

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, CTI 250)

CONTACT DATA

Contact Arrangement	1A,1B,1C (specialties 1A5,1B6)	2A,2B,2C
Contact Material	AgNi,AgSnO ₂	
Initial Contact Resistance Max.	100mΩ	
Contact Rating (Res. Load)	8A 250VAC/30VDC	3A 250VAC/30VDC
Max. switching voltage	440VAC/125VDC	
Max. switching current	8A	3A
Max. switching power	2,000VA 240W	750VA 90W
Mechanical life	1 x 10 ⁷ OPS	
Electrical life	1 x 10 ⁵ 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.)	Max.10ms	
Release time (at nomi. Vot.)	Max. 5ms	
Shock Resistance	Functional	NC: 49 m/s ² NO: 98 m/s ²
	Destructive	980 m/s ²
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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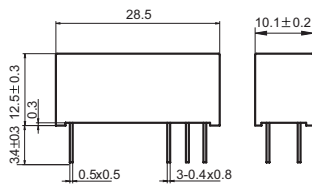


ORDERING INFORMATION

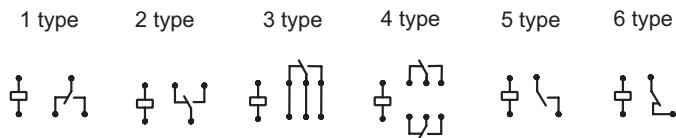
	JQX-118F /	012	1H	S	1	G	XXX
Type							
Coil voltage	5,6,9,12,18,24,48,60VDC						
Contact arrangement	1H:1 Form A 1D:1 Form B 1Z:1 Form C 2H:2 Form A 2D:2 Form B 2Z:2 Form C						
Structure	Nil: Unsealed S: Sealed						
Type	1: 3.2mm 1 pole 8A, 2: 3.2mm 1 pole 8A, 3: 3.2mm 1 pole 8A, 4:3.2mm 2 pole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

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

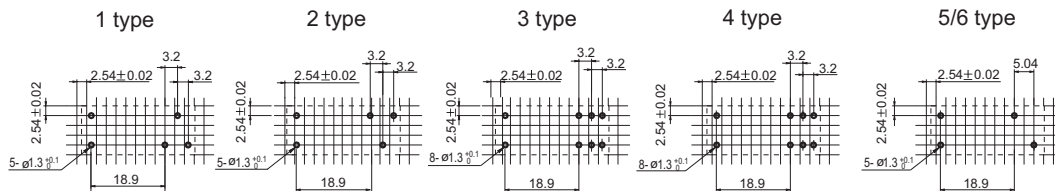
Outline Dimensions



Wiring Diagram



PC Board Layout (T=2.54 0.02mm)



CHARACTERISTICS CURVE

