



60×40×22

# NE720



CH0054066—2000

## Features

- Magnet latching relay.
- High sensitivity & reliability.
- Well anti-shock and anti-vibration.
- Heavy contact load.

## Ordering Information

**NE720 A Z DC12V**

1 2 3 4

1 Part number: NE720

3 Enclosure: Z: Dust cover

2 Contact arrangement: A:1A; B:1B

4 Coil rated Voltage(V): DC:6,12, 24

## Contact Data

Contact Arrangement	1A (SPSTNO), 1B (SPSTNC)	
Contact Material	Ag-SnO <sub>2</sub>	
Contact Rating(resistive)	100Amax/240VAC	
Max. Switching Power	23000VA(COSΦ=1)	2300VA(COSΦ=0.4)
Max. Switching Voltage	400VAC	Max. Switching Current:100A
Contact Resistance or Voltage drop	≤1mΩ	Item 3.12 of IEC255-7
Operation life	Electrical (Rated load)	10 <sup>4</sup> Item 3.30 of IEC255-7
	Mechanical (No load)	10 <sup>6</sup> Item 3.31 of IEC255-7

## Coil Parameter

DASH NUMBERS	COIL RATED VOLTAGE VDC	COIL RESISTANCE Ω±10%	SWITCHING VOLTAGE VDC (<80% of rated voltage)	OPERATING VOLTAGE RANGE VDC	PULSE MAGNITUDE ms	COIL POWER CONSUMPTION W	Operate Time ms	Reset Time ms
2 COIL								
006-4500	6	2×8	<4.8	4.9~10	≥36	4.5	<12	<6
012-4500	12	2×32	<9.6	9.8~20				
024-4500	24	2×130	<19.2	19.7~40				
1 COIL								
006-2250	6	16	<4.8	4.9~10	≥36	2.25	<12	<6
012-2250	12	64	<9.6	9.8~20				
024-2250	24	260	<19.2	19.7~40				

**CAUTION:** 1.When latching relays are installed in equipment, the latch and reset coil should not be pulsed simultaneously. coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to in be the magnetically neutral position .  
2.Switching voltage is for test purpose only and are no to be used as design criteria.

**Operation condition**

Insulation Resistance	1000M $\Omega$ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 2000V surge Voltage 2kV	Item 6 and 8 of IEC255-5
Between contact and coil	50Hz 4000V surge Voltage 12kV	Item 6 and 8 of IEC255-5
Creepage distance	8.4mm	Addenda B of IEC255-5
Shock resistance	Functional 100m/s <sup>2</sup> ; Survival: 1000 m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N; 2.5N · m	IEC68-2-21 Test Ua1 and Ud
Solderability	235 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3 Test Ca
Mass	82g	

**Qualification inspection:**

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

**Safety approvals**

Safety approval	CCEE
Load	100A/250VAC

**Dimensions (Unit: mm)**

The technical drawings include:
 

- Top and side views of the relay with dimensions: 4.5, 36.1, 19.2, 1.5, 5, 3-10x0.7, 5, 13, 4.1, 47.5, 14.5, 6.16, 2.2, 44.35, 61, 2-M6, 11, 0.4.
- Mounting (Bottom views) showing dimensions: 4.5, 36.1, 19.2, 1.5, 5, 13, 4.1, 47.5, 5, 6.16.
- Wiring diagrams showing terminal connections: 3(-), 4(+), 2(-) and 3, 4, 2(+).

Dimensions	mm	inch
	0.4	0.016
	0.6	0.024
	0.7	0.027
	5.0	0.197
	6.0	0.236
	6.16	0.243
	11.0	0.433
	12.0	0.472
	13.0	0.512
	14.5	0.571
	15.0	0.597
	19.2	0.756
	22.0	0.866
	36.1	1.441
	40.0	1.575
	44.35	1.746
	45.0	1.772
	47.5	1.870
	60.0	2.362

**Wiring diagram**

**NOTES**

- 1). Dimensions are in millimeter.
- 2). Inch equivalents are given for general information only.
- 3). Relays shall have plus(+) or plus(+) and minus(-) signs placed on the circuit diagram as shown.