

# DB LECTRO<sup>2</sup> COMPOSANTS ÉLECTRONIQUES

ELECTRONIC COMPONENTS



# N C T

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**

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2 1 3 1 Part number: NCT 2Contact arrangement: 1:1C; 2:2×1C; 5:2C

**DC12V** 

3 Coil rated Voltage(V): DC:12

#### **Contact Data**

1C (SPDT(B-M)) 2C (DPDT(B-M))  $2 \times 1C$  ( $2 \times SPDT(B-M)$  (H-Bridge) Contact Arrangement Contact Material Silver alloy Ag·SnO<sub>2</sub> NO: 20A/14VDC; NC: 10A/14VDC Contact Rating (resistive) Max. Switching Power 300W Max. Switching Voltage 16VDC Max. Switching Current:20A Contact Resistance or Voltage drop  ${\leq}100m\Omega$  (200mV at 10A) Item 3.12 of IEC255-7 Operation Electrical 10<sup>5</sup> Item 3.30 of IEC255-7 life Mechanical 10<sup>7</sup> Item 3.31 of IEC255-7

#### **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.



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# **Operation condition**

Insulation Resistance **Dielectric Strength** Between contacts Between contact and coil

Shock resistance Vibration resistance Terminals strength Solderability Ambient Temperature **Relative Humidity** Mass

100MΩ min (at 500VDC) 50Hz 500V 50Hz 500V

Functional: 100m/s<sup>2</sup> 11ms: Survival: 1000 m/s<sup>2</sup> 6ms 10~100Hz 44 m/s<sup>2</sup> 10N 235℃ ±2℃  $3\pm0.5s$ **-40~85**℃ 85% (at 40℃) 8g,4g (1C)

Item 7 of IEC255-5

Item 6 of IEC255-5 (Detection current:10m A) Item 6 of IEC255-5 (Detection current:10m A)

IEC68-2-27 Test Ea

IEC68-2-6 Test Fc IEC68-2-21 Test Ua1 IEC68-2-20 Test Ta method 1

IEC68-2-3Test Ca

#### **Qualification inspection:**

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

