

JZC-42F

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E170653



File No.:R2034199



File No.:CQC02001001939



Features

- 5A switching capabilities
- 2 Form A slim type
- Sealed IP67 and Flux proof type available

CONTACT DATA

Contact Arrangement	2A
Initial Contact Resistance Max.	100mΩ (at 1A 6VDC)
Contact Material	AgCdO, AgSnO
Contact Rating (Res. Load)	5A 250VAC 5A 30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	5A
Max. switching power	1250VA /150W
Mechanical life	1 x 10 ⁶ OPS
Electrical life	1 x 10 ⁵ OPS

COIL

Coil power	0.53W
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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
5	3.75	0.25	6.5	47 ± 10%
6	4.50	0.30	7.8	68 ± 10%
9	6.75	0.45	11.7	155 ± 10%
12	9.00	0.60	15.6	270 ± 10%
18	13.5	0.90	23.4	620 ± 10%
24	18.0	1.20	31.2	1080 ± 10%
48	36.0	2.40	62.4	4400 ± 10%

CHARACTERISTICS

Initial Insulation Resistance		1000MΩ (500VDC)
Dielectric Strength	Between coil and Contacts	4000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contact sets	1000VAC 1min.
Operate time (at nomi. Volt.)		Max. 15ms
Release time (at nomi. Volt.)		Max. 10ms
Temperature rise (at nomi. Volt.)		Max. 55°C
Humidity		5% to 85%RH
Ambient temperature		-40°C to +70°C
Shock Resistance	Functional	100 m/s ²
	Destructive	1000 m/s ²
Vibration Resistance		10 to 55Hz
Termination		PCB
Unit weight		Approx. 14.5g
Construction		Sealed IP67 & Flux proof

SAFETY APPROVAL RATINGS

UL	5A 250VAC 5A 30VDC TV-3 125VAC
TÜV	5A 250VAC cos phi=1 5A 30VDC L/R=0



ORDERING INFORMATION

JZC-42F /	012	2H	S	T
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Type

Coil voltage	5, 6, 9, 12, 18, 24, 48VDC
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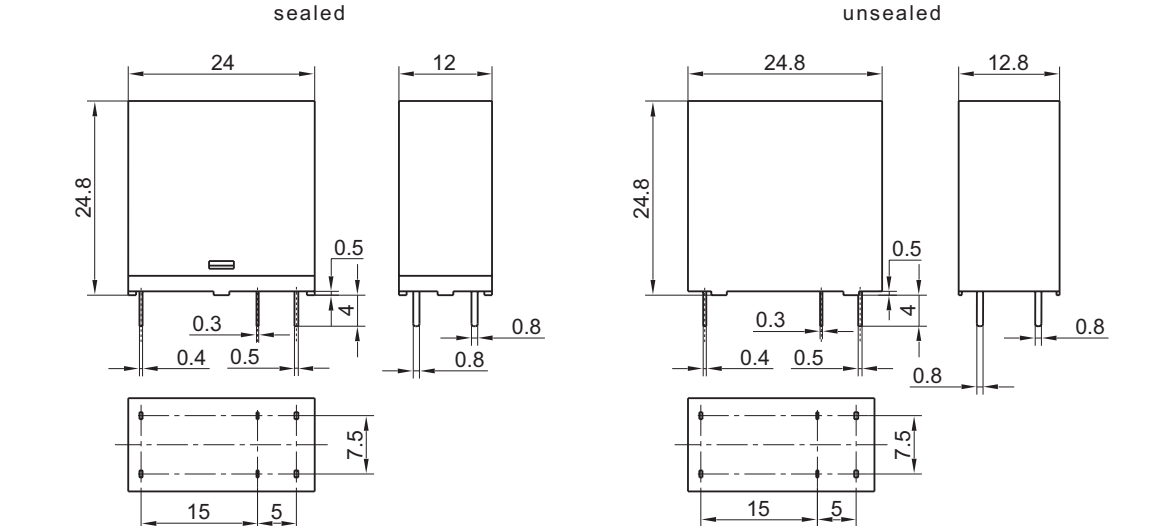
Contact arrangement	2H: 2 Form A
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Structure **S:** Sealed IP67 **Nil:** Flux proof

Contact Material T: AgSnO₂ Nil: AgCdO

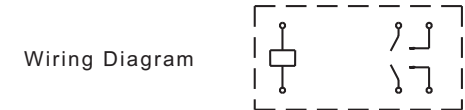
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions



Wiring Diagram

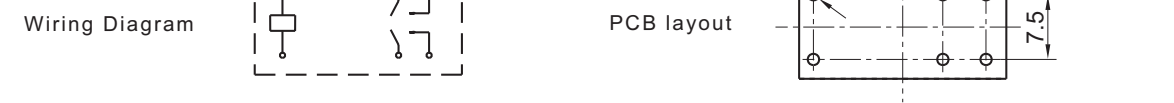
The diagram shows a light fixture (represented by a circle with a cross) connected to a switch (represented by a rectangle with a diagonal line) and a power source (represented by a circle with a cross). The connections are made using lines representing wires.



Wiring Diagram

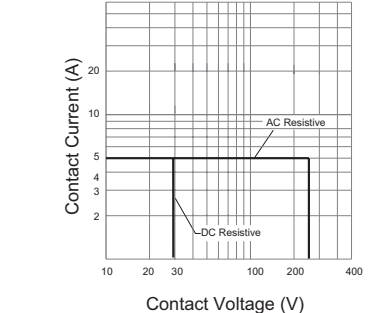


PCB layout

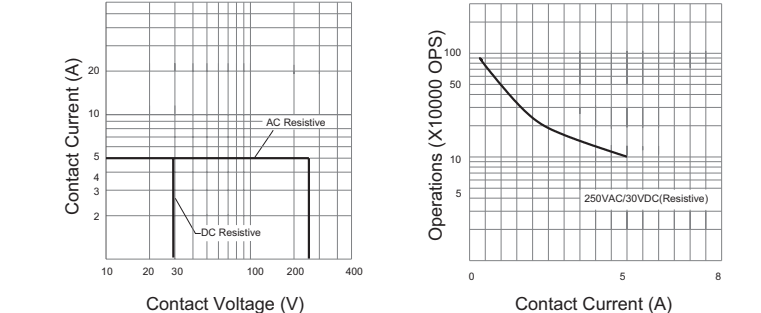


CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER	LIFE CURVE	COIL TEMPERATURE RISE
60	60	60



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