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



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 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

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.

L3-64 is suitable for measurement on AC 3-phase power circuits from DC to 60 Hz. The equivalent V-Network circuit of 50 Ω // (5 Ω + 50 $\mu H) with 250 <math display="inline">\mu H$ 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.





SPECIFICATIONS	L3-64	L3-64/690V	
Frequency range	9 kHz to 30 MHz	9 kHz to 30 MHz	
Max. continuous rated	+	IEC60309	UL1682 UL1686
output current	63 A	63 A	60 A
Max. operating voltage (L/PE) (N/PE)	230 VAC; 325 VDC	400 VAC; 565 VDC	347 VAC; 490 VDC
(L/L) (L/N)	400 VAC; 565 VDC	690 VAC; 975 VDC	600 VAC; 850 VDC
Input mains frequency range	DC to 60 Hz	DC to 60 Hz	
Equivalent circuit	$50 \Omega // [5 \Omega + 50 \mu H]$	50 Ω // [5 Ω + 50 μ H]	
with 250 μH choke		with 250 μͰ	d choke_
RF output	BNC female	BNC female	
Test item	63 A IEC connector	4P5W connector	
Rated temperature	-10 °C to +40 °C	-10 °C to +40 °C	
Storage temperature	-25 °C to +75 °C	-25 °C to +75 °C	
Overall Dimensions mm (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)

mains filters to reduce the level of LINE-IN unwanted signals. **TO EUT** 250 μΗ 50 μH

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
- · L3-32: 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

Electrical safety and presence

of ground protection relays do

rated insulating transformer(s)

between mains power line and

High mains noise may require

the installation of properly rated

AMN line inputs.

require the installation of properly

• FIL-L3-70M: 3-phase+neutral RFI filter, 70 A





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