# **General Purpose Power Entry Module with Fuses**

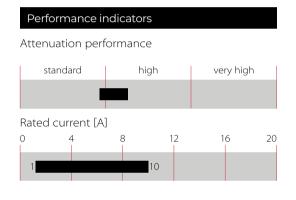


	Rated	currents	up	to	10 A	
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- Integrated single/dual fuse holder
  Optional reduced leakage current versions (A/B type)
- Complies with IEC/EN 60601-1
- Snap-in versions (S type)
- Good attenuation performance

NEW: Wire leads option





# **Technical Specifications**

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Operating frequency	DC to 400 Hz
Rated currents	1 to 10 A @ 40°C max
High potential test voltage	P -> PE 2000 VAC for 2 sec (standard types) P -> PE 2500 VAC for 2 sec (B types) P -> N 760 VAC for 2 sec
Protection category	IP 40 according to IEC 60529
Temperature range (operation and storage)	-25℃ to +85℃ (25/85/21)
Design corresponding to	UL 60939-3, CSA Std C22.2 No. 8-13, IEC/EN 60939-3, GB/T15287, GB/T15288
Flammability corresponding to	Inlet plastic: UL 94 V-0 Fuseholder plastic: UL 94 V-0
MTBF @ 40°C/230 V (Mil-HB-217F)	2,200,000 hours
Fuse holder	1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6)

#### Approvals & Compliances





The FN9260 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and fuses in a small form factor. Choosing FN9260 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
- FN9260 B versions comply with the requirements of 1MOP acc. to IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing
- Versions up to 10 A are available with fuse holder for one or two fuses
- Custom-specific versions are available on request

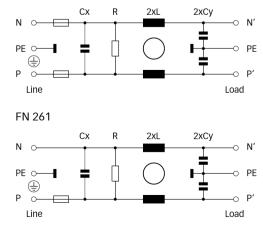
# **Typical Applications**

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

#### Typical electrical schematic

#### FN 9260 (B types without Y-capacitors)



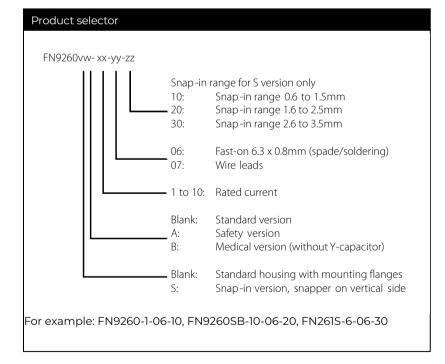
# **Filter Selection Table**

Filter	Buy	Rated current @ 40°C (25°C)	Leakage current* @ 250 VAC/50 Hz	Inductance**	Capac Cx	itance** Cy	Resistance** R		Output ections	Fuses***	Weight
		e 10 C (15 C)	(@ 120 VAC/60 Hz)	-	CA	-,					
								6	Ł		
		[A]	[mA]	[mH]	[μF]	[nF]	[kΩ]			[Qty]	[g]
FN9260v-1-yy-zz	¥	1 (1.2)	0.31 (0.18)	5.3	0.1	2.2	1000	-06	-07	2	55
FN9260v-2-yy-zz	¥	2 (2.3)	0.31 (0.18)	2.7	0.1	2.2	1000	-06	-07	2	55
FN9260v-4-yy-zz	¥	4 (4.6)	0.31 (0.18)	1.0	0.1	2.2	1000	-06	-07	2	55
FN9260v-6-yy-zz	¥	6 (6.9)	0.31 (0.18)	0.3	0.1	2.2	1000	-06	-07	2	55
FN9260v-10-yy-zz	¥	10 (11.5)	0.31 (0.18)	0.2	0.1	2.2	1000	-06	-07	2	55
FN9260vA1-1-yy-zz	¥	1 (1.2)	0.03 (0.02)	5.3	0.1	0.22	1000	-06	-07	2	55
FN9260vA-2-yy-zz	¥	2 (2.3)	0.07 (0.04)	2.7	0.1	0.47	1000	-06	-07	2	55
FN9260vA-4-yy-zz	¥	4 (4.6)	0.07 (0.04)	1.0	0.1	0.47	1000	-06	-07	2	55
FN9260vA-6-yy-zz	¥	6 (6.9)	0.07 (0.04)	0.3	0.1	0.47	1000	-06	-07	2	55
FN9260vA-10-yy-zz	¥	10 (11.5)	0.07 (0.04)	0.2	0.1	0.47	1000	-06	-07	2	55
FN9260vB-1-yy-zz	¥	1 (1.2)	0.00	5.3	0.1		1000	-06	-07	2	55
FN9260vB-2-yy-zz	¥	2 (2.3)	0.00	2.7	0.1		1000	-06	-07	2	55
FN9260vB-4-yy-zz	¥	4 (4.6)	0.00	1.0	0.1		1000	-06	-07	2	55
FN9260vB-6-yy-zz	¥	6 (6.9)	0.00	0.3	0.1		1000	-06	-07	2	55
FN9260vB-10-yy-zz	¥	10 (11.5)	0.00	0.2	0.1		1000	-06	-07	2	55
FN261v-1-06-zz	¥	1 (1.2)	0.31 (0.18)	5.3	0.1	2.2	1000	-06		1	55
FN261v-2-06-zz	¥	2 (2.3)	0.31 (0.18)	2.7	0.1	2.2	1000	-06		1	55
FN261v-4-06-zz	¥	4 (4.6)	0.31 (0.18)	1.0	0.1	2.2	1000	-06		1	55
FN261v-6-06-zz	¥	6 (6.9)	0.31 (0.18)	0.3	0.1	2.2	1000	-06		1	55
FN261v-10-06-zz	¥	10 (11.5)	0.31 (0.18)	0.2	0.1	2.2	1000	-06		1	55

\* Leakage current under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

\*\* Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%

\*\*\* Fuses are not included in the filter and need to be selected according to application



# **Typical Filter Attenuation**

Per CISPR 17; DM (differential mode)=50  $\Omega$ /50  $\Omega$  sym; CM (common mode)=50  $\Omega$ /50  $\Omega$  asym

FN261/ FN9260: 1 A type

FN261/ FN9260: 2 A type

FN261/ FN9260: 4 A type

100

1M

10M Hz

dB

70

60

50

40

30

20

10

FN261/ FN9260: 6 and 10 A types

70

60

50

40

30

20

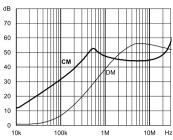
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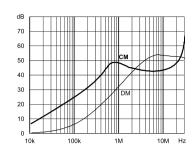
. 10k 100k

1M

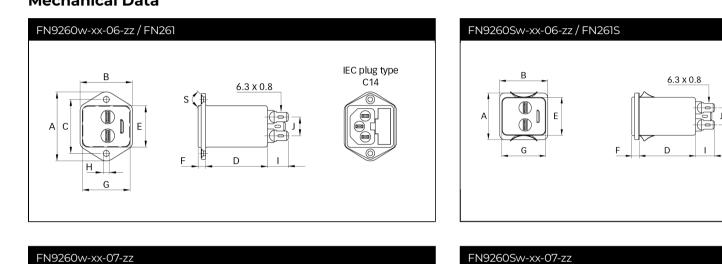
IEC plug type C14

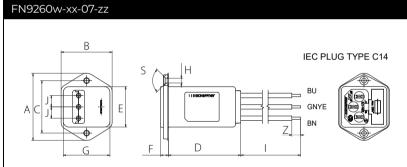
10M Hz

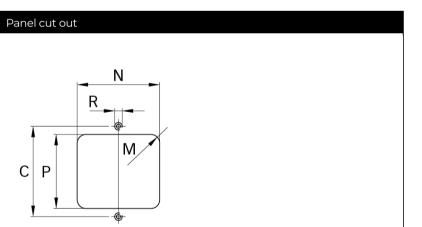


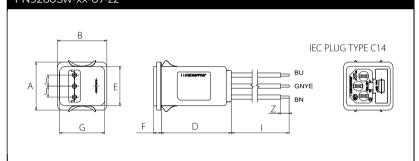


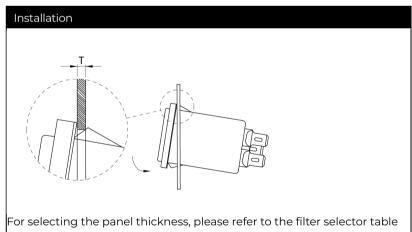
# **Mechanical Data**











### Dimensions

	FN9260vw-xx-06-zz FN261	FN9260vw-xx-07-zz	FN9260Sw-xx-06-zz FN261	FN9260Sw-xx-07-zz	
	Fast-On	Wire leads**	Fast-On	Wire leads**	Tolerances
Α	46	46	34	34	±0.3
в	35	35	35	35	±0.3
С	36	36			±0.3
D	41	50	41	50	
E	27.8	27.8	27.8	27.8	+0.3/-0
F	5.5	5.5	5.5	5.5	±0.3
G	32	32	32	32	+0.3/-0
н	Ø3.2	Ø3.2			±0.1
I.	14±0.5	160±5**	14±0.5	160±5**	
J	12.5	7.8	12.5	7.8	
м	R ≤3.5	R ≤3.5	R ≤3.5	R ≤3.5	
Ν	33 +0.3/-0	33 +0.3/-0	33 +0.2/-0	33 +0.2/-0	
Р	29 ±0.3	29 ±0.3	29.5 ±0.2	29.5 ±0.2	
R*	MЗ	M3			
s	90°	90°			
z		б		б	

\*Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

\*\*1 A - 6 A - AWG18; 10 A - AWG16

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

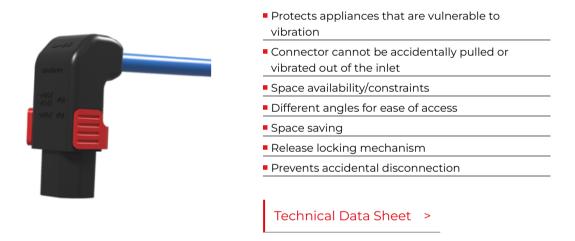
Please visit <u>www.schaffner.com</u> to find more details on filter connections.

# Accessories

### Power Cord with angled Locking System C13



### IL 13P IEC C13 Rewireable Angled Connectors with Locking System



# IL 13P IEC C13 Rewireable Connectors with Locking System



The locking system has a tensile force of typical 300N. It is recommended to use it with flange mount filters. For details refer to our Application Note "Using IEC Lock Power Cords with IEC Inlets and Filters".

Schaffner power connector with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit .for all electronic equipments and devices



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