



NNB 52 LINE IMPEDANCE STABILIZATION NETWORK FOUR-LINE-V-LISN



Application

Line impedance stabilization network (LISN) such as the NNB 52 are used to measure distortion signals on the mains cord of an electrical equipment under test (EUT). The distortion signals are usually generated or picked up inside of the EUT and the mains cord acts as an antenna. European and international EMC regulations define maximum permissible signal levels and frequency bands for such distortion signals.

The distortion signal to be measured is available on a coaxial N-connector that is mounted on the front panel of the NNB 52. For the actual measurement of the distortion signals a measuring receiver can be used. The V-network is part of a complex EMC-test setup that also has been standardised in CISPR 16-2-1 (EN 55016-2-1).

Power supply and connectors

The NNB 52 has two separate input connectors for the mains power that are located on the rear of the instrument. The CEE mains socket 4x32 A is used to power the EUT.

This IEC mains connector is used to supply the required power for the control circuit of the LISN. It also supplies the AC power for the built in blower.

Earth connection

The construction of the NNB 52 allows a massive connection to the shielded room wall. Left and right of the front are grounding bars. Additional are located a connection bolt and wing screw on the rear of the LISN.

Remote control connection

The NNB 52 has two built-in remote control circuits and can be controlled with EMI receivers from MEB/Schaffner/Teseq or Rohde & Schwarz.

Technical specifications

Standards applied:	CISPR 16-1-2, MIL-STD-461D and E
Frequency range:	9 kHz to 30 MHz
Attenuator (build-in):	10 dB
NNB operating voltage:	100 to 120 V / 220 to 240 V, 50 to 63 Hz
EUT operating voltage:	max. 400 V
EUT frequency:	DC to 63 Hz
EUT phase detection function (LED):	>48 V
EUT operating current:	max. 4x32 A
Line impedance:	50 Ω (50 μH + 5 Ω)
Nominal output impedance:	50 Ω
RF connector type:	N female
Artificial hand / connector type:	510 Ω + 220 pF / 4 mm banana
Limiter:	approx. 136 dBμV typ., switchable



- Four-line-V-LISN
- Compliant to CISPR 16-1-2
- Current up to 32 Amps
- Frequency range 9 kHz to 30 MHz
- Hand and remote operated
- Massive grounding bars

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Technical specifications, continued

Artificial PE:	switchable
Connector type for two wire remote control:	KFV 60
Connector type for four wire remote control:	D-sub 25 pins
Size (W x D x H) without mounting parts:	450 mm x 375 mm x 265 mm
Size (W x D x H):	480 mm x 485 mm x 275 mm
Weight:	approx. 23.3 kg

Delivery information

Part number	Description
253551	NNB 52 Four-line-V-LISN for 32 A
97-253550	NNB 5x-TC Traceable calibration (ISO17025) order only with new device
232080	LE 216 Control cable SCR 35xx / NNB xx
243134	LE 234 Control cable SMR 45xx / NNB xx

