IEC inlet filters
FN 9260

General purpose power entry module with fuses

schaffner
energy efficiency and reliability

- **Rated currents up to 10A**
- **For one or two fuses**
- **Optional medical versions (B type) according to IEC/EN 60601-1**
- **Snap-in versions (S type)**

Approvals

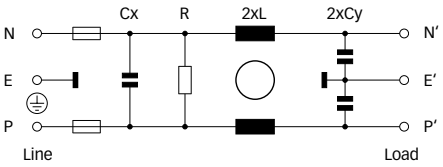
RoHS 2002/95/EC

Technical specifications

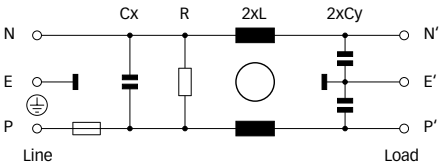
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 40°C max.
High potential test voltage:	P –> E 2000VAC for 2 sec (standard types)
	P –> E 2500VAC for 2 sec (B types)
	P –> N 760VAC for 2 sec (standard types)
	P –> N 1700VDC for 2 sec (B types)
Protection category:	IP40 according to IEC 60529
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
Flammability corresponding to:	UL 94V-2 or better
MTBF @ 40°C/230V (Mil-HB-217F):	2,200,000 hours
Fuse holder:	1 or 2 fuses (Ø5 x 20mm)

Typical electrical schematic

FN 9260 (B types without Y-capacitors)



FN 261



The FN 9260 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and fuses in a small form factor. Choosing FN 9260 product line brings you rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings, output connections, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

Features and benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- B types comply with the requirements of IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing.
- Versions up to 10A are available with fuse holder for one or two fuses.
- Custom-specific versions are available on request.

Typical applications

- Portable electrical and electronic equipment
- Medical equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

Filter selection table

Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230VAC/50Hz [µA]	Inductance L [mH]	Capacitance Cx [µF]	Capacitance Cy [nF]	Resistance R [kΩ]	Input/Output connections	Fuses [Qty]	Weight [g]
FN 9260x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	2	55
FN 9260x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	2	55
FN 9260x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	2	55
FN 9260x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	2	55
FN 9260x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	2	55
FN 9260xB-1-06-y	1 (1.2)	2	5.3	0.1		1000	-06	2	55
FN 9260xB-2-06-y	2 (2.3)	2	2.7	0.1		1000	-06	2	55
FN 9260xB-4-06-y	4 (4.6)	2	1.0	0.1		1000	-06	2	55
FN 9260xB-6-06-y	6 (6.9)	2	0.3	0.1		1000	-06	2	55
FN 9260xB-10-06-y	10 (11.5)	2	0.2	0.1		1000	-06	2	55
FN 261x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	1	55
FN 261x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	1	55
FN 261x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	1	55
FN 261x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	1	55
FN 261x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	1	55

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

Product selector

FN 9260xx-yy-yy-y

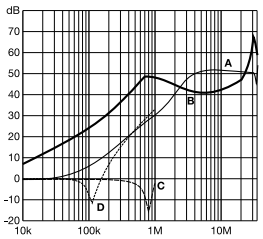
- Snap-in range for S version only
  - 10: Snap-in range 0.6 to 1.5mm
  - 20: Snap-in range 1.6 to 2.5mm
  - 30: Snap-in range 2.6 to 3.5mm
- 06: Faston 6.3 x 0.8mm (spade/soldering)
- 1 to 10: Rated current
- Blank: Standard version
  - B: Medical version (wihtout Y-capacitor)
- Blank: Standard housing with mounting flanges
  - S: Snap-in version, snapper on vertical side

For example: FN 9260-1-06-10, FN 9260SB-10-06-20, FN 261S-6-06-30

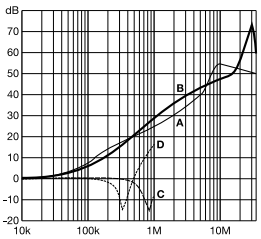
Typical filter attenuation

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

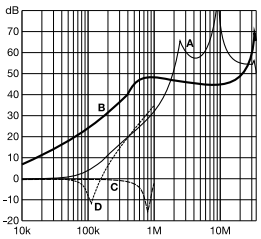
FN 9260: 1 to 4A types



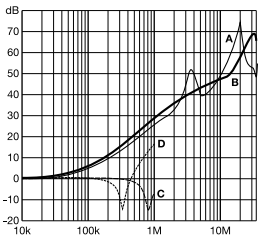
FN 9260: 6 and 10A types



FN 261: 1 to 4A types

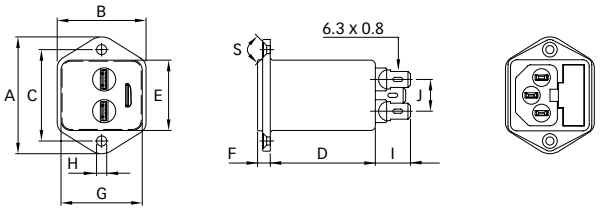


FN 261: 6 and 10A types

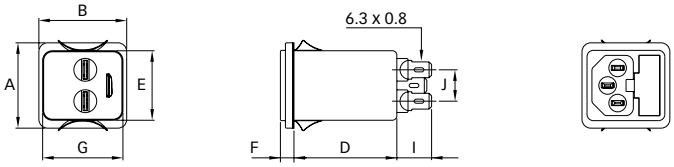


Mechanical data

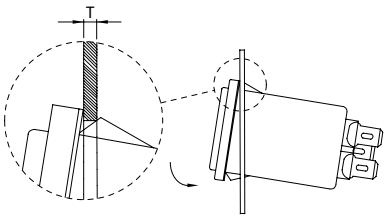
FN 9260 / FN 261



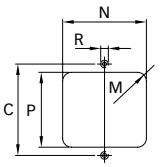
FN 9260S / FN 261S



Installation



Panel cut out



Dimensions

	FN 9260 FN 261	FN 9260S FN 261S	Tolerances
A	46	34	±0.3
B	35	35	±0.3
C	36		±0.3
D	41	41	±0.3
E	27.8	27.8	+0.3/-0
F	5.5	5.5	±0.3
G	32	32	+0.3/-0
H	Ø3.2		±0.1
I	13.8	13.8	
J	12.5	12.5	±0.3
M	R ≤ 3.5	R ≤ 3.5	
N	33	33	+0.3/-0
P	29	29.5	±0.3
R	M3		
S	90°		
T*		0.6 - 1.5	
T*		1.6 - 2.5	
T*		2.6 - 3.5	

* For selecting the panel thickness, please refer to the filter selector table.

All dimensions in mm; 1 inch = 25.4mm

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