

# 1-phase filters FN 2360

## High performance EMI filter

**SCHAFFNER**  
energy efficiency and reliability



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

### Approvals

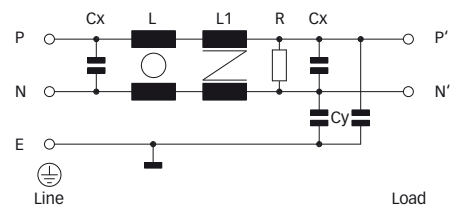


### Technical specifications

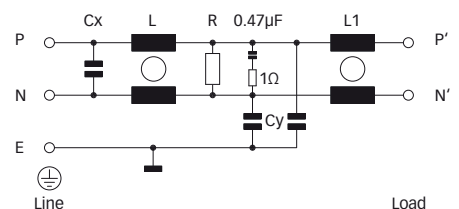
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	3 to 6A @ 40°C max.
High potential test voltage:	P → E 2000VAC for 2 sec P → N 1100VDC for 2 sec
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	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):	2,400,000 hours

### Typical electrical schematic

#### 3A types



#### 6A types



### Features and benefits

- FN 2560 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.
- Fast 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

**Filter selection table**

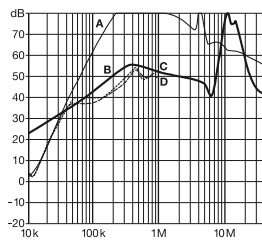
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance		Capacitance		Resistance	Input/Output connections	Weight [g]
	[A]	[mA]	L [mH]	L1 [mH]	Cx [µF]	Cy [nF]	R [MΩ]		
FN 2360W-3-06	3 (3.35)	0.52	32.3	0.4	0.47	3	1	-06	300
FN 2360X-6-06	6 (6.7)	0.7	48.2	1.7	1.5	4	1	-06	500
FN 2360B-3-06	3 (3.35)	0.004	32.3	0.4	0.47		1	-06	300
FN 2360B-6-06	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.

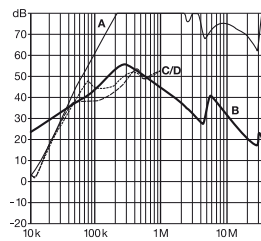
**Typical filter attenuation**

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

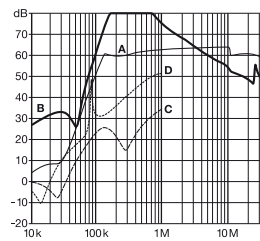
3A types (W types)



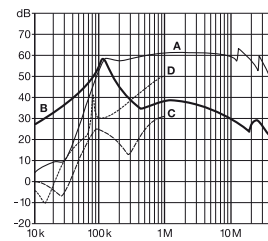
3A types (B types)



6A types (X types)

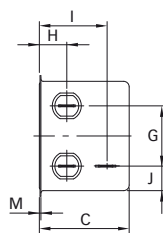
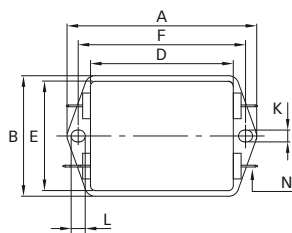


6A types (B types)

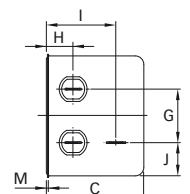
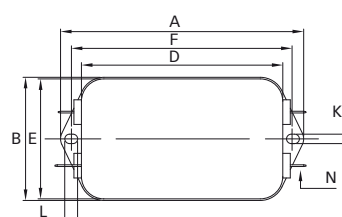


**Mechanical data**

3A types



6A types



**Dimensions**

	3A	6A	Tolerances
A	85 ±0.5	113.5 ±1	
B	54 ±0.5	57.5 ±1	
C	40.3 ±0.5	45.5 ±1	
D	64 ±0.5	94 ±1	
E	49.8	56	±0.5
F	75	103.5	±0.3
G	27	25	±0.2
H	12.3	12.4	±0.5
I	29.8	32.4	±0.5
J	11.4	15.5	±0.5
K	5.3	4.4	
L	6.3	6	
M	0.7	1	
N	6.3 x 0.8	6.3 x 0.8	

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