

# Performance EMI Filter



- Rated currents from 1 to 10 A
- Compact housing
- Optional overvoltage protection (Z type)



### Performance indicators

Attenuation performance



## 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 P → N 250 VAC for 2 sec (Z types)
<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>Surge pulse protection (Z type)</b>	2 kV, IEC 61000-4-5
<b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>	710,000 hours

### Approvals



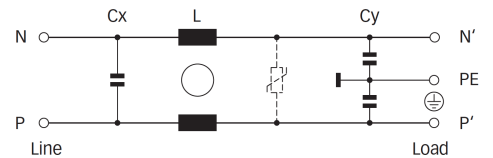
## Features and benefits

- FN 332 filters are designed for easy and fast chassis mounting
- FN 332 filters are also available with integrated surge pulse protection to safeguard sensitive electrical equipment
- All FN 332 single-phase filters provide a good attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Chokes with high saturation resistance and high inductivity
- Surge pulse protection
- Custom-specific versions on request


## Typical applications

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

### Typical electrical schematic



## Filter selection table

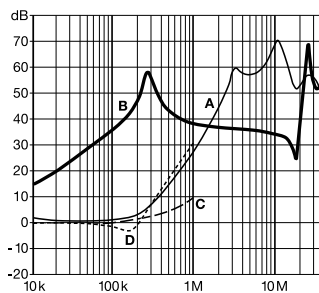
Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230 VAC/50 Hz [μA]	Inductance L [mH]	Capacitance		Surge current [A]	Energy absorption [J]	Input/Output connections 	Weight [g]
				Cx [nF]	Cy [nF]				
<b>FN 332-1-05</b>	1 (1.2)	340	10	15	2.2			-05	65
<b>FN 332-3-05</b>	3 (3.6)	340	2	15	2.2			-05	65
<b>FN 332-6-05</b>	6 (7.3)	340	0.8	15	2.2			-05	65
<b>FN 332-10 A-05</b>	10 (12)	340	0.5	15	2.2			-05	70
<b>FN 332 Z-1-05</b>	1 (1.2)	340	10	15	2.2	1200	26	-05	65
<b>FN 332 Z-3-05</b>	3 (3.6)	340	2	15	2.2	1200	26	-05	65
<b>FN 332 Z-6-05</b>	6 (7.3)	340	0.8	15	2.2	1200	26	-05	65
<b>FN 332 Z-10-05</b>	10 (12)	340	0.5	15	2.2	1200	26	-05	70

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

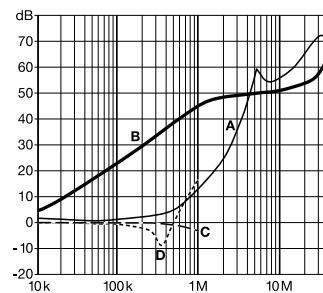
## Typical filter attenuation

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

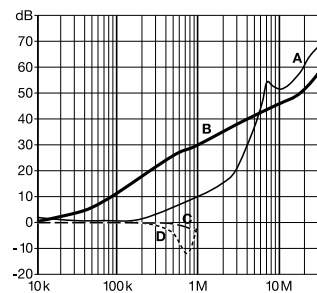
1 A types



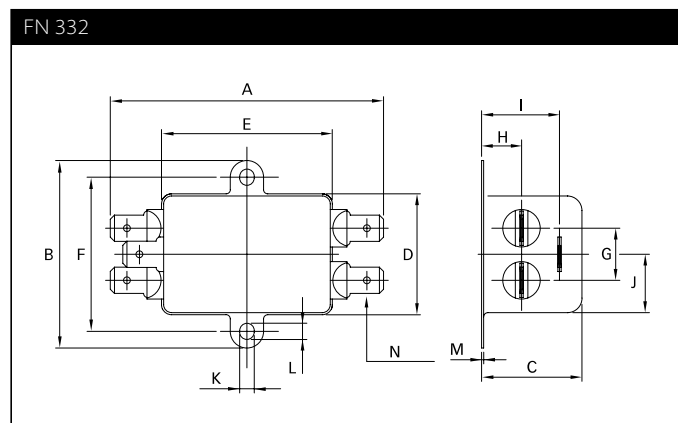
3 and 6 A types



10 A types



## Mechanical data



## Dimensions

	1 to 10 A types	Tolerances
<b>A</b>	65.6	±0.5
<b>B</b>	45	±0.5
<b>C</b>	24.8	±0.5
<b>D</b>	28	±0.5
<b>E</b>	40	±0.5
<b>F</b>	37	±0.4
<b>G</b>	12.5	±0.2
<b>H</b>	9.6	±0.2
<b>I</b>	18.7	±0.5
<b>J</b>	14	±0.5
<b>K</b>	3.5	
<b>L</b>	3.9	
<b>M</b>	0.5	
<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

Please visit [www.schaffner.com](http://www.schaffner.com) to find more details on filter connectors



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