



17.4×14×13.5 (1C: 17.4×7.2×13.5)

NCT

Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 500V 50Hz 500V	Item 6 of IEC 60255-5 (Detection current:10mA) Item 6 of IEC 60255-5 (Detection current:10mA)
Shock resistance	Functional: 100m/s ² 11ms; Survival: 1000 m/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~100Hz 44 m/s ²	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)	IEC68-2-3Test Ca
Mass	8g,4g (1C)	

Dimensions

mm /inch

Dimensions

Mounting (Bottom views)

Wiring diagram (Bottom views)

1 type

2 type

5 type

1(1C)

2(2×1C)

5(2C)

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

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
2 Contact 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 AgSnO 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 4.12 of IEC 61810-7	
Operation Life	Electrical	10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	10 ⁷	Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage VDC	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
	Rated							
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.