

High Performance Power Entry Module with Fuses



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



Performance indicators

Attenuation performance



Rated current [A]



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
- B types comply with the requirements of IEC/EN 60601-1 (1MOPP) 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

Typical applications

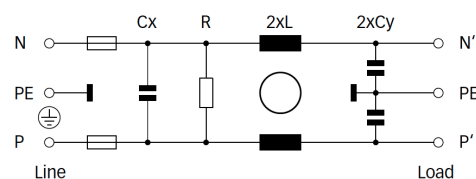
- Medical electrical devices (MD) and In-Vitro Diagnostic (IVD) medical devices
- Portable electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

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)

Typical electrical schematic

FN 9262 (B types without Y-capacitors)



Filter selection table

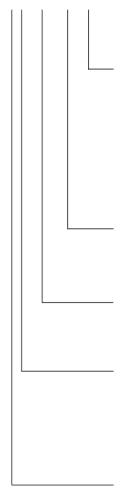
	Rated current @ 40°C	Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)	Inductance L	Capacitance		Resistor R	Input/Output connections	Fuses**	Weight
				Cx	Cy				
	[A]	[mA]	[mH]	[μF]	[nF]	[kΩ]		[Qty]	[g]
FN 9262-1-06	1	0.31 (0.18)	40	0.22	2.2	1000	-06	2	55
FN 9262-2-06	2	0.31 (0.18)	20	0.22	2.2	1000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

** 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

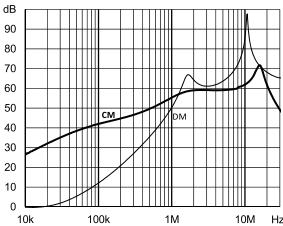
S: Snap-in version, snapper on vertical side

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

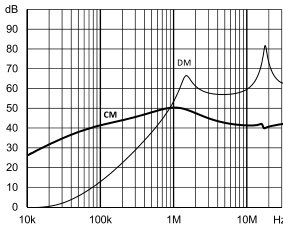
Typical filter attenuation

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

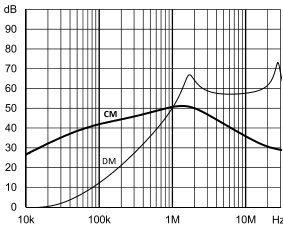
FN 9262 Standard Type 1 A



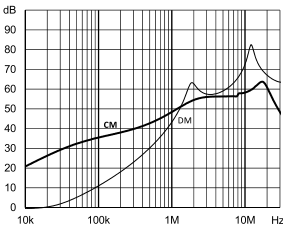
FN 9262 A Type 1 A



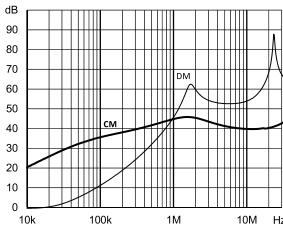
FN 9262 B Type 1 A



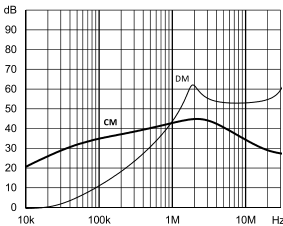
FN 9262 Standard Type 2 A



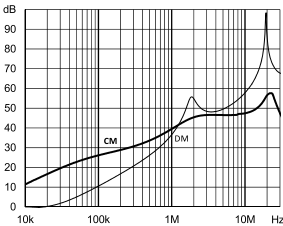
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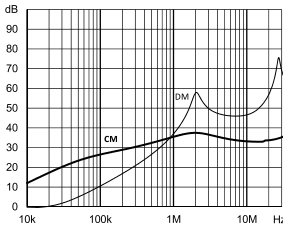
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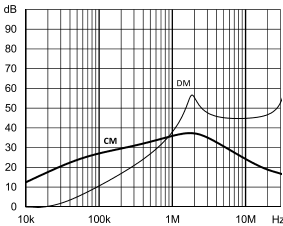
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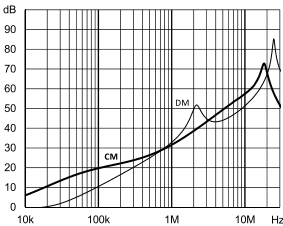
FN 9262 A Type 4 A



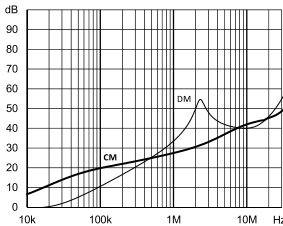
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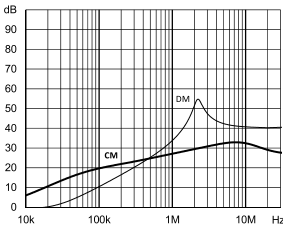
FN 9262 Standard Type 6 A



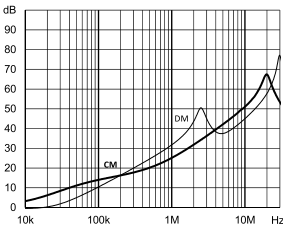
FN 9262 A Type 6 A



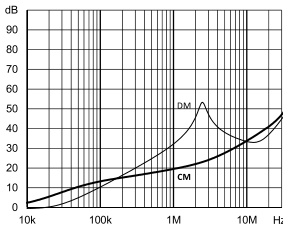
FN 9262 B Type 6 A



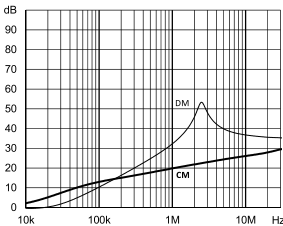
FN 9262 Standard Type 10 A



FN 9262 A Type 10 A

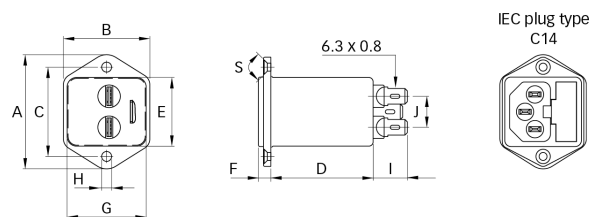


FN 9262 B Type 10 A

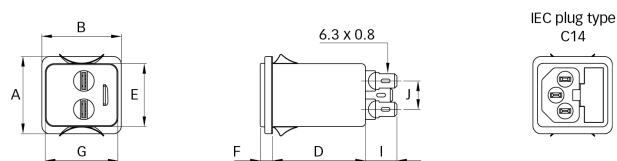


Mechanical data

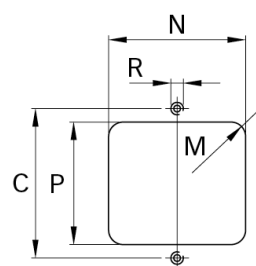
FN 9262



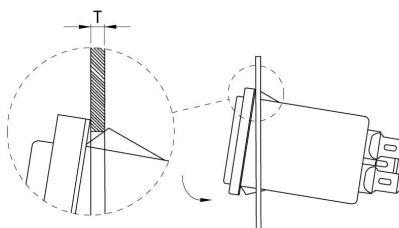
FN 9262 S



Panel cut out



Installation



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: ISO 2768-m/EN 22768-m

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



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