


DN-LISN160-32 is a Line impedance stabilisation network for the high voltage and high current application in accordance with DO160 Section 22

Revised: 14.December 2010

1 General Information

DN-LISN160-32	Description
	<ul style="list-style-type: none"> • The LISN can be used for one a.c. source and for one d.c. source simultaneously. Both decoupling circuit a.c. and d.c. are independently. • On the left side is the a.c. LISN and on the right the d.c. LISN • Both filter can be used up to 32 A continuously

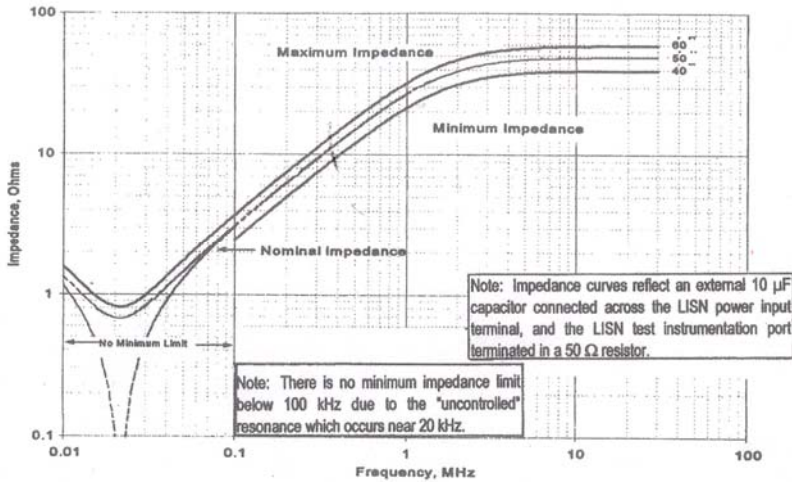
2 Technical data

Impulse voltage	SURGE	up to 4.3 kV
Source protection	Varistor	275 V / 1000J
EUT power a.c.		
Voltage rms max.	L to N 150 V at 400 Hz	L/N to PE 85V at 400 Hz
Voltage rms max. L to N	L to N 480 V	50/60Hz
Voltage rms max. L/N to PE	280 V	50/60Hz
Current maximum	continuous	32 A
EUT power d.c.		
Voltage d.c. maximum	+ to - or +/- to GRD	50 V
Current maximum	continuous	32 A
Standard	DO160D Section 22	Figure 22-9 LISN
Usable with testers	MIG0600MS, MIG-OS-MB plus MIG-OS-MB-EXT, MIG0618SS	



For three phase a.c. power supplies two DN-LIS160-32 are required

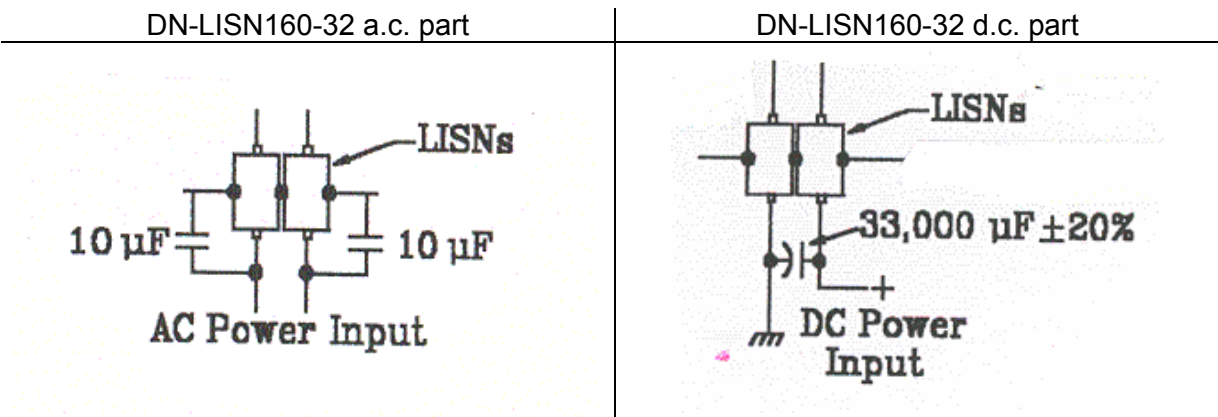
2.1 LISIN Input Impedance Characteristic Figure 9-22



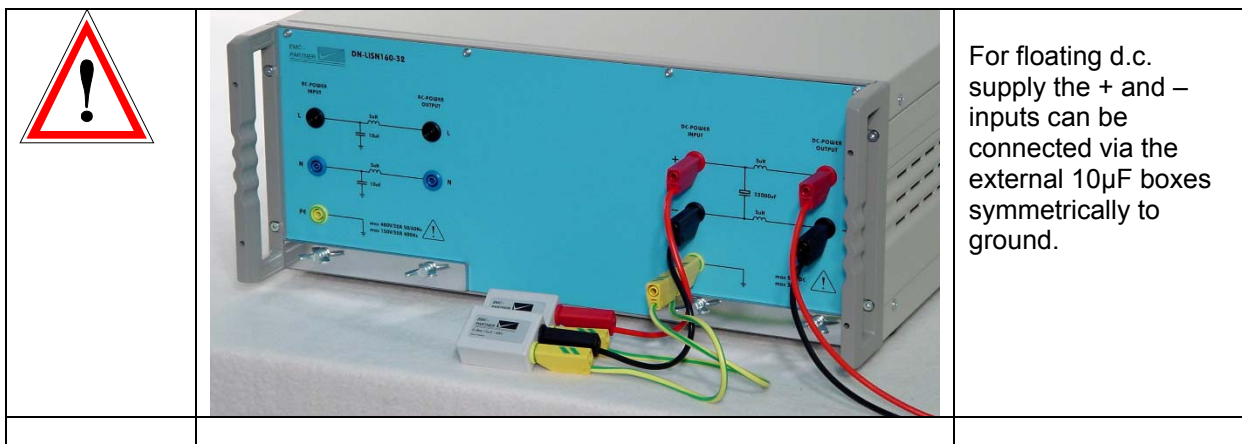
- The LISIN Impedance as in Figure 9-22 for the a.c. part.
- The d.c. part includes on the power input a 33 mF capacitor which influences the impedance below 100 kHz

For further information see „Verification Protocol“.

2.2 Application



A LISN shall be inserted in each primary power input and return line. Power return lines locally grounded in the aircraft installation do not require a LISN. The LISN case shall not be bonded to the ground plane. When LISNs with self resonance above 10 kHz are used (such as standard 5 μH LISN), capacitors shall be inserted at each LISN power input terminal as shown in different figures for the entire test.



3 Standard Accessories, dimension

3.1 Included articles, dimensions

DN-LISN160-32 (Article No. 103580)

Mechanical Dimensions

Unit Height: 4
Length: 57 cm
Width: 45 cm
Height: 19 cm
Net Weight: 13 kg

Included Articles

According to STL-Variante 20, STL-Version 1

Qty	PN	Description
1	103191	Standard accessories pack
1	104802	Standard calibration report
1	103194	CD-UM-IN-ALL includes all User Manuals and Instruction sheets of all EMC PARTNER AG sales products.
1	104834	Broschure Avionics Test System

3.2 Standard accessories

Accessories to DN-LISN160-32 (Article No. 103580)

According to OP-Variante 1, OP-Version 1

Qty	PN	Description	Weight (kg)	Length (cm)	Width (cm)	Height (cm)
1	100261	MC protected banana plug, yellow/green	0	0	0	0
1	100279	MC protected banana plug, blue	0	0	0	0
1	100281	MC protected banana plug, black	0	0	0	0
2	103065	MC safety cable with protected banana plug, yellow/green	0	25	0	0
2	103069	MC safety cable with protected banana plug, red	0	50	0	0
2	103070	MC safety cable with protected banana plug, black	0	50	0	0
1	103073	MC safety cable with protected banana plug, blue	0	200	0	0
1	103074	MC safety cable with protected banana plug, yellow/green	0	200	0	0
1	103077	MC safety cable with protected banana plug, black	0	200	0	0
1	103089	MC safety cable with protected banana plug, yellow/green	0	50	0	0
1	103097	MC safety cable with protected banana plug, red	0	15	0	0
1	103171	MC safety cable with protected banana plug, black	0	15	0	0
1	103176	C-Box with MC sockets (1x black, 1x yellow-green) C-Box with MC sockets	0	5	3.6	2
1	103177	C-Box with MC sockets (1x red, 1x yellow-green)	0	0	0	0

4 Recycling / Disposal

4.1 RoHS directive 2002/95/EG

The DN-LISN160-32 complies with the directive 2002/95/EG (RoHS - Restriction of certain Hazardous Substances).

From December 2005, all EMC Partner products either hand soldered or by machine are produced using lead-free solder.

4.2 WEEE directive 2002/96/EG

The EMC Partner DN-LISN160-32, is exempted from the directive 2002/96/EG (WEEE) under category 9.

The product should be recycled through a professional organisation with appropriate experience for the disposal and recycling of electronic products. EMC Partner are also available to help with questions relating to the recycling of this product.

4.3 Information for dismantling



Remove always power cord fist.

There is no special danger involved in dismantling the DN-LISN160-32.

4.4 Parts which can be recycled

The DN-LISN160-32 contains parts made from steel, aluminium, PVC, two-component sealing compound. The impulse capacitors are filled with non-poisonous mineral oil. The various parts can be separated and recycled.

4.5 Parts which can not be recycled

All parts in the DN-LISN160-32 can be recycled.

5 Service Information

EMC PARTNER AG
Baselstrasse 160
CH - 4242 Laufen
Switzerland
Tel. ++41 61 775 20 50
Fax ++41 61 775 20 59
Email service@emc-partner.ch
Web www.emc-partner.com