22.5×16.5×16.5

N C F 2

Patent No. 01210551.1 01310478.0

Features

- Small size, light weight.
- Low coil power consumption.
- Operation noise: less than 5odb.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment.

Ordering Information

NCF2 Q 2×1C DC12V
1 2 3 4

1 Part number：NCF2
2 Noise：NIL: Standard；Q: Quiet
3 Contact arrangement：2×1C
4 Coil rated Voltage(V)：DC:12

Contact Data

Contact Arrangement		2×1C （2×SPDT(B-M)）（H-Bridge）	
Contact Material		$Ag·SnO_2$	
Contact Rating (resistive)		NO：20A/14VDC； NC：10A/14VDC	
Max. Switching Power		300W	
Max. Switching Voltage		16VDC	Max. Switching Current:20A
Contact Resistance or Voltage drop		≤50mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10^5	Item 3.30 of IEC255-7
	Mechanical	10^7	Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC Rated	Operating Voltage Range VDC	Coil resistance Ω±10%	Pickup voltage VDC(max) (60%of rated voltage)	release voltage VDC(min) (8% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
012-640	12	10-16	225	7.2	1.0	0.64	⩽10	⩽10

CAUTION: 1.The use of any coil voltage overstep operating voltage range of coil , it 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.

Sound Pre. Characteristics (Q type)：

Operation noise：<50db

Coil voltage :12VDC

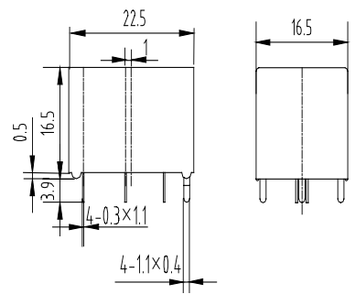
Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 1000V	Item 6 of IEC255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC255-5
Shock resistance	Functional：100m/s² 11ms; Survival：1000 m/s² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~100Hz 45 m/s²	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	17g(Q type); 15g	

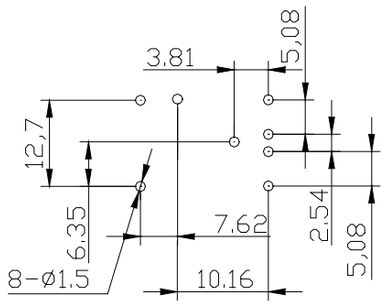
Qualification inspection:

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

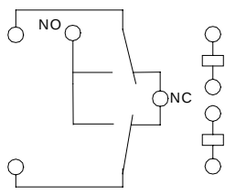
Dimensions (Unit: mm)



Dimensions



Mounting (Bottom views)



Wiring diagram
(Bottom views)

mm	inch
0.3	0.012
0.4	0.016
0.5	0.020
1.0	0.039
1.1	0.043
1.5	0.059
2.54	0.100
3.9	0.153
3.81	0.150
5.08	0.200
6.35	0.250
7.62	0.300
10.16	0.400
12.7	0.500
16.5	0.650
22.5	0.886

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.