

JQX-68F

MINIATURE HIGH POWER RELAY



File No.:16264



File No.:E133481



File No.:129371



File No.:CQC02001001945



Features

- Low height 12.3 mm
- 8A switching capability
- 5KV dielectric coil to contacts
- Creepage distance >8mm
- Sealed IP67& Flux proof types available

CONTACT DATA

Contact Arrangement	1A, 1C
Initial Contact Resistance	100mΩ (at 1A/ 6VDC)
Contact Material	See ordering info.
Contact Rating (Res. Load)	8A 250VAC, 8A 30VDC
Max. switching voltage	440VAC 125VDC
Max. switching current	10A
Max. switching power	2000VA, 240W, 0.5HP 250VAC
Mechanical life	1 x 10 ⁷ OPS
Electrical life	1 x 10 ⁵ OPS

COIL

Coil power	0.22W to 0.29W(48 to 60V)
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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 Ω(20°C)
5	3.75	0.50	11.8	113 ± 10%
6	4.50	0.60	14.1	164 ± 10%
12	9.00	1.20	28.2	620 ± 10%
18	13.50	1.80	42.3	1295 ± 10%
24	18.00	2.40	56.4	2350 ± 10%
48	36.00	4.80	112.8	9600 ± 15%
60	45.00	6.00	141.0	12500 ± 15%

CHARACTERISTICS

Initial Insulation Resistance		1000MΩ 500VDC
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.)		55°C
Humidity		35% to 85%
Ambient temperature		-40°C to +85°C
Shock Resistance	Functional	100 m/s ²
	Destructive	1000 m/s ²
Vibration Resistance		10 to 500Hz 20g/5g
Termination		PCB
Unit weight		8.2g
Construction		Sealed IP67 & Flux proof

SAFETY APPROVAL RATINGS

UL	AgCdO	8A 250VAC/30VDC 10A/250VAC B300, R300, Pilot duty		
	AgSnO ₂	8A 250VAC/30VDC		
VDE		Specifications	Loading	Ambient Temp
	AgCdO	JQX-68F...1 (H;Z)(S)(G)(F)	8A/250VAC	COS Ø=1@70°C
	AgNi	JQX-68F...1 (H;Z)(S)(B)(G)(F)	8A/250VAC 5A/250VAC	COS Ø=1@85°C COS Ø=1@85°C
	AgSnO ₂	JQX-68F...1 (H;Z)(S)(T)(G)(F)	8A/250VAC 10(4)A/250VAC	COS Ø=1@85°C COS Ø=1@50°C
FIMKO	8A 10A 250VAC COS Ø=1@55°C			



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001 CERTIFIED

VERSION: EN02-20040601

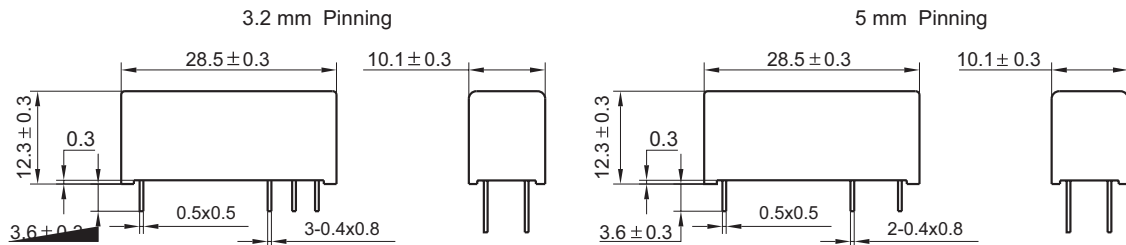
ORDERING INFORMATION

Type	JQX-68F / 012 1H S G F
Coil voltage	5, 6, 12, 18, 24, 48, 60VDC
Contact arrangement	1H:1A(SPST-NO) 1Z:1C(SPDT)
Structure	S: Sealed IP67 Nil: Flux proof
Contact Material	G: AgCdO+ Au plated T: AgSnO ₂ BG: AgNi+ Au plated Nil: AgCdO
Insulation Standard	F: Class F,155°C Nil: Class B,130°C

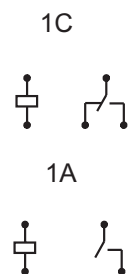
For gold plated type, the min. switching current and min. switching voltage is 10mA@5Vdc

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

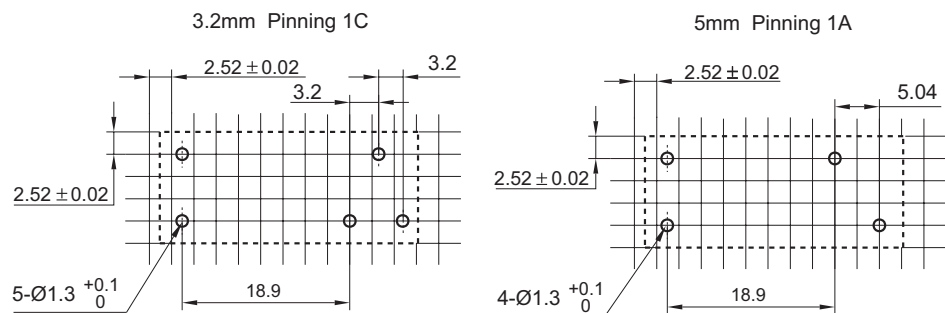
Outline Dimensions



Wiring Diagram



PCB layout



CHARACTERISTICS CURVE

