




28.5×10.1×12.3

# N68F

 E158859  
Patent NO.:03209705.0

**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 C DC12V F**  
 1      2      3      4      5      6      7

1 Part number: N68F  
 2 Contact arrangement: A:1A;C:1C  
 3 Enclosure: S:Sealed type; Z:Dust cover  
 4 Contact current: 8A  
 5 Contact material: NIL:AgNi (Gold clad); W:AgNi  
 CD:AgCdO (Gold clad); C:AgCdO  
 6 Coil rated voltage(V): DC:5,6,12,18,24,48,60  
 7 Resist heat class: B:130℃ ; F:155℃

**Contact Data**

Contact Arrangement	1A (SPSTNO) 、 1C (SPDT(B-M))		
Contact Material	Ag · CdO Ag · SnO <sub>2</sub>		
Contact Rating	Resistive	8A/250VAC	30VDC
Max. Switching Power	Resistive	300W	2500VA
Max. Switching Voltage	125VDC	380VAC	Max. Switching Current:10A
Contact Resistance or Voltage drop	≤100mΩ	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						
005-220	5	11.8	113	3.75	0.5	0.22	<7	<3
006-220	6	14.1	164	4.5	0.6			
012-220	12	28.2	620	9.0	1.2			
018-220	18	42.3	1295	13.5	1.8			
024-220	24	56.4	2350	18.0	2.4			
048-250	48	112.8	9600	36.0	4.8	0.25	<7	<3
003-250	60	141.0	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	1000M $\Omega$ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 5000V	Item 6 of IEC255-5 Item 6 of IEC255-5
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 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~70 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3Test Ca
Mass	8.2g	

## Qualification inspection:

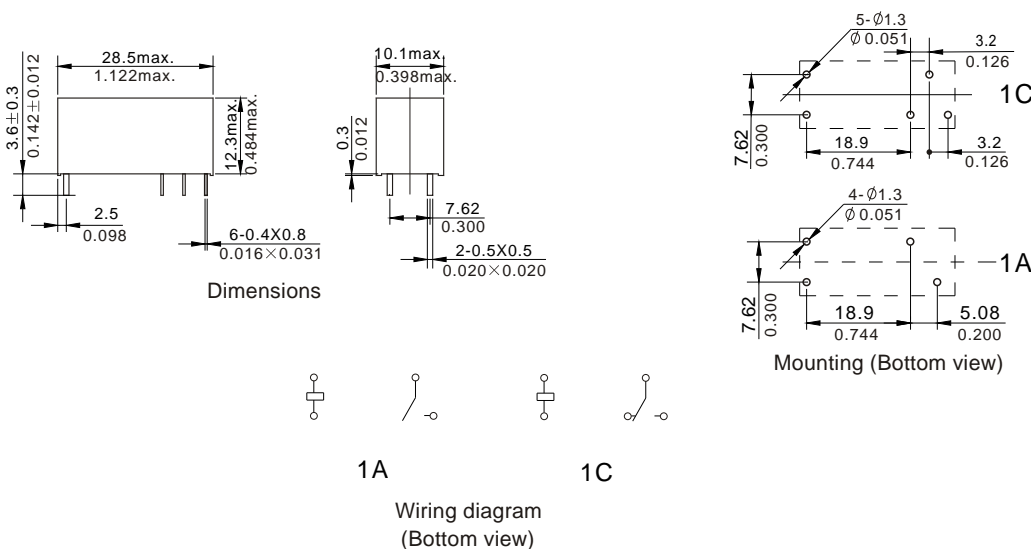
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

## Safety approvals

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

## Dimensions

mm /inch



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

## Reference Data

