

Three phase plus neutral V-Network 9 kHz to 30 MHz, 500 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 300 A (continuous); 500 Å (20 min.) rated output current
- Suitable for DC to 60 Hz power lines
- Built-in, selectable 250 μH coil (Choke)
- Meets the requirements of several standards including CISPR 16-1-2, VDE 0876, FCC part 15, MIL-STD 461F
- Fan air cooling
- Available in single phase unit (see data sheet L1-500)

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.

L3-500 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 μ H) with 250 μ H choke is fully compliant with the reference standards.

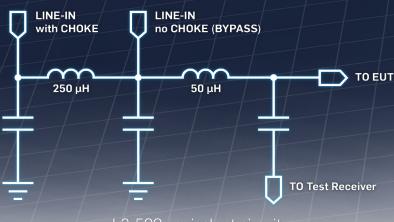
PMM Artificial Mains Networks provide robust and stable mechanical construction, high quality electric components, easy and perfect grounding, solid input-output power connections. They can be used in conjunction with any EMI receiver or spectrum analyzer and offer features required for safe, repeatable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



L3-500

Three phase plus neutral V-Network 9 kHz to 30 MHz, 500 A for AC and DC powered EUT

SPECIFICATIONS			
Frequency range	9 kHz to 30 MHz	Electrical safety and presence of ground protection relays do require the installation of properly rated insulating transformer(s) between mains power line and	
Maximum rated output current	500 A (20 min., starting		
	test at max 25 °C		
	LISN internal temperature)	AMN line inputs.	
	300 A (continuous)		
Maximum operating voltage		High mains noise may require the installation of properly rated	
(L/N) (L/PE)	400 VAC; 565 VDC	mains filters to reduce the level of unwanted signals.	
(L/L) (L/N)	690 VAC; 975 VDC		
Power line frequency range	DC to 60 Hz		
Equivalent circuit	50 Ω // [5 Ω + 50 μΗ]	Ordering Information:	
	with 250 µH Choke or Bypass	L3-500 three phase plus neutral V-Network	
RF output	BNC female	9 kHz to 30 MHz, 500 A for AC and DC powered EUTs	
EUT, power line, ground connectors	M14 bolts	Optional accessories: SBRF4 RF switching box Automatic (in conjunction with PMM receivers) and manual switching of up to four single-path AMN. Internal 50 Ohm terminations and	
Rated temperature	-10 °C to +40 °C		
Storage temperature	-25 °C to +75 °C		
Dimensions (W x H x D) Weight	(555 x 930 x830 mm) 248 kg		
Services AC supply	– 230 V - 50/60 Hz, 50 VA each line		
Air cooling fans	2 x 120 mm each line	switchable 150 kHz high-pass filter. Low insertion loss.	
LED indicators	Power, fan, overheating, AC present	Max. operating frequency: 108 MHz.	
Contactor	250 V AC/DC - 10 A max		



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
- L3-64: 4 lines, 3-phase AMN, 63 A
- L3-64/690: 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

E-Mail: nardait.support@L-3com.com

Internet: www.narda-sts.it

- L1-500: single phase AMN, 500 A
- L2-D: Delta LISN for telecom, 2 A, 150 Ω



A BRAND OF



• 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

RFI Filters

- Headquarter: Via Benessea, 29/B
- -3500-FEN-31203 Specifications subject to changes without prior notice

17035 Cisano sul Neva (SV) - ITALY Phone: +39 0182 58641 Fax: +39 0182 586400