



22×16.2×20.8

# JZC-22F<sub>4</sub>

c  US E160644

 R50631259

## Features

- Small size, light weight , low coil power consumption.
- Switching capacity can reach 32A/277VAC.
- High dielectric strength.
- Contact gap≥2.1mm.
- PC board mounting is available.
- High-performance power relay, suitable for photovoltaic systems (solar-inverters), automotive applications, motor control, compressor control, and home appliances.

## Ordering Information

**JZC-22F<sub>4</sub>**   **F**   **A**   **32**   **T**   **12VDC**   **F**  
 1                      2                      3                      4                      5                      6                      7

- |   |  |
|---|--|
| 1 Part number: JZC-22F <sub>4</sub>       | 4 Contact rating: 32A/277VAC               |
| 2 Enclosure: S: Wash tight; F: Flux proof | 5 Coil power: T:2.8W; H:1.67W; L:1.2W      |
| 3 Contact arrangement: A:1A               | 6 Coil rated voltage(V): DC:5,9,12,24,48   |
|   | 7 Resist heat class: NIL:Standard; F:155°C |

## Contact Data

Contact Arrangement		1A(SPSTNO)	
Contact Material		AgSnO <sub>2</sub>	
Contact Rating		32A/277VAC	
Holding voltage <sup>1)</sup>		40%-50%UN(1.2W/1.67W) 32%-36%UN(2.8W)	
Max. Switching Power		8864VA	
Max. Switching Voltage		400VAC	Max. Switching Current:32A
Contact Resistance		≤100mΩ	Item 4.12 of IEC 61810-7
Operation Life	Electrical	1×10 <sup>4</sup> 1×10 <sup>4</sup> (1.67W 105°C)	Item 4.30 of IEC 61810-7
	Mechanical	5×10 <sup>5</sup>	Item 4.31 of IEC 61810-7

**CAUTION:** 1)The coil holding voltage is the voltage value after the rated voltage is applied to the coil for 200ms.  
 2)To apply higher holding voltage than specified during long time is forbidden to prevent overheating.

## Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC(max) (80%of rated voltage )	Drop-out voltage VDC(min) (5% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
009-2800	9	11.7	28.9	7.2	0.45	2.8	≤15	≤10
012-2800	12	15.6	51.4	9.6	0.6			
024-2800	24	31.2	205.7	19.2	1.2			
005-1670	5	6.5	14.97	4	0.25	1.67	≤15	≤10
009-1670	9	11.7	48.5	7.2	0.45			
012-1670	12	15.6	86.2	9.6	0.6			
024-1670	24	31.2	344.9	19.2	1.2			
048-1670	48	62.4	1379.6	38.4	2.4			
005-1200	5	6.5	20.8	4	0.25	1.2	≤15	≤10
009-1200	9	11.7	67.5	7.2	0.45			
012-1200	12	15.6	120	9.6	0.6			
024-1200	24	31.2	480	19.2	1.2			
048-1200	48	62.4	1920	38.4	2.4			

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Apply 100%-120% of the rated coil voltage for 200ms in order for the relay to operate correctly.

## Characteristics

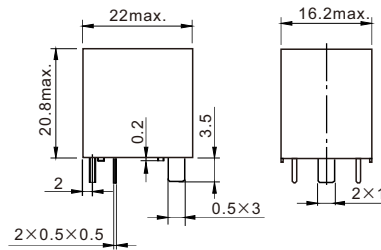
Insulation Resistance	1000M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50/60Hz 2000V 1min 50/60Hz 4000V 1min	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	Functional: 98m/s <sup>2</sup> Destructive: 980m/s <sup>2</sup>	Item 4.26 of IEC 61810-7 Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	16g	Item 4.7 of IEC61810-7

## Safety Approvals

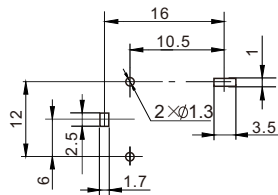
Safety approval	UL&CUR	TUV
Load	32A/277VAC,250VAC	32A/277VAC,250VAC

## Dimensions

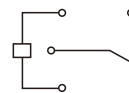
mm



Dimensions



Mounting(Bottom view)



Wiring diagram (Bottom view)

**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm ;  
outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.