

DB ELECTRO^{CO., LTD.}

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO., LTD.





NCT



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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

3 Coil rated Voltage(V) DC:12

2 Contact arrangement 1:1C 2:2C 1C 5:2C

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
Contact Resistance or Voltage drop	≤100mΩ (200mV at 10A)
Operation life	Electrical 10 ⁵ Mechanical 10 ⁷
	Max. Switching Current:20A Item 3.12 of IEC255-7 Item 3.30 of IEC255-7 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.

Operation condition

Insulation Resistance	100M Ω 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 \square 100m/s ² 11ms; Survival \square 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 \square \square 2 \square 3 \square 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85 \square	
Relative Humidity	85% (at 40 \square)	IEC68-2-3Test Ca
Mass	8g,4g (1C)	

Qualification inspection:

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

Dimensions (Unit: mm)

	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

<p>1(1C)</p>	<p>2(2X1C)</p>	<p>5(2C)</p>
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Wiring diagram (Bottom views)

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