

LINE FILTER



A line filter free of discharge current as a compact construction 50 / 400 Hz in an aluminium casing to put on the ground.

Can be used for:

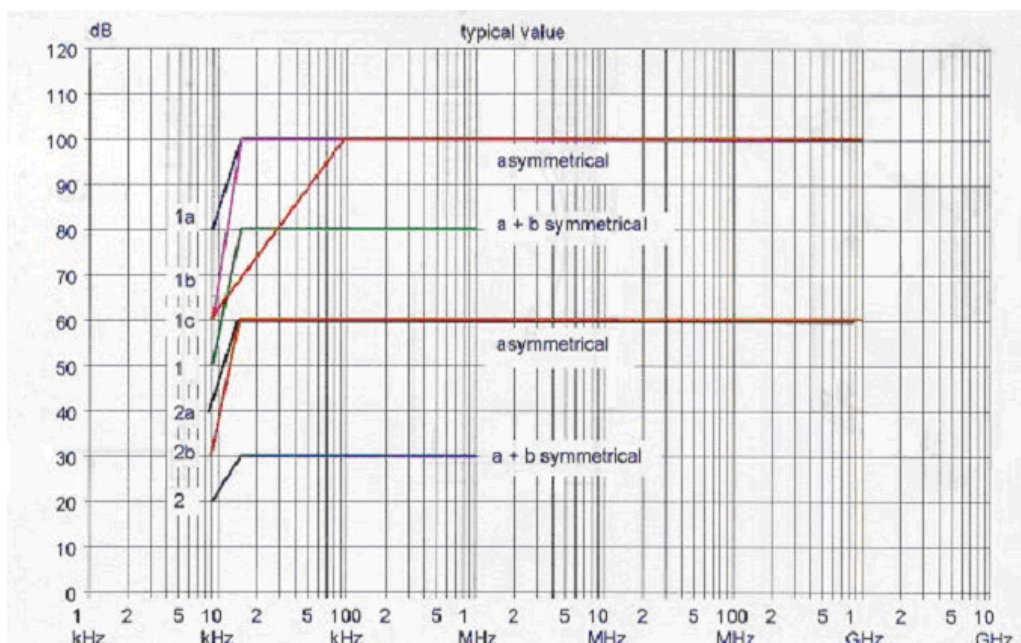
- filtering the main supply for shielded rooms
- filtering complex systems and computer systems
- Tempest applications
- supply to EMC-protected systems

These filters have been developed for both single-phased and three-phased supply, for currents of up to 100 A. They are very compact and have a small leakage current. The standard design with a corrugated tube makes the installation of the line filter flexible.

Features:

- Applicable with 50 and 400 Hz power supply
- Damping 60 and 100 dB
- Compact size
- Small leakage current < 150 mA

Line filter insertion loss



Typical filter performance

Typical asymmetric performance according to MIL-Std. 220A
in a 50-Ohm system with an additional test up to 10 GHz

LINE FILTER

Item no.	N.0111	N.0131	N.0212	N.0232	N.0133	N.0233	N.0234	N.0235	N.0236
rated current	6 A	6 A	25 A	25 A	63 A	63 A	100 A	200 A	400 A
rated voltage	230 V	230/400V	230V	230 V	230/400V	230/400V 230V	230/400V	230/400V	230/400V
insertion loss	60 dB	60 dB	100 dB	100 dB	60 dB	100 dB	100 dB	100 dB	100 dB
curve	2 + 2 b	2 + 2 b	1 x 1 a	1 + 1 a	2 + 2 a	1 + 1 b	1 + 1 b	1b	1b
number of lines	2 x (PH + N)	3 PH + N	2 x (PH + N)	3 PH + N	3 PH + N or 2 x (PH + N)	3 PH + N	3 PH + N	3 PH + N	3 PH + N
earth fault	< 3.5 mA	< 3.5 mA	< 150 mA	< 150 mA					
voltage drop at full load at 60/50 Hz per line	< 1.5 V	< 1.5 V	< 1.0 V	< 1.0 V	< 3.0 V	< 3.0 V			
D/C ... per line			< 60 mΩ	< 60 mΩ	< 40 mΩ	< 40 mΩ	< 60 mΩ		
temperature rise at full load	15°C								
loss at full load			160 W	120 W					
type of filter with 250V suppressor diodes	NT 111	NT 131	NT 212	NT 232	NT 133	NT 233	NT 234	NT 235	NT 236
corrugated tube with EMP flange*	0.7 m								

* standard length, can be manufactured customized

Item no.	A, 100 dB, 3 filter levels	A, 60 dB, 2 filter levels	B	C	D	E	weight
NO + NT 111, 233	622		258	258	286	258	50 kg
NO + NT 133		515	258	258	286	258	50 kg
NO + NT 212, 232	515						40 kg
NO + NT 131, 234, 235, 236: sizes on demand							

