

JZC-49F/49FA

MINIATURE POWER RELAY



File No.:E133481



File No.:R50035304



File No.:CQC02001001937



Features

- * 5A switching capabilities
- * 1 pole configurations
- * 2KV dielectric coil to contacts
- * Slim size (width 5mm, height 12.5mm)
- * High sensitivity 0.12W

CONTACT DATA

Contact Arrangement	1A
Initial Contact Resistance Max.	50mΩ (at 1A 6VDC)
Contact Material	See ordering info.
Contact Rating(Res. load)	5A 250VAC / 5A 30VDC
Max. switching voltage	250VAC 110VDC
Max. switching current	5A
Max. Switching power	1250VA / 150W
Mechanical life	2x10 ⁷ ops (72,000 ops/ hour)
Electrical life	1x10 ⁵ ops (360 ops/ hour)

COIL

Coil power	0.12 to 0.18W
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COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current (at 20°C) mA	Coil Resistance (at 20°C)Ω
5	3.50	0.25	24.0	208 ± 10%
6	4.20	0.30	20.0	300 ± 10%
9	6.30	0.45	13.3	675 ± 10%
12	8.40	0.60	10.0	1200 ± 10%
18	12.6	0.90	6.70	2700 ± 15%
24	16.8	1.20	7.50	3200 ± 15%

Notes:All above data are tested when the relays terminals are downward position. Other positions of the terminals, the pick-up and drop-out voltages will have ±5% tolerance. For example When the relays terminals are transverse position, the max. pick-up voltage change is 75% of nominal voltage.

CHARACTERISTICS

Initial Insulation Resistance	1000MΩ 500VDC	
Dielectric Strength	Between coil and contacts	2,000VAC 1 min.
	Between open contacts	1,000VAC 1 min.
Surge Voltage between Contacts and coil	4,000V (1.2x50us)	
Operate time (at nomi.Volt.)	Max. 10 ms	
Release time (at nomi.Volt.)	Max. 5 ms	
Temperature rise (at nomi.Volt.)	45°C	
Shock Resistance	Functional	98 m/s ²
	Destructive	980 m/s ²
Vibration resistance	10 to 55Hz Double Amplitude 1.5mm	
Humidity	5% to 85%	
Ambient temperature	-40°C to +70°C	
Termination	PCB	
Unit weight	3g	
Construction	Sealed IP67	

SAFETY APPROVAL RATINGS

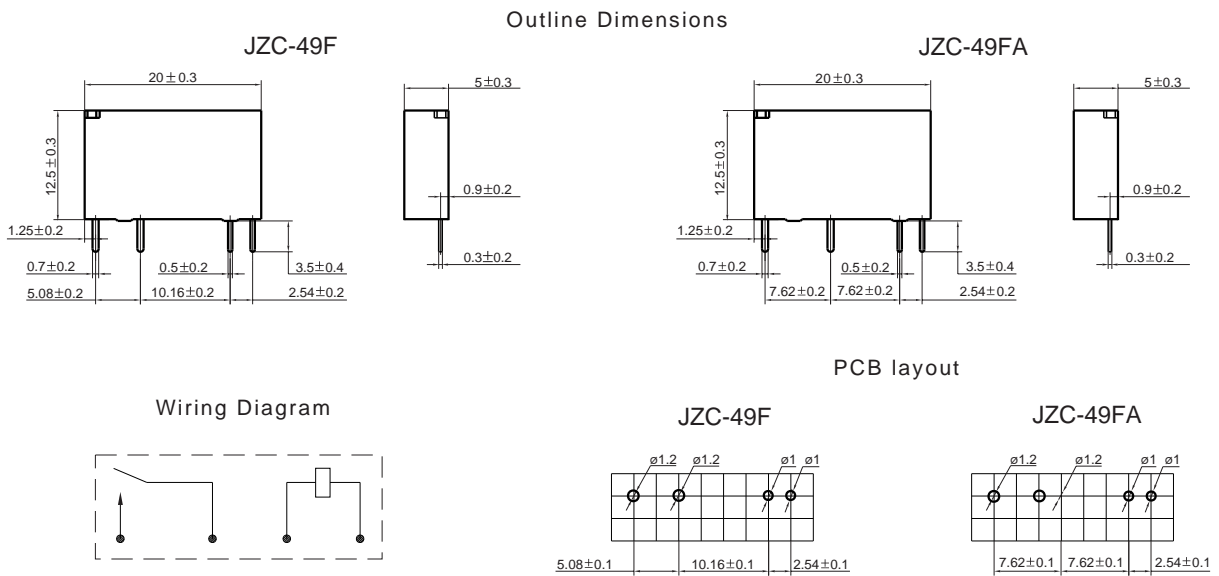
UL	5A 30VDC (L/R =0 ms)
	5A 250VAC (cosphi=1)
	3A 30VDC (L/R =0 ms)
	3A 250VAC (cosphi=1)
Tüv	5A 250VAC cos phi=1
	5A 30VDC L/R=0ms
	3A 250 VAC cosphi=1
	3A 30VDC L/R =0 ms



ORDERING INFORMATION

Type	JZC-49F / A 012 1H 1 G T F		
Contact Terminal spacing		A: 7.62mm	Nil: 5.08mm
Coil voltage		5, 6, 9, 12, 18, 24 VDC	
Contact arrangement		1H: 1A(SPST-NO)	
Contact Version		1: Single contact	2: Bifurcated contact
Contact plating		G: Au plated	Nil: without Au plated
Contact Material		T: AgSnO ₂	Nil: AgNi
Insulation		B: Class B 130°C	F: Class F 155°C Nil: Class A 105°C

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



CHARACTERISTICS CURVE

