



28.5×10.1×12.3

# N68F

UL E169380 CQC 06001015741

### Features

- Slim type and small occupying area can offer high density P.C.B. technique.
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Dielectric strength 5000V.
- Creepage distance >8mm.

### Ordering Information

**N68F C S 8 DC12V F**  
 1 2 3 4 5 6

- 1 Part number: N68F
- 2 Contact arrangement: A:1A;C:1C
- 3 Enclosure: S:Sealed type; Z:Dust cover
- 4 Contact current: 8A
- 5 Coil rated voltage(V): DC:5,6,12,18,24,48,60
- 6 Resist heatclass: B:130°C ; F:155°C

### Contact Data

Contact Arrangement	1A(SPSTNO) 1C (SPDT(B-M))	
Contact Material	AgCdO AgSnO <sub>2</sub> AgNi (gold clad)	
Contact Rating (Resistive)	8A/250VAC,30VDC	
Max. Switching Power	300W	2500VA
Max. Switching Voltage	125VDC 380VAC	Max. Switching Current:10A
Contact Resistance or Voltage drop	≤100mΩ	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

### 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						
005-220	5	6.5	113	3.75	0.5	0.22	<7	<3
006-220	6	7.8	164	4.5	0.6			
012-220	12	15.6	620	9.0	1.2			
018-220	18	23.4	1295	13.5	1.8			
024-220	24	31.2	2350	18.0	2.4			
048-250	48	62.4	9600	36.0	4.8	0.25	<7	<3
003-250	60	78	12500	45.0	6.0			

- 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.
  - 3.Unless otherwise stated, the rated coil voltage specified in coil parameter table shall be used for all tests and its application to the relay.

### Operation condition

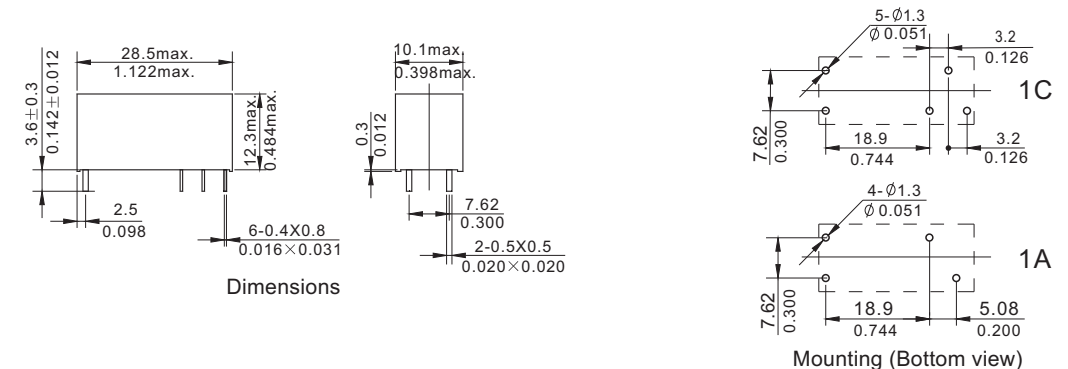
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength	50Hz 1000V	Item 6 of IEC 61810-5 Item 6 of IEC 61810-5
Between contacts	50Hz 5000V	
Between contact and coil		
Shock resistance	Functional 100m/s <sup>2</sup> 11ms Survival: 1000m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~500Hz double amplitude 1.5mm 200m/s <sup>2</sup>	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	-40~85°C	
Relative Humidity	85% (at 40°C)	IEC68-2-3 Test Ca
Mass	8.2g	

### Safety approvals

Safety approval	UL & CUR	CQC
Load	8A/250VAC,30VDC	8A/250VAC

### Dimensions

mm /inch



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

### Reference Data

