N C T

I

17.4×14×13.5（1C: 17.4×7.2×13.5）

Features

- Ultra small size, light weight.
- Low coil power consumption.
- Forward/reverse motor control is possible with a single relay.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment.

Ordering Information

NCT 2 DC12V
1 2 3

1 Part number：NCT
2Contact arrangement：1:1C；2:2×1C；5:2C
3 Coil rated Voltage(V)：DC:12

Contact Data

Contact Arrangement		1C（SPDT(B-M)） 2C（DPDT(B-M)）2×1C（2×SPDT(B-M)（H-Bridge）	
Contact Material		Silver alloy 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		⩽100mΩ (200mV at 10A)	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
012-800	12	10-16	180	7.2	1.0	0.8	⩽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.

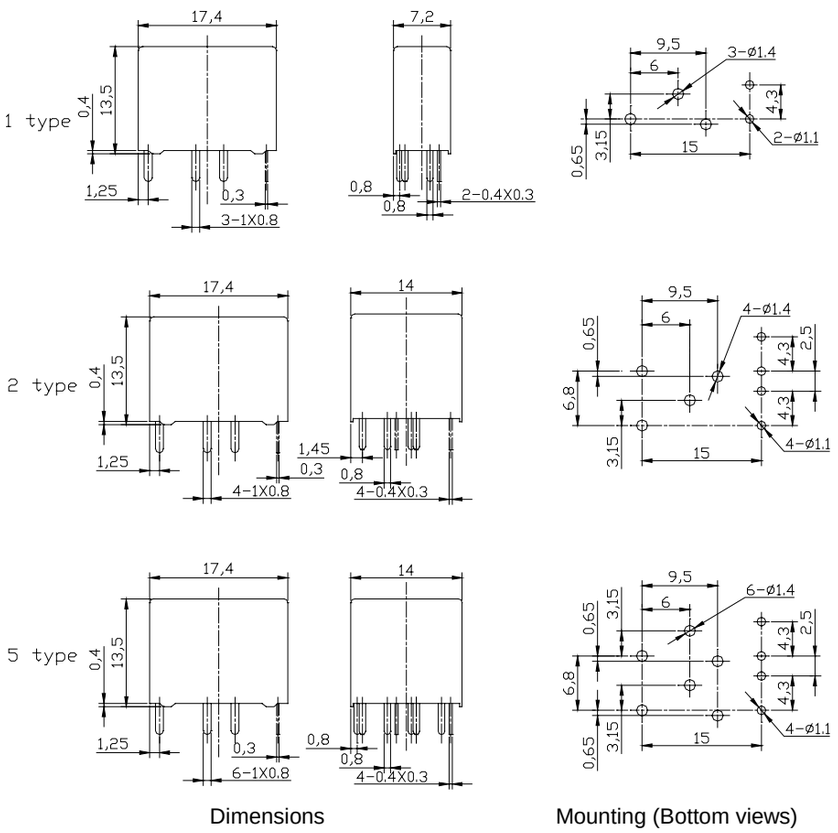
Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5 (Detection current:10m A)
Between contact and coil	50Hz 500V	Item 6 of IEC255-5 (Detection current:10m A)
Shock resistance	Functional：100m/s² 11ms; Survival：1000 m/s² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~100Hz 44 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	8g,4g (1C)	

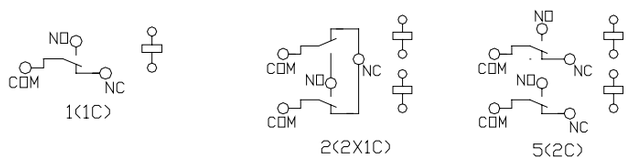
Qualification inspection:

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
0.65	0.026
0.8	0.031
1.0	0.039
1.1	0.043
1.25	0.049
1.4	0.055
1.45	0.057
2.5	0.098
3.15	0.124
3.5	0.138
4.3	0.169
6.0	0.236
6.8	0.268
7.2	0.283
9.5	0.374
13.5	0.551
14	0.551
15	0.591
17.4	0.685

NOTES 1).Dimensions are in millimeter.

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