60×40×22

N E 7 2 0

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
2 Contact arrangement：A:1A；B:1B
3 Enclosure： Z: Dust cover
4 Coil rated Voltage(V)：DC:6,12, 24

Contact Data

Contact Arrangement	1A（SPSTNO）、1B（SPSTNC）	
Contact Material	$Ag{\cdot}SnO_2$	
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)	10^4	Item 3.30 of IEC255-7
Operation life Mechanical (No load)	10^6	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	1000MΩ 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^2;Survival:1000 m/s^2 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 Ua1and Ud
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	82g	

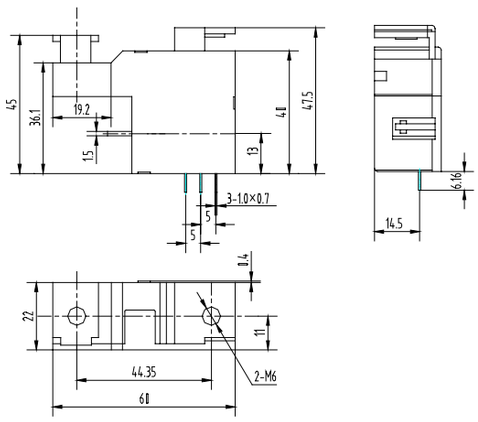
Qualification inspection:

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

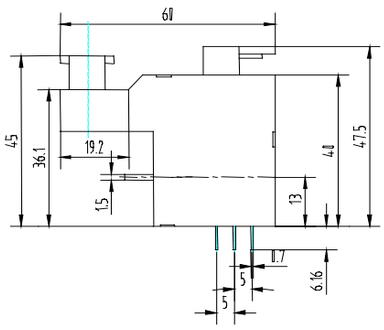
Safety approvals

Safety approval	CCEE
Load	100A/250VAC

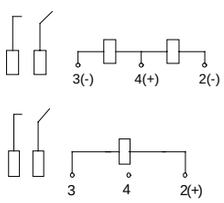
Dimensions (Unit: mm)



Dimensions



Mounting (Bottom views)



Wiring diagram

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

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.