

LISN type LISN-2-16

MTS-No. R65.00.0010

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. If a frequency range of 9 kHz to 30 MHz is existing, a so-called LISN is required with a defined developing of impedance.

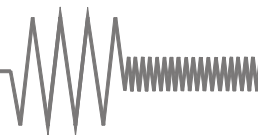
Description

For this purpose MTS Systemtechnik has developed a LISN which fulfills the requirements of the CISPR 16-1. This LISN has 2 phases with a maximum ampacity of 2x16A.



Characteristics

- ▶ LISN according to CISPR, EN, VDE, ANSI
- ▶ Frequency range 9 kHz to 30 MHz
- ▶ Test connection through protection conductor socket
- ▶ International style (G, GB, F, I, CH, USA)
- ▶ Air-core coil
- ▶ Small insertion loss
- ▶ Operating voltage switchable (115/ 230V)
- ▶ 84 TE desktop case with 3 HU
- ▶ Remote controllable over TTL-levels
- ▶ Permanent current up to 2x 16A
- ▶ Calibrated according to CISPR 16-1:1999



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Configuration:

2x 16A

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω // 50 μ H + 5 Ω 5,2 Ω (+/- 20%) @ 9 kHz 5,4 Ω (+/- 20%) @ 10 kHz 7,3 Ω (+/- 20%) @ 20 kHz 14,4 Ω (+/- 20%) @ 50 kHz 19,0 Ω (+/- 20%) @ 70 kHz 25,1 Ω (+/- 20%) @ 100 kHz 32,7 Ω (+/- 20%) @ 150 kHz 37,7 Ω (+/- 20%) @ 200 kHz 47,2 Ω (+/- 20%) @ 500 kHz 48,5 Ω (+/- 20%) @ 700 kHz 49,3 Ω (+/- 20%) @ 1 MHz 50,0 Ω (+/- 20%) @ 5 MHz 50,0 Ω (+/- 20%) @ 30 MHz
1.2 Frequency range	9 kHz to 30 MHz
1.3 Isolation	>35 dB (measuring pathes L1 to N) >40 dB (DUT-MAINS)
1.4 Insertion loss:	< 2,0 dB
1.5 High pass filter	150 kHz (connectable) 5 pol., Chebycheff
1.6 Limiter	136 dB μ V (connectable)
1.7 Attenuator	20 dB / 2 W (connectable)
1.8 Artificial hand	510 Ω + 220 pF
1.9 PE-simulation	50 μ H / 16 A air-core coil (connectable)
1.10 Auxiliary current supply	115 VAC (48-63 Hz) 230 VAC (48-63 Hz) switchable through voltage selector switch
1.11 Power rating	2x 16 A (230V)
1.12 Internal voltage drop	max. 10% of the operat. voltage
1.13 DC-resistance	<400 m Ω (L1 and N)

2 Connections:

2.1 Front side	Test item (protected plug box) Hand reproduction Test receiver (BNC female)
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Remote control (15 pol.)
Voltage selector switch

3 General specifications:

3.1 Indication	Phase L1 / N (LED, green) Phase indicator (LED, green) Remote (LED, red) High pass (LED, green) Attenuator (LED, green) Impulse limiter (LED, green) PE-simulation (LED, green)
3.2 Remote control	TTL-level
3.3 Operating temperature	+5 $^{\circ}$ C to +60 $^{\circ}$ C
3.4 Reference temperature for specifications	+5 $^{\circ}$ C to +60 $^{\circ}$ C
3.5 Storage temperature	-30 $^{\circ}$ C to +70 $^{\circ}$ C
3.6 Dimensions	84 TE desktop case x 3 HU x 310 mm (dimensions without handles and connections)
3.7 Colour	Front side colourless anodized Rear side colourless anodized
3.8 Weight	6,9 kg

4 Delivered parts:

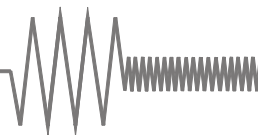
LISN-2-16
CD-ROM with operating manual, correction values and test certificate

5 Comments:

Warranty	12 months
Intervall of calibration	12 months
RoHS-compliant	Yes

6 Recommended accessories:

Remote adapter (RS-232, USB or Rohde & Schwarz)
Cable assemblies



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