



Single-Phase Filters FN 343

Performance EMI Filter

SCHAFNER
energy efficiency and reliability



- Rated currents from 1 to 10A
- Dual-stage filter
- Compact housing
- Integrated earth line choke

Approvals



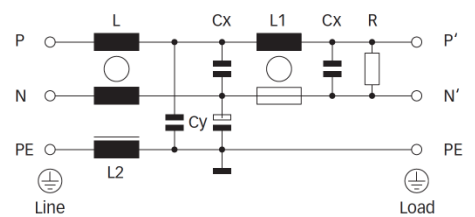
Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10 A @ 40°C max.
High potential test voltage:	P -> PE 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):	970,000 hours

Features and benefits

- FN 343 filters are designed for easy and fast chassis mounting.
- Increased attenuation performance based on dual-stage filter design and earth line choke.
- All FN 343 single-phase filters provide an excellent attenuation performance, based on chokes with high saturation and excellent thermal behavior.
- Faston connection.
- Integrated earth line choke.
- Compact design.
- Custom-specific versions on request.

Typical electrical schematic



Typical applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Power supplies
- Office automation equipment
- Datacom equipment
- Industrial equipment auxiliary supply

Filter selection table

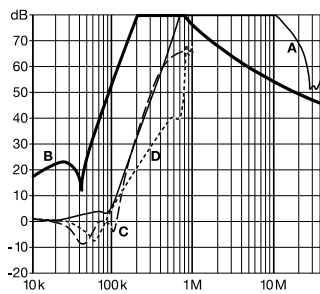
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance			Capacitance		Resistance	Input/Output connections	Weight
	[A]	[μA]	L	L1	L2	Cx	Cy	[MΩ]		
FN 343-1-05	1 (1.15)	340	5.6	10	0.4	100	2.2	1	-05	160
FN 343-3-05	3 (3.4)	340	1.1	2	0.4	100	2.2	1	-05	160
FN 343-6-05	6 (6.9)	340	0.43	0.77	0.4	100	2.2	1	-05	160
FN 343-10-05	10 (11.5)	340	0.27	0.66	0.4	100	2.2	1	-05	160

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

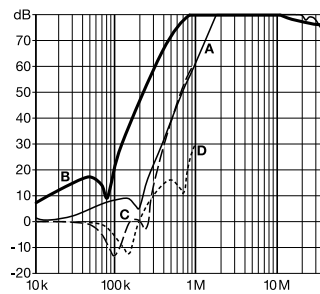
Typical filter attenuation

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

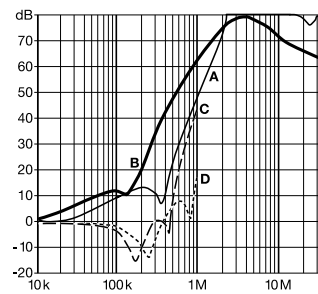
1A types



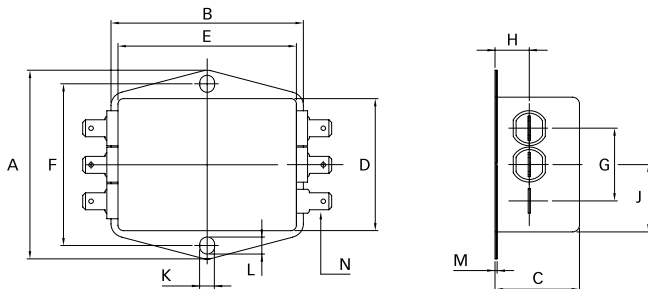
3A types



6 and 10A types



Mechanical data



Dimensions

1 to 10A		Tolerances	
A	70		±0.5
B	69		±0.5
C	30.3		±1
D	50		±1
E	64.8		±1
F	60		±0.2
G	27		±0.5
H	12.3		±0.5
J	25		±0.5
K	5.3		
L	6.3		
M	0.7		
N	6.3 x 0.8		

All dimensions in mm; 1 inch = 25.4mm

Tolerances according: ISO 2768-m / EN 22768-m

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