

# High performance EMC/EMI filter

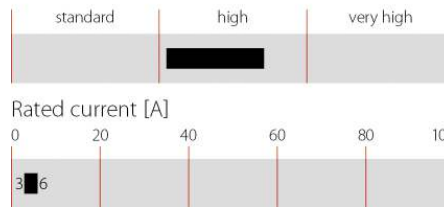


- | Rated currents from 3 to 6 A
- | Exceptional differential and common-mode attenuation
- | UL-rated materials
- | Optional medical versions (B type)



## Performance indicators

Attenuation performance



## 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>	3 to 6 A @ 40 °C max.
<b>High potential test voltage</b>	P → PE 2000 VAC for 2 sec P → N 1100 VDC 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/230V (Mil-HB-217F)</b>	2,400,000 hours

## Approvals



## Features and benefits

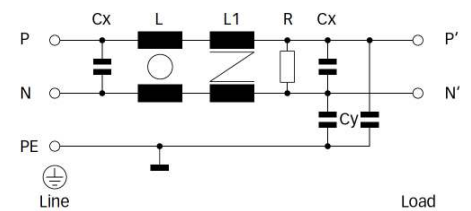
- | FN 2360 filters are designed for easy and fast chassis mounting
- | FN 2010 filters have a perfect performance/size ratio
- | All filters provide a very high differential and common-mode attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- | Faston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

## Typical applications

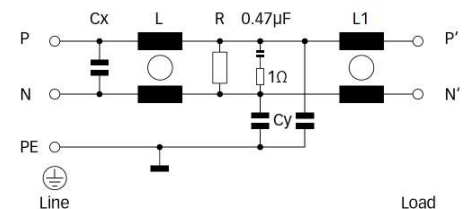
- | Electrical and electronic equipment
- | Consumer goods
- | Medical equipment
- | Power supplies
- | Office automation equipment
- | Datacom equipment

## Typical electrical schematic


### 3A types



### 6A types



### Filter selection table

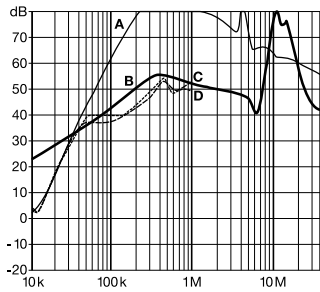
Filter	Rated current @ 40 °C (25 °C)	Leakage current* @ 230 VAC/50 Hz	Inductance		Capacitance		Resistance R	Input/Output connections	Weight
			L	L1	Cx	Cy			
	[A]	[mA]	[mH]	[mH]	[μF]	[nF]	[MΩ]		[g]
<b>FN 2360W-3-06</b>	3 (3,35)	0.52	32.3	0.4	0.47	3	1	-06	300
<b>FN 2360X-6-06</b>	6 (6.7)	0.7	48.2	1.7	1.5	4	1	-06	500
<b>FN 2360B-3-06</b>	3 (3,35)	0.004	32.3	0.4	0.47		1	-06	300
<b>FN 2360B-6-06</b>	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.

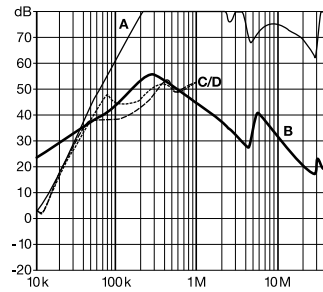
### Typical filter attenuation

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

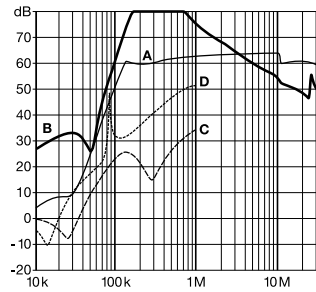
3 A types (W types)



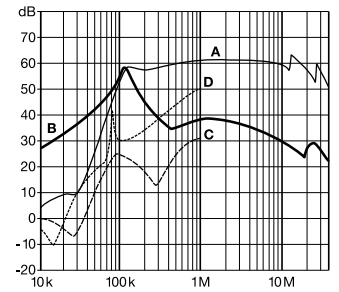
3 A types (B types)



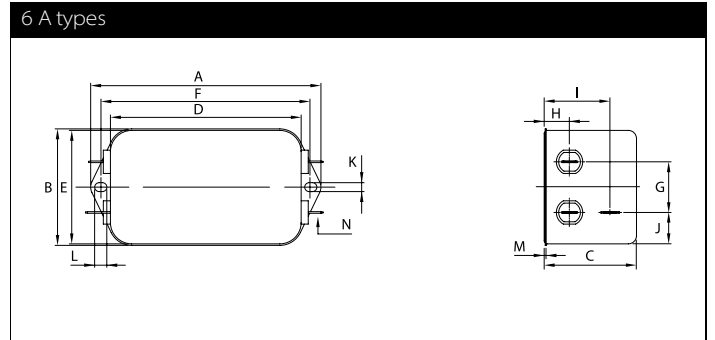
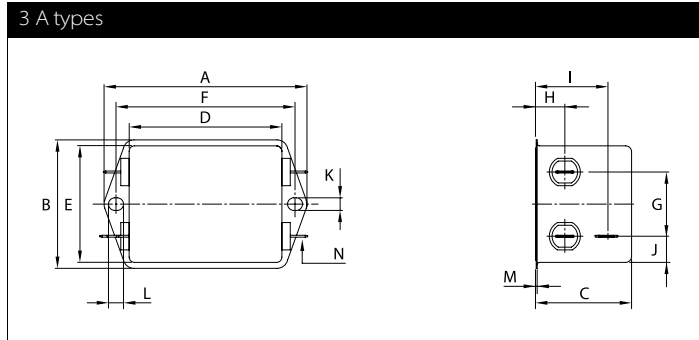
6 A types (X types)



6 A types (B types)



### Mechanical data



## Dimensions

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