

# N4099(JZC-7F)



22×16.5×16.5



Features	
<ul style="list-style-type: none"> <li>• Small size, light weight, Low price.</li> <li>• Sensitive operation, good synchronism.</li> <li>• Low coil power consumption.</li> <li>• PC board mounting.</li> <li>• Suitable for electrical application, telecommunication, automatic control, wireless radio remote control and sound control toy application.</li> </ul>	

Ordering Information	
<b>N4099 12D E</b>	
1	2 3
1 Part number: N4099(JZC-7F)	
2 Coil rated voltage(V): DC:3,6,9,12,24,48	
3 Enclosure: E: Sealed type; NIL:Dust cover	

Contact Data	
Contact Arrangement	2A(DPSTNO) 2B(DPSTNC) 2C(DPDT(B-M))
Contact Material	AgCdO (Au clad) AgSnO <sub>2</sub> (Au clad) AgNi (Au clad)
Contact Rating (resistive)	1A,2A,3A/277VAC,30VDC; 0.6W:3A,5A,10A/277VAC,30VDC 6A/125VAC
Max. Switching Power	0.5W:90W 850VA; 0.6W:300W 2770VA
Max. Switching Voltage	50VDC 380VAC Max. Switching Current:10A
Contact Resistance or Voltage drop	<50mΩ Item 4.12 of IEC 61810-7
Operational life	Electrical 10 <sup>5</sup> Item 4.30 of IEC 61810-7
	Mechanical 10 <sup>7</sup> Item 4.31 of IEC 61810-7

**CAUTION:** 1.For the intermediate current, it only applies to the room temperature.  
2.For gold plated version, the min. switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
003-500	3	3.9	20	2.25	0.3	0.45	<10	<5
006-500	6	7.8	80	4.50	0.6			
009-500	9	11.7	180	6.75	0.9			
012-500	12	15.6	320	9.00	1.2			
024-500	24	31.2	1280	18.0	2.4			
048-500	48	62.4	5120	36.0	4.8			
003-600	3	3.9	15	2.25	0.3	0.5	<10	<5
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2			
024-600	24	31.2	960	18.0	2.4			
048-600	48	62.4	3840	36.0	4.8			

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	Between contacts	50Hz 750V
	Between contact and coil	50Hz 1000V
Item 6 of IEC 60255-5		Item 6 of IEC 60255-5
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Shock resistance	100m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235°C ± 2°C 3s ± 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~70°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	12g	

### Safety approvals

Safety approval	UL&CUR	CQC
Load	5A/277VAC 30VDC 6A/125VAC,30VDC	5A/277VAC

### Dimensions

mm /inch

Dimensions

Mounting (Bottom view)

2A 2B 2C

Wiring diagram(Bottom view)

NOTES 1).Dimensions are in millimeters.  
2).Inch equivalents are given for general information only.

### Reference Data

