

ZN3770D Artificial Power Network (LISN) - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3770D
Type: Artificial Power Network (LISN)
Frequency Range: 150kHz – 30MHz

The ZN3770D is a V-type 50Ω/50μH Artificial Power Network (LISN), designed for conducting disturbance tests. It provides stable impedance within the specified frequency range, isolates the Device Under Test (DUT) from high-frequency noise on the power line, and couples the interference voltage to the receiver. The device complies with the CISPR16-1 standard, equivalent to the national standard GB/T6113.1.

2. Technical Specifications

Parameter	Specification
Frequency Range	150kHz – 30MHz
Impedance Characteristics	50Ω/50μH
Impedance Error	±20% (Refer to Impedance Characteristics Chart)
Phase Angle Error	±11.5°
Isolation	≥40dB
Operating Current	4×200A
Operating Voltage	AC 400V 50Hz; DC 600V
Auxiliary Power	AC 220V/0.5A (dedicated for fan)
RF Output	N-type, 50Ω
Dimensions	550mm × 380mm × 580mm
Weight	40kg

3. Key Features

- **Stable Impedance:** Provides stable impedance within the specified frequency range for conducting disturbance tests.
 - **High Isolation:** Effectively isolates high-frequency interference, ensuring separation of the DUT from noise on the power line.
 - **Compliance with Standards:** Meets the CISPR16-1 standard, equivalent to GB/T6113.1, for conducting disturbance tests.
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4. Panel Functions

1. Front Panel

- Ground Terminal
- Selector Switch
- Measurement Output
- Power Output
- Calibration Ground Terminal

2. Rear Panel

- Power Input
 - Grounding Connector
 - Auxiliary Power Input (for fan operation)
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5. Operating Instructions

1. Three-Phase Four-Wire System

- Securely connect the PE terminal to the grounding plate (both front and rear grounding).
- Connect the front panel L1, L2, L3, N power output terminals to the DUT input terminals L1, L2, L3, N, and connect the interference test equipment (50Ω input).
- Connect the rear panel L1, L2, L3, N power input terminals to the mains L1, L2, L3, N, and then turn on the power.
- Use the selector switch to choose the desired test line.

2. Single-Phase System

- Securely connect the PE terminal to the grounding plate (both front and rear grounding).
- Connect the front panel L3, N terminals to the DUT input terminals L, N, and connect the interference test equipment (50Ω input).

- Connect the rear panel L3, N terminals to the mains L, N, and then turn on the power.
 - Use the selector switch to select the L3, N line for testing.
 - When the operating current exceeds 80A, use the fan for cooling (rear panel power socket requires 220V power for fan operation).
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6. Caution

- Only trained personnel should operate this device.
 - Read the user manual carefully before use, and follow the connection instructions.
 - The device should be used in a well-ventilated, dry environment, and the PE ground must be securely connected. Safety warning signs must be displayed during operation.
 - Disconnect the power after use and allow the capacitors to discharge fully to prevent electric shock.
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7. Standard Accessories

Item	Quantity
ZN3770D Main Unit	1 unit
User Manual	1 copy
N-N Test Cable (1m)	1 unit
Power Cable	1 unit

8. Warranty

- **Warranty Period:** 18 months from the date of shipment, covering defects under normal usage and transportation conditions.
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9. Product Photo



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