

# L3-64 L3-64/690V

Three-phase plus neutral V-Network

9 kHz to 30 MHz, 60/63 A for AC and DC powered EUT



## Main Features

- 9 kHz to 30 MHz frequency range
- Up to 60/63 A continuous rated output current
- 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
- Powering the EUT
- EUT termination to a standardized impedance with respect to ground
- Couples the measuring receiver to the disturbance generated by the EUT
- Decouples the measuring receiver from unwanted RF signals from the power line

Artificial networks or Line Impedance Stabilization Networks (LISNs) are ancillary devices for the repeatable, accurate measurement of the disturbance voltage that EUT (equipment under test) may inject into the power mains.

This is accomplished through the use of reference impedance values and phase responses across the frequency range of the test.

L3-64 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 common standards.

PMM LISNs feature robust and stable mechanical construction, high quality electric components, easy and perfect grounding and solid input-output power connections. They can be used in conjunction with any EMI receiver or spectrum analyzer and are built to provide safe, repeatable and accurate measurements.

# L3-64, L3-64/690V

Three-phase plus neutral V-Network 9 kHz to 30 MHz, 60/63 A for AC and DC powered EUT

SPECIFICATIONS	L3-64	L3-64/690V
Frequency range	9 kHz to 30 MHz	9 kHz to 30 MHz
Max. continuous rated output current	63 A	IEC60309 63 A UL1682 UL1686 60 A
Max. operating voltage (L/PE) (N/PE) (L/L) (L/N)	230 Vac; 325 Vdc 400 Vac; 565 Vdc	400 Vac; 565 Vdc 690 Vac; 975 Vdc 347 Vac; 490 Vdc 600 Vac; 850 Vdc
Input mains frequency range	DC to 60 Hz	DC to 60 Hz
Equivalent circuit	50 Ω // [5 Ω + 50 μH] with 250 μH choke	50 Ω // [5 Ω + 50 μH] with 250 μH choke
RF output	BNC female	BNC female
Test item	63 A IEC connector	4P5W connector
Operating temperature	-10 °C to +40 °C	-10 °C to +40 °C
Storage temperature	-25 °C to +75 °C	-25 °C to +75 °C
Dimensions (W x H x D)	465 x 450 x 740 mm	465 x 450 x 730 mm
Weight	50 kg	50 kg

## Ordering information:

**L3-64** 3-phase Artificial Mains Network

**L3-64/690V** 3-phase Artificial Mains Network with CSA-listed connectors (Canada)

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)

- As a safety precaution, due to the ground protection relays, properly rated insulating transformers must be installed between the power mains and the LISN inputs.
- Noise levels may require the installation of properly rated mains filters to reduce unwanted signals.



L3-64 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
- 7010/03: EMI Receiver 9 kHz to 3 GHz
- 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

### LISNs

- L2-16B: single phase AMN, 16 A
- L3-32: 4 lines, 3-phase AMN, 32 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



A BRAND OF



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