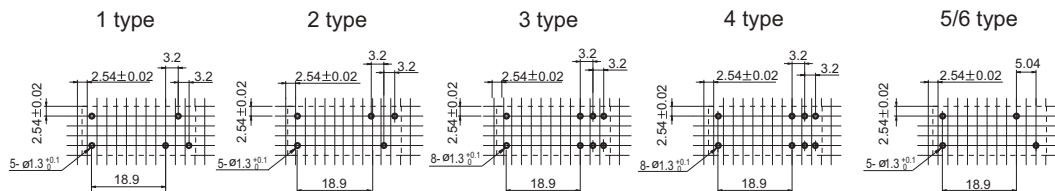
Outline Dimensions



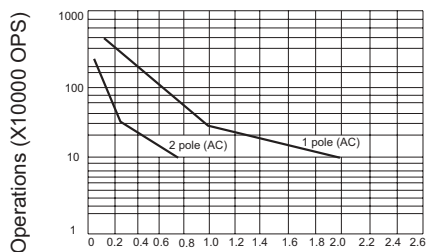
Wiring Diagram



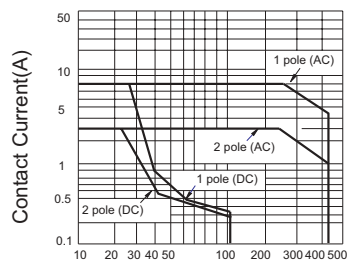
PC Board Layout (T=2.54 0.02mm)



## CHARACTERISTICS CURVE



Breaking Capacity (KVA)



Contact Voltage (V)