

## Performance EMI Filter



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

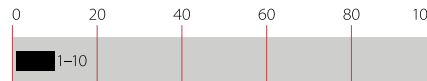


### Performance indicators

Attenuation performance



Rated current [A]



### Approvals



### 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

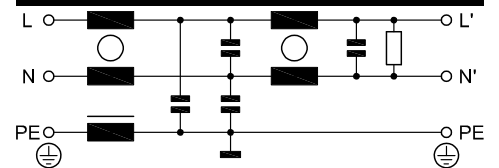
### Technical specifications

<b>Maximum continuous operating voltage</b>	250 VAC, 50/60 Hz
<b>Operating frequency</b>	DC to 400 Hz
<b>Rated currents</b>	1 to 10 A @ 40°C max.
<b>High potential test voltage</b>	P → PE 2000 VAC for 2 sec P → N 760 VAC for 2 sec
<b>Temperature range (operation and storage)</b>	-25°C to +100°C (25/100/21)
<b>Flammability corresponding to</b>	UL 94 V-2 or better
<b>Design corresponding to</b>	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
<b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>	970,000 hours


### Typical applications

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

### Typical electrical schematic



### Filter selection table

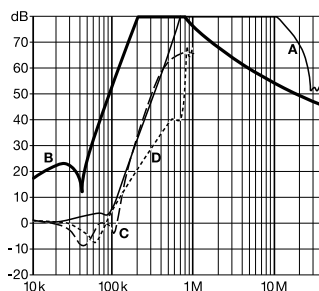
Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230 VAC/50 Hz [µA]	Inductance			Capacitance		Resistance R [MΩ]	Input/Output connections 	Weight [g]
			L [mH]	L1 [mH]	L2 [mH]	Cx [nF]	Cy [nF]			
<b>FN 343-1-05</b>	1 (1.15)	340	5.9	9.5	0.46	100	2.2	1	-05	160
<b>FN 343-3-05</b>	3 (3.4)	340	1.1	2	0.4	100	2.2	1	-05	160
<b>FN 343-6-05</b>	6 (6.9)	340	0.43	0.77	0.4	100	2.2	1	-05	160
<b>FN 343-10-05</b>	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.

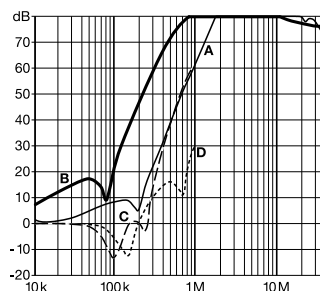
### Typical filter attenuation

Per CISPR 17; A=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

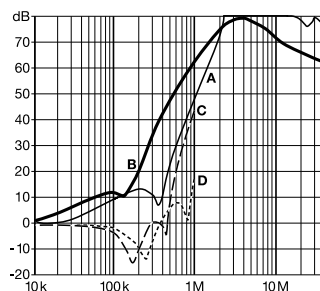
1 A types



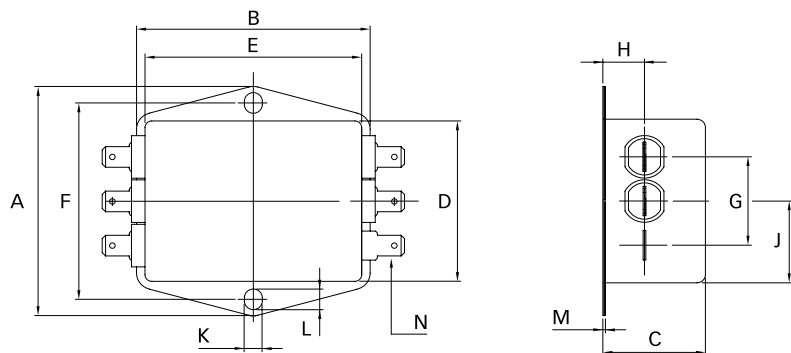
3 A types



6 and 10 A types



### Mechanical data



### Dimensions

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