

## LISN Type LISN-4-250

Item no. 32607

### Application

Within the range of the line-bounded interfering voltage measurement technique, the standard CISPR-16-1 demands measuring instruments which are simulating a reproducible impedance of the mains supply and are blocking disturbances out of the mains. In a frequency range of 150 kHz to 30 MHz existing, a so-called LISN is required with a defined developing of impedance.

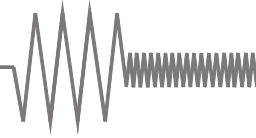
### Solution

For this purpose MTS Systemtechnik has developed a LISN which fulfills the requirements of the CISPR 16-1. This LISN has 4 phases with a maximum ampacity of 4x 250A.



### Characteristics

- ▶ LISN according to CISPR, EN, VDE, ANSI
- ▶ Frequency range 150 kHz to 30 MHz
- ▶ Permanent current up to 4x 250 A
- ▶ Contact-voltage-proof high current connections
- ▶ Air-core coil
- ▶ Small insertion loss
- ▶ Temperature control
- ▶ Integrated cooling
- ▶ Remote controlable over TTL-levels
- ▶ Calibrated according to CISPR 16-1:1999



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### Technical datas:

#### Electrical specifications :

Frequency range:	150 kHz to 30 MHz
Impedance:	50 $\mu$ H // 50 Ohm 34,3 Ohm (+/- 20%) @ 150 kHz 39,0 Ohm (+/- 20%) @ 200 kHz 44,0 Ohm (+/- 20%) @ 300 kHz 49,0 Ohm (+/- 20%) @ 700 kHz 50,0 Ohm (+/- 20%) @ 30 MHz
Insertion loss:	< 2,0 dB
Isolation:	> 30 dB (phases) > 30 dB (DUT-MAINS)
Limiter:	140 dB $\mu$ V (fixed)
Attenuator:	20 dB/ 2W (fixed)
Operating voltage:	115/ 200 VAC (DC-63 Hz) 230/ 400 VAC (DC-63 Hz)
Power rating:	4x 250 A
Internal voltage drop:	Max. 5% of the operating voltage
DC resistance:	< 10 m $\Omega$ typ.
Cooling:	4x fan 120mm
Auxiliary current supply:	115/ 230 V - 60 VA switchable

#### Connectors:

Front panel:	- High current connections (DUT) - Grounding pin (M10) - Test receiver (BNC female)
Rear panel:	- High current connections (mains) - Grounding pin (M10) - RF-ground (135x 35 mm) - Rubber connector - Remote control (15 pol.)

#### Indication:

- Measuring path (LED, green)
- Remote mode (LED, red)
- Temperature rise (LED, red)

#### Control:

Remote:	TTL-level
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#### Mechanical specifications:

Dimensions (w xh x d):	450x 325x 580 mm
Front panel:	Colorless anodized / engraved
Rear panel:	Colorless anodized / engraved
Weight:	39,5 kg

#### Environmental conditions:

Working temperature:	+5 °C to +60 °C
Reference temperature for declared specifications:	+5 °C to +60 °C
Storage temperature:	-30 °C to +70 °C

#### Delivery package:

- LISN Type LISN-4-250
- High current connectors (8 pcs.)
- BNC cable, 1m
- Power cord, 1m
- Manual
- Correction values
- COC

#### Comments:

Warranty:	12 month
Intervall of calibration:	12 month

#### Recommended accessories:

- Measurement cable assembl.
- High current connect. cables
- Calibration adapter
- Remote adapter (RS 232)
- Remote adapter (USB)
- Remote adapter (Rohde & Schwarz)