

# L3-32

Three phase plus neutral V-Network  
9 kHz to 30 MHz, 32 A for AC and DC powered EUT



## Provided Features

- Powering the EUT
- EUT termination to a standardized impedance respect to the reference ground
- Coupling the measuring receiver to the disturbance generated by the EUT
- Decoupling the measuring receiver from unwanted RF signals from the power line

## Main Features

- 9 kHz to 30 MHz frequency range
- Up to 32A continuous rated output current
- Built-in, selectable 150 kHz high pass filter
- Artificial Hand circuit
- Suitable for DC to 60 Hz power lines
- Local and remote control from PMM EMI receivers
- Meets the requirements of several standards including CISPR 16-1-2, VDE 0876, FCC part 15, MIL-STD 461F

The AMN - Artificial Mains Network, also known as LISN - Line Impedance Stabilization Network - is the ancillary device intended for repeatable and accurate measurement of the disturbance voltage that an EUT (Equipment Under Test) may inject into the power line or mains.

This is obtained by providing well known impedance value and phase response across the frequency range of the test.

L3-32 is suitable for measurement on AC 3-phase power circuits from DC to 60 Hz. The equivalent V-Network circuit of  $50 \Omega // (5 \Omega + 50 \mu\text{H})$  with  $250 \mu\text{H}$  choke is fully compliant with the reference standards.

PMM Artificial Mains Networks provide robust and stable mechanical construction, high quality electric components, easy and perfect grounding, solid input-output power connections. They can be used in conjunction with any EMI receiver or spectrum analyzer and offer features required for safe, repeatable and accurate measurements.

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## SPECIFICATIONS

Frequency range	9 kHz to 30 MHz
Max. continuous rated output current	IEC plug 32 A Schuko plug 16 A
Max. operating voltage	
Single-phase (L/N) (L/PE) (N/PE)	230 VAC; 325 VDC
Three-phase (L/PE) (N/PE) (L/L) (L/N)	230 VAC; 325 VDC 400 VAC; 565 VDC
Input mains frequency range	DC to 60 Hz
Equivalent circuit	50 Ω // [5 Ω + 50 μH] with 250 μH choke
RF output	BNC female
Test item	32 A IEC connector 16 A SCHUKO connector
Rated temperature	-10 °C to +40 °C
Storage temperature	-25 °C to +75 °C
Overall Dimensions mm (W x H x D)	342 x 254 x 510 mm
Weight	16,5 kg



## Ordering Information:

L3-32 3-phase Artificial Mains Network

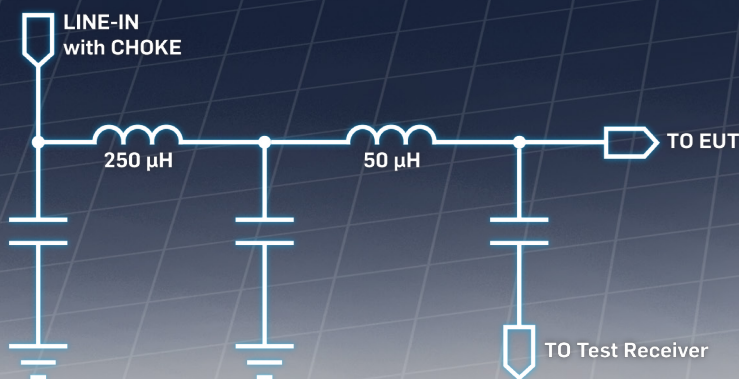
**Includes:** IEC mains plug, RF cable, LISN remote control cable, user's manual, calibration certificate.

## Optional accessories:

LISN service kit

(AC-BNC adapter for LISN verification and calibration)

- Electrical safety and presence of ground protection relays do require the installation of properly rated insulating transformer(s) between mains power line and AMN line inputs.
- High mains noise may require the installation of properly rated mains filters to reduce the level of unwanted signals.



L3-32 equivalent circuit

## Related Products

### Receivers

- 7010/00: EMI receiver 150 kHz to 1 GHz
- 7010/01: EMI receiver 9 kHz to 1 GHz
- 7010/02: EMI receiver 9 kHz to 30 MHz
- 9010: EMI receiver 10 Hz to 30 MHz
- 9010F: EMI receiver 10 Hz to 30 MHz
- 9010/03P: EMI receiver 10 Hz to 300 MHz
- 9010/30P: EMI receiver 10 Hz to 3 GHz
- 9010/60P: EMI receiver 10 Hz to 6 GHz

### LISN

- L2-16B: single phase AMN, 16 A
- L3-64: 4 lines, 3-phase AMN, 63 A
- L3-64/690V: 4 lines, 3-phase AMN, 63 A
- L3-100: 4 lines, 3-phase AMN, 100 A
- L1-150M: single-path, 50 Ohm AMN, 150 A
- L1-150M1: single-path, 50 Ohm AMN, 150 A
- L1-500: single phase AMN, 500 A
- L3-500: 4 lines, 3-phase AMN, 500 A
- L2-D: Delta LISN for telecom, 2 A, 150 Ω

### RFI Filters

- FIL-L2-16F: single phase RFI filter, 16 A
- FIL-L2-24M: single phase RFI filter, 24 A
- FIL-L3-32M: 3-phase+neutral RFI filter, 32 A
- FIL-L3-70M: 3-phase+neutral RFI filter, 70 A

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