

High Performance Power Entry Module with Fuses

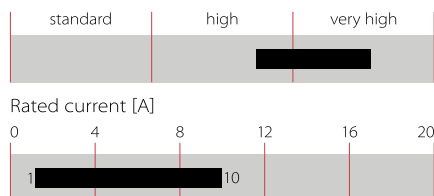


- Rated currents up to 10 A
- Integrated dual fuse holder
- Optional reduced leakage current versions (A/B type)
- Complies with IEC/EN 60601-1
- Snap-in versions (S type)
- High attenuation performance



Performance indicators

Attenuation performance



Approvals



The FN 9262 power entry module combines an IEC inlet, mains filter with very high filter attenuation based on nano crystalline material selection and fuses in a small form factor. Choosing FN 9262 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, mounting possibilities and filters for medical applications (acc. to IEC 60601-1 with low leakage current and high performance) 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
- FN 9262 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 two fuses
- Custom-specific versions are available on request

Technical specifications

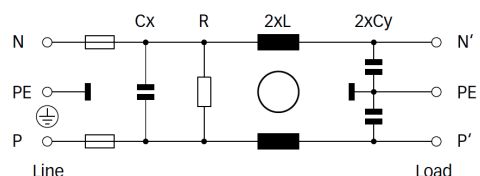
Operating voltage	250 VAC, 50/60 Hz
Operating frequency	DC to 400 Hz
Rated currents	1 to 10 A @ 40°C max.
High potential test voltage	P → PE 2000 VAC for 2 sec (standard types) P → PE 2500 VAC for 2 sec (B types) P → N 760 VAC for 2 sec
Protection category	IP 40 according to IEC 60529
Temperature range (operation and storage)	-25°C to +85°C (25/85/21)
Design corresponding to	UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288
Flammability corresponding to	Inlet plastic: UL 94 V-0 Fuseholder plastic: UL 94 V-0
MTBF @ Rated amb. Temp./Voltage (Mil-HB-217F)	2,100,000 hours
Fuse holder	2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6)
Power acceptance @ amb. temperature	

Typical applications


- Medical electrical devices (MD) and In-Vitro Diagnostic (IVD) medical devices
- Portable electrical and electronic 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 9262 (B types without Y-capacitors)



Filter selection table

	Rated current @ 40°C [A]	Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz) [mA]	Inductance** L [mH]	Capacitance**		Resistor** R [kΩ]	Input/Output connections 	Fuses*** [Qty]	Weight [g]
				Cx [μF]	Cy [nF]				
FN 9262-1-06	1	0.31 (0.18)	40	0.22	2.2	1000	-06	2	55
FN 9262-2-06	2	0.31 (0.18)	20	0.22	2.2	1000	-06	2	55
FN 9262-4-06	4	0.31 (0.18)	7	0.22	2.2	1000	-06	2	55
FN 9262-6-06	6	0.31 (0.18)	3	0.22	2.2	1000	-06	2	55
FN 9262-10-06	10	0.31 (0.18)	1.15	0.22	2.2	1000	-06	2	55
FN 9262A-1-06	1	0.07 (0.04)	40	0.22	0.47	1000	-06	2	55
FN 9262A-2-06	2	0.07 (0.04)	20	0.22	0.47	1000	-06	2	55
FN 9262A-4-06	4	0.07 (0.04)	7	0.22	0.47	1000	-06	2	55
FN 9262A-6-06	6	0.07 (0.04)	3	0.22	0.47	1000	-06	2	55
FN 9262A-10-06	10	0.07 (0.04)	1.15	0.22	0.47	1000	-06	2	55
FN 9262B-1-06	1	0.00	40	0.22		1000	-06	2	55
FN 9262B-2-06	2	0.00	20	0.22		1000	-06	2	55
FN 9262B-4-06	4	0.00	7	0.22		1000	-06	2	55
FN 9262B-6-06	6	0.00	3	0.22		1000	-06	2	55
FN9262B-10-06	10	0.00	1.15	0.22		1000	-06	2	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

Product selector

FN 9262xx-yy-yy-y

Snap-in range for S version only

Blank: 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

A: Safety version

B: Medical version (without Y-capacitor)

Blank: Standard housing with mounting flanges

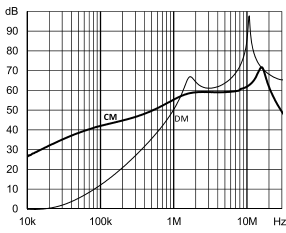
S: Snap-in version, snapper on vertical side

For example: FN 9262-1-06, FN 9262 SB-10-06

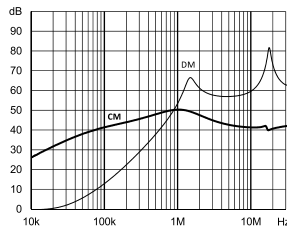
Typical filter attenuation

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

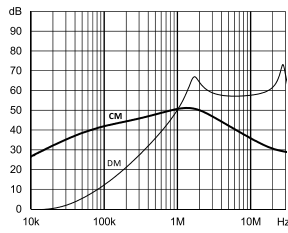
FN 9262 Standard Type 1 A



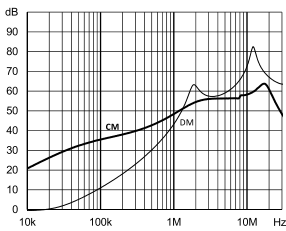
FN 9262 A Type 1 A



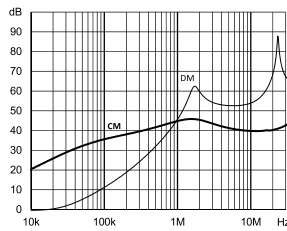
FN 9262 B Type 1 A



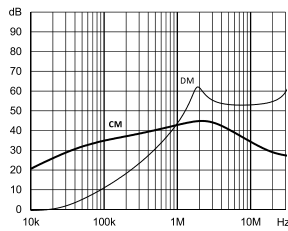
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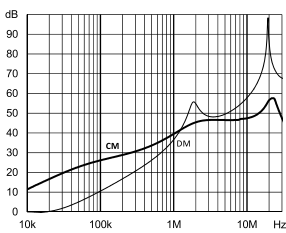
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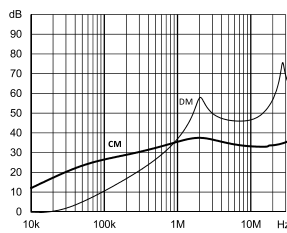
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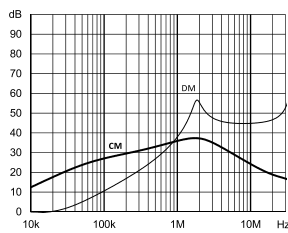
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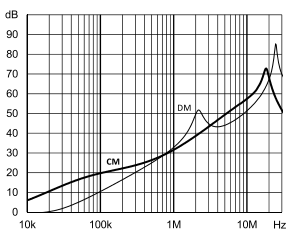
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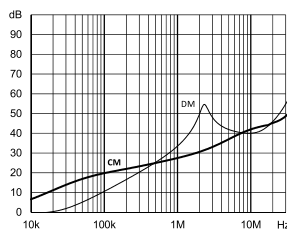
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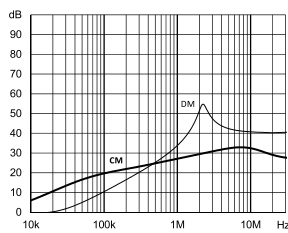
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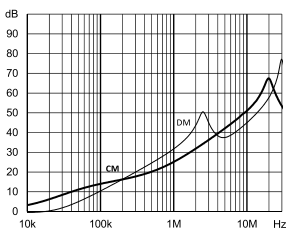
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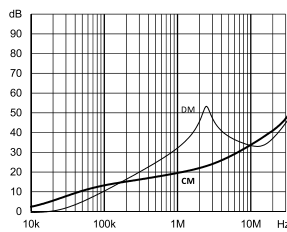
FN 9262 B Type 6 A



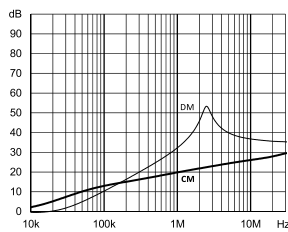
FN 9262 Standard Type 10 A



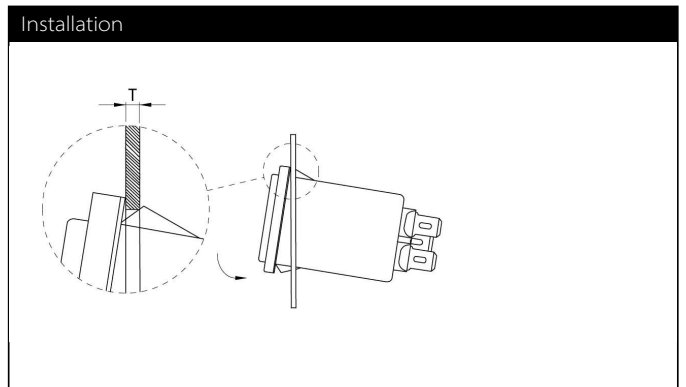
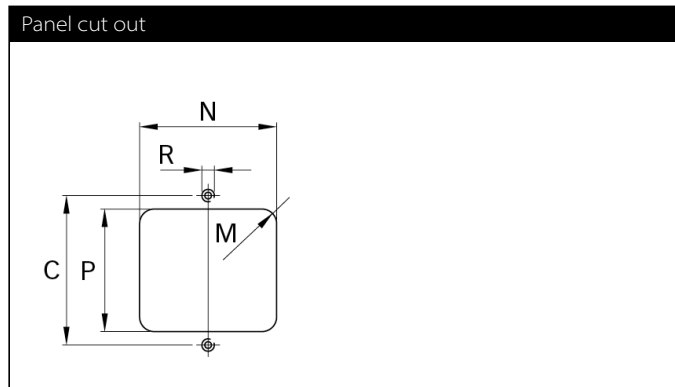
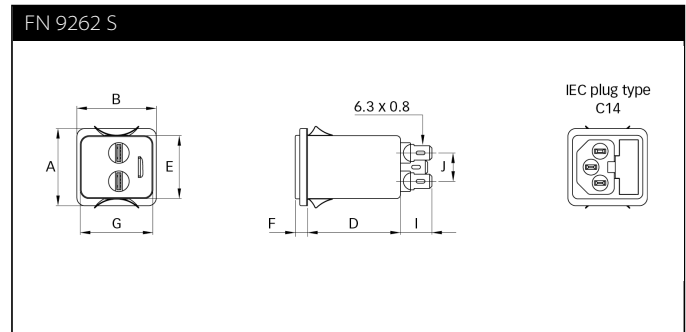
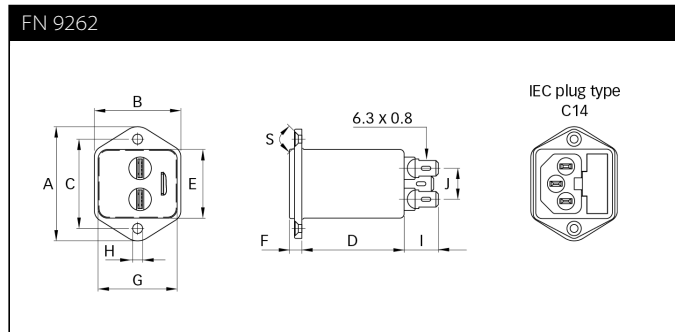
FN 9262 A Type 10 A



FN 9262 B Type 10 A



Mechanical data



Dimensions

	FN 9262	FN 9262 S	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	14	14	±0.5
J	12.5	12.5	±0.3
M	R ≤ 3.5	R ≤ 3.5	
N	33 +0.3/-0	33 +0.2/-0	
P	29 ±0.3	29.5 ±0.2	
R*	M3		
S	90°		
T**		0.6-1.5	
T**		1.6-2.5	
T**		2.6-3.5	

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

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

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

Please visit www.schaffner.com to find more details on filter connections.



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