

# 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



# **Technical specifications**

**Operating voltage** 

**Operating frequency** 

**Rated currents** 

High potential test voltage

# **Protection category**

Temperature range (operation and storage)

Design corresponding to

Flammability corresponding to

MTBF @ Rated amb. Temp./Voltage (Mil-

HB-217F)

Fuse holder

250 VAC, 50/60 Hz

DC to 400 Hz

1 to 10 A @ 40°C max.

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

IP 40 according to IEC 60529

-25°C to +85°C (25/85/21)

UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288

Inlet plastic: UL 94 V-0 Fuseholder plastic: UL 94 V-0

2,100,000 hours

2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6)

# **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**

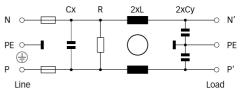
- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- B types comply with the requirements of IEC/EN 60601-1 (1MOPP) for creepage and clearance, leakage current and high potential testing
- Versions up to 10 A are available with 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
- I Portable electrical and electronic equipment
- I Small to medium-sized machines and household equipment
- I Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

#### Typical electrical schematic

FN 9262 (B types without Y-capacitors)



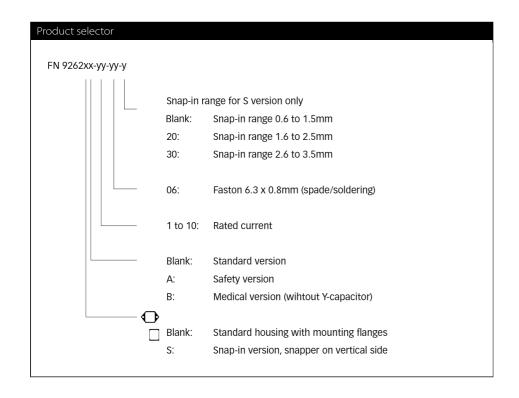
2 EMC/EMI Products Datasheets 06 Jun 2019

# Filter selection table

	Rated current	Leakage current*	Inductance	Cap	acitance	Resistor	Input/Output	Fuses**	Weight
	@ 40°C	@ 250 VAC/50 Hz	L	Cx	Су	R	connections	i uses	Weight
	@ <del>40</del> C	(@ 120 VAC/60 Hz)	-	_ CA	Cy		connections		
		(@ 120 VAC/60 HZ)							
	[A]	[mA]	[mH]	[μ <b>F</b> ]	[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

<sup>\*</sup> 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.

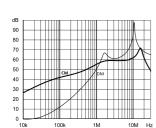
 $<sup>\</sup>ensuremath{^{**}}$  Fuses are not included in the filter and need to be selected according to application

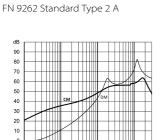


# **Typical filter attenuation**

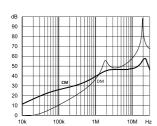
Per CISPR 17; DM (differential mode)=50  $\Omega$ /50  $\Omega$  sym; CM (common mode)=50  $\Omega$ /50  $\Omega$  asym

FN 9262 Standard Type 1 A

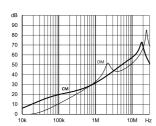




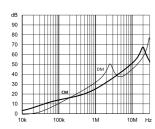
FN 9262 Standard Type 4 A



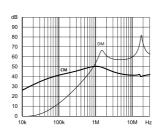
FN 9262 Standard Type 6 A



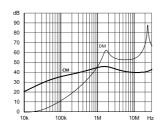
FN 9262 Standard Type 10 A



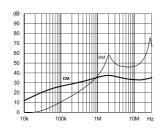
FN 9262 A Type 1 A



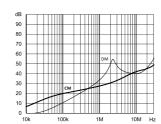
FN 9262 A Type 2 A



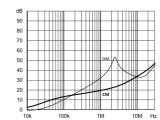
FN 9262 A Type 4 A



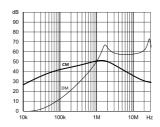
FN 9262 A Type 6 A



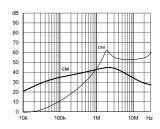
FN 9262 A Type 10 A



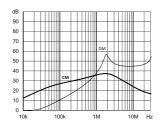
FN 9262 B Type 1 A



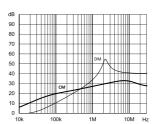
FN 9262 B Type 2 A



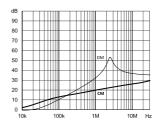
FN 9262 B Type 4 A



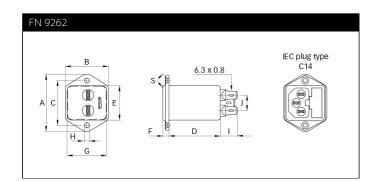
FN 9262 B Type 6 A

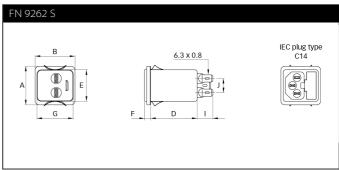


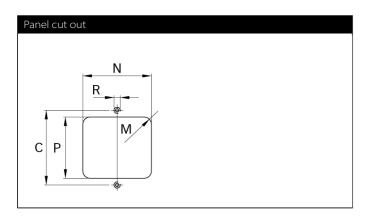
FN 9262 B Type 10 A

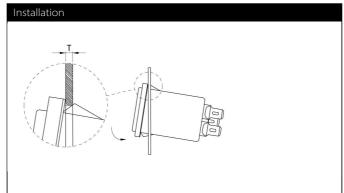


# **Mechanical data**









# **Dimensions**

	FN 9262	FN 9262 S	Tolerances
Α	46	34	±0.3
В	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
Н	Ø3.2		±0.1
1	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	

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

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.

<sup>\*\*</sup> For selecting the panel thickness, please refer to the filter selector table.



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