

High performance EMC/EMI filter

Two-Stage Filters FN 2360



- Rated currents from 3 to 6 A
- Exceptional differential and common-mode attenuation
- UL-rated materials
- Optional medical versions (B type)



Performance indicators

Attenuation performance



Rated current [A]



Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Operating frequency	dc to 400 Hz
Rated currents	3 to 6 A @ 40 °C max.
High potential test voltage	P → PE 2000 VAC for 2 sec P → N 1100 VDC for 2 sec
Temperature range (operation and storage)	-25 °C to +100 °C (25/100/21)
Flammability corresponding to	UL 94 V-2 or better
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230V (Mil-HB-217F)	2,400,000 hours

Approvals



Features and benefits

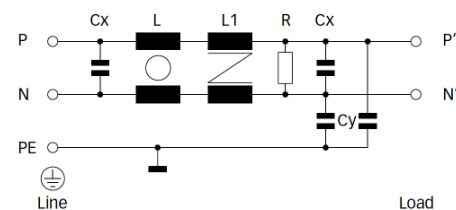
- FN 2360 filters are designed for easy and fast chassis mounting
- FN 2010 filters have a perfect performance/size ratio
- All filters provide a very high differential and common-mode attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Faston terminal connection with additional spade solder possibility
- Optional medical versions (B type)
- Custom-specific versions on request

Typical applications

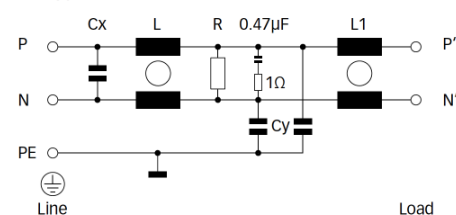
- Electrical and electronic equipment
- Consumer goods
- Medical equipment
- Power supplies
- Office automation equipment
- Datacom equipment

Typical electrical schematic

3A types



6A types



Filter selection table

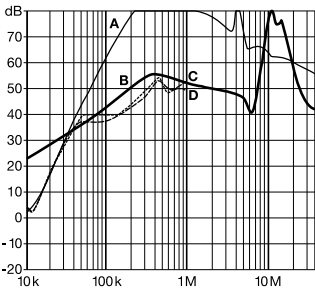
Filter	Rated current @ 40 °C (25 °C)	Leakage current* @ 230 VAC/50 Hz	Inductance		Capacitance		Resistance R	Input/Output connections	Weight
			L	L1	Cx	Cy			
	[A]	[mA]	[mH]	[mH]	[μF]	[nF]	[MΩ]		[g]
FN 2360W-3-0	3 (3.35)	0.52	32.3	0.4	0.47	3	1	-06	300
FN 2360X-6-0	6 (6.7)	0.7	48.2	1.7	1.5	4	1	-06	500
FN 2360B-3-0	3 (3.35)	0.004	32.3	0.4	0.47		1	-06	300
FN 2360B-6-0	6 (6.7)	0.004	48.2	1.7	1.5		1	-06	500

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

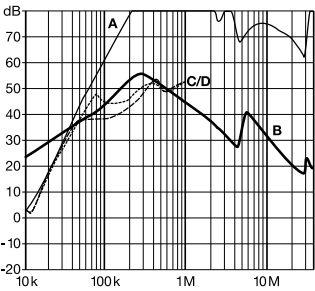
Typical filter attenuation

Per CISPR 17; A = 50 Ω/50 Ω sym; B = 50 Ω/50 Ω asym; C = 0.1 Ω/100 Ω sym; D = 100 Ω/0.1 Ω sym

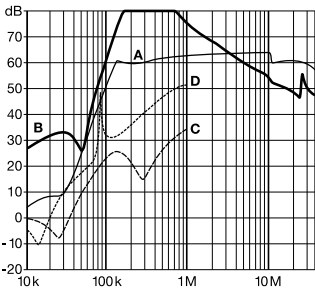
3 A types (W types)



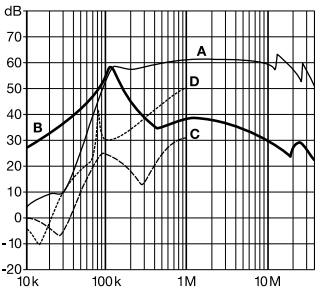
3 A types (B types)



6 A types (X types)



6 A types (B types)



Mechanical data

3 A types

6 A types

Dimensions

	3 A	6 A	Tolerances
A	85 ±0.5	113.5 ±1	
B	54 ±0.5	57.5 ±1	
C	40.3 ±0.5	45.5 ±1	
D	64 ±0.5	94 ±1	
E	49.8	56	±0.5
F	75	103.5	±0.3
G	27	25	±0.2
H	12.3	12.4	±0.5
I	29.8	32.4	±0.5
J	11.4	15.5	±0.5
K	5.3	4.4	
L	6.3	6	
M	0.7	1	
N	6.3 x 0.8	6.3 x 0.8	

All dimensions in mm; 1 inch = 25.4 mm
Tolerances according: ISO 2768-m / EN 22768-m



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