

Terminal Protection Device



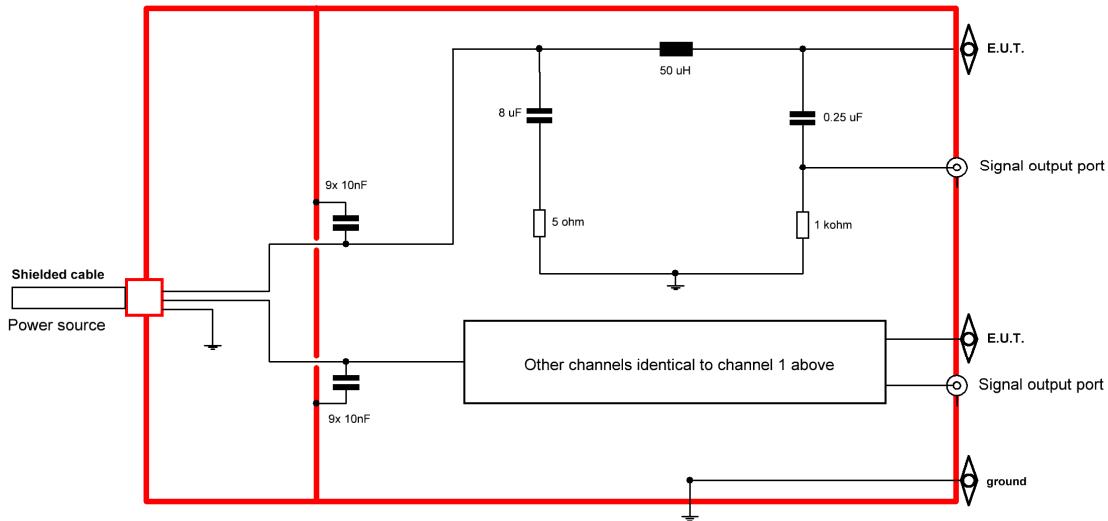
Montena terminal protection devices (TPD) are specially designed for the protection of the equipment during NEMP test according to MIL-STD-461 RS105. TPD allows also the measurement of conducted disturbances. The cabinet is composed of LISN channels for the connection and measurement of phases and neutral. The TPD is available in two versions: for single-phase and 3-phase (3P+N) power supplies. The mains side is filtered with a feedthrough capacitor and allows connection of a shielded cable up to 37 mm diameter. The current capability is up to 100 A. Connection to the ground can be made either with the 4 metallic feet or with the yellow-green earthing terminal. A shielded 20 m cable up to 100 A or a lighter 32 A version can be ordered separately for connection to the mains supply.



SPECIFICATIONS

Type	TPD50-100-2	TPD50-100-4
Number of channels	2	4 (3P+N)
Maximum continuous current	2 x 100 A	4 x 100 A
Dimensions (L x W x H)	50 x 45 x 23 cm	83 x 45 x 23 cm
Weight	19 kg	37 kg
Standard	MIL-Std 462 D and MIL-Std 461 E/F/G	
Frequency range	10 kHz – 100 MHz	
Impedance	50 Ω // 50 µH ± 20 %	
Feedthrough capacitors	90 nF / 250 Vac	
Maximum voltage	325 Vdc 230 Vac (50 Hz) / 400 V between phases 125 Vac (400 Hz)	
Mains connectors (EUT side)	wing terminals M8	
Signal output ports (EUT side)	N 50 Ω	
Mains connectors (mains side)	internal screws M8	
Cable gland (mains side)	Agro Progress MS, 33 to 37 mm diameter cable	
Optional shielded power cables	L = 20 m, 32 A, 6 mm2, open end L = 20 m, 100 A, 35 mm2, open end	L = 20 m, 32 A, 6 mm2, open end L = 20 m, 100 A, 35 mm2, open end

Block schematic



Ordering information

TYPE	DESCRIPTION
TPD50-100-2	LISN with TPD for MIL-Std 461 E/F/G, 2 paths, 50 uH, max 100 A per channel. Shielded power cable not included.
CA-TPD20-2-32	20m shielded power cable for TPD50-100-2, max 32 A per channel, open end.
CA-TPD20-2-100	20m shielded power cable for TPD50-100-2, max 100 A per channel, open end.

TYPE	DESCRIPTION
TPD50-100-4	LISN with TPD for MIL-Std 461 E/F/G, 4 paths (3P+N), 50 uH, max 100 A per channel. Shielded power cable not included.
CA-TPD20-4-32	20m shielded power cable for TPD50-100-4, max 32 A per channel, open end.
CA-TPD20-4-100	20m shielded power cable for TPD50-100-4, max 100 A per channel, open end.