

# DB ELECTRO<sup>CO., LTD.</sup>

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO., LTD.



# N4099(JZC-7F)



22×16.5×16.5



US E158859  
Patent No.:99204096.5

### Features

- Small size, light weight, Low price.
- Sensitive operation, good synchronism.
- Low coil power consumption.
- PC board mounting.
- Suitable for electrical application, telecommunication, automatic control, wireless radio remote control and sound control toy application.

### Ordering Information

**N4099 12D E**  
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)
Contact Rating (resistive)	0.5W:1A,2A,3A/277VAC,30VDC; 0.6W:3A,5A,10A/277VAC,30VDC
Max. Switching Power	0.5W:90W 360VA; 0.6W:250W 1600VA
Max. Switching Voltage	50VDC 380VAC Max. Switching Current:10A
Contact Resistance or Voltage drop	<50mΩ Item 3.12 of IEC255-7
Operational life	Electrical 10 <sup>5</sup> Item 3.30 of IEC255-7
	Mechanical 10 <sup>7</sup> Item 3.31 of IEC255-7

### Coil Parameter

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	18	2.25	0.3	0.5	<10	<5
006-500	6	7.8	72	4.50	0.6			
009-500	9	11.7	162	6.75	0.9			
012-500	12	15.6	288	9.00	1.2			
024-500	24	31.2	1152	18.0	2.4			
048-500	48	62.4	4608	36.0	4.8	0.6	<10	<5
003-600	3	3.9	15	2.25	0.3			
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 <sup>1)</sup>	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength <sup>1)</sup>	Between contacts	50Hz 750V
	Between contact and coil	50Hz 1000V
Shock resistance	100m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~70°C	
Relative Humidity	85% (at 40°C)	IEC68-2-3Test Ca
Mass	12g	

### Qualification inspection:

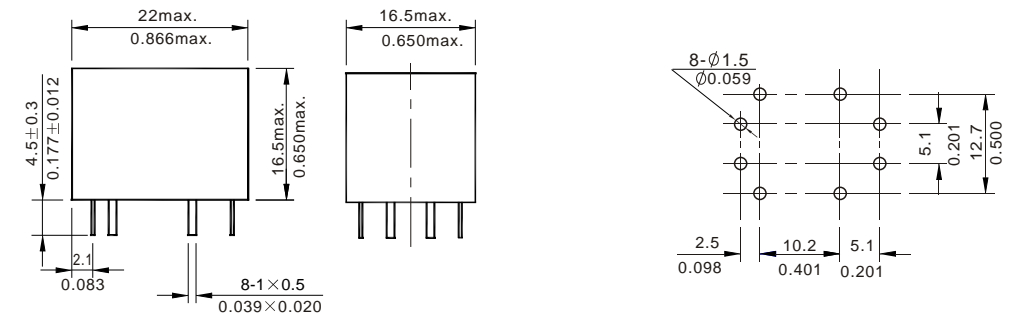
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

### Safety approvals

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

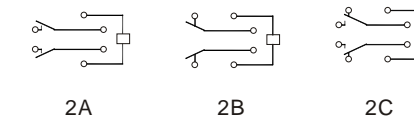
### Dimensions

mm /inch



Dimensions

Mounting (Bottom view)



Wiring diagram(Bottom view)

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

### Reference Data

