1-phase filters
FN 2350

Exceptional performance EMI filter

schaffner
safety for electronic systems

- **Rated currents from 2 to 10A**
- **Exceptional differential and common-mode attenuation**
- **UL-rated materials**

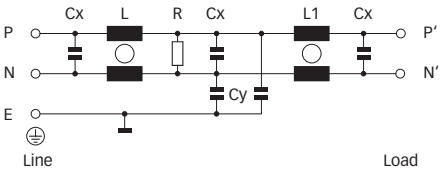
Approvals

RoHS 2002/95/EC

Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	2 to 10A @ 40°C max.
High potential test voltage:	P –> E 2000VAC for 2 sec
	P –> N 760VAC for 2 sec
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230V (Mil-HB-217F):	2,200,000 hours

Typical electrical schematic



Features and benefits

- FN 2350 filters are designed for easy and fast chassis mounting.
- FN 2350 filters have a perfect performance/size ratio.
- All filters provide a 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.
- Custom-specific versions on request.

Typical applications

- Electrical and electronical equipment
- Consumer goods
- Power supplies
- Office automation equipment
- Datacom equipment

Filter selection table

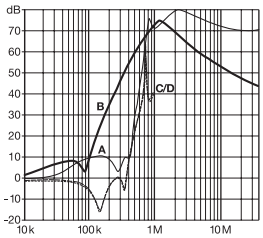
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance L	Inductance L1	Capacitance Cx	Capacitance Cy	Resistance R	Input/Output connections	Weight
	[A]	[mA]	[mH]	[mH]	[µF]	[nF]	[MΩ]		[g]
FN 2350Y-2-06	2 (2.25)	0.94	0.52	0.52	0.1	5.5	1	-06	115
FN 2350Y-3-06	3 (3.35)	0.94	1.7	1.7	0.1	5.5	1	-06	175
FN 2350Y-5-06	5 (5.6)	0.94	0.54	0.54	0.1	5.5	1	-06	175
FN 2350Y-10-06	10 (11.2)	0.94	0.54	0.54	0.1	5.5	1	-06	225

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

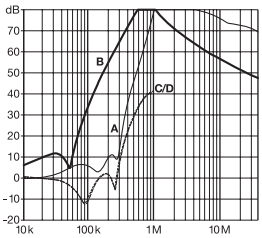
Typical filter attenuation

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

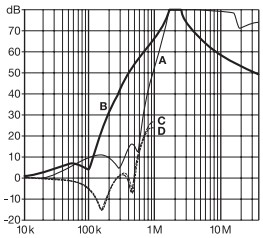
2A types



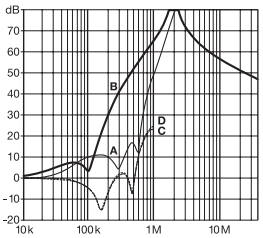
3A types



5A types

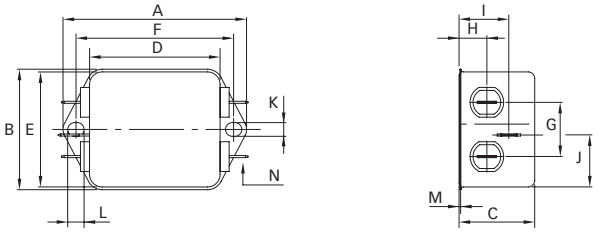


10A types

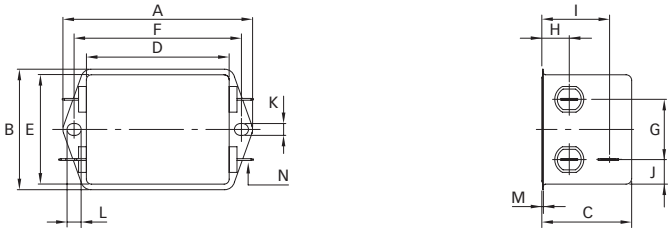


Mechanical data

2 to 5A types



10A types



Dimensions

	2A	3A	5A	10A	Tolerances
A	71	85	85	85	±0.5
B	46.6	54	54	54	±0.5
C	29.3	30.3	30.3	40.3	±0.5
D	50.5	64	64	64	±0.5
E	44.5	49.8	49.8	49.8	±0.5
F	61	75	75	75	±0.3
G	21	27	27	27	±0.2
H	10.8	12.3	12.3	12.3	±0.5
I	19.3	29.8	29.8	29.8	±0.5
J	20.1	11.4	11.4	11.4	±0.5
K	5.3	5.3	5.3	5.3	
L	6.3	6.3	6.3	6.3	
M	0.7	0.7	0.7	0.7	
N	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	

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