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
- NEW: Wire leads option

The FN9262 power entry module combines an IEC inlet, mains filter with very high filter attenuation based on nanocrystalline material selection and fuses in a small form factor. Choosing FN9262 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
- FN9262B 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>250 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>Operating frequency</td>
<td>DC to 400 Hz</td>
</tr>
<tr>
<td>Rated currents</td>
<td>1 to 10 A @ 40°C max.</td>
</tr>
<tr>
<td>High potential test voltage</td>
<td>P -&gt; PE 2000 VAC for 2 sec (standard types)</td>
</tr>
<tr>
<td></td>
<td>P -&gt; PE 2500 VAC for 2 sec (B types)</td>
</tr>
<tr>
<td></td>
<td>P -&gt; N 760 VAC for 2 sec</td>
</tr>
<tr>
<td>Protection category</td>
<td>IP 40 according to IEC 60529</td>
</tr>
<tr>
<td>Temperature range (operation and storage)</td>
<td>-25°C to +85°C (25/85/21)</td>
</tr>
<tr>
<td>Design corresponding to</td>
<td>UL 60939-3, CSA Std C22.2 No. 8-13, IEC/EN 60939-3, GB/T 15287, GB/T 15288</td>
</tr>
<tr>
<td>Flammability corresponding to</td>
<td>Inlet plastic: UL 94 V-0</td>
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<tr>
<td></td>
<td>Fuseholder plastic: UL 94 V-0</td>
</tr>
<tr>
<td>MTBF @ Rated amb. Temp./Voltage (Mil-HB-217F)</td>
<td>2,100,000 hours</td>
</tr>
<tr>
<td>Fuse holder</td>
<td>2 fuses (Ø5 x 20 mm) (certified to IEC 60127-4)</td>
</tr>
</tbody>
</table>

Approvals & Compliances

- UL
- UL 94 V-0
- CE
- ROHS
- CSA
- UKCA
- Fukushima
- TUV

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

![Typical electrical schematic](image-url)
## Filter selection table

<table>
<thead>
<tr>
<th>Filter Code</th>
<th>Rated current @ 40°C [A]</th>
<th>Leakage current* @ 250 VAC/50 Hz [mA]</th>
<th>Inductance** [mH]</th>
<th>Capacitance** [μF]</th>
<th>Resistor** [kΩ]</th>
<th>Output connections</th>
<th>Fuses***</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN9262v-1-yy-zz</td>
<td>1</td>
<td>0.31 (0.18)</td>
<td>40</td>
<td>0.22 2.2</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
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<tr>
<td>FN9262v-2-yy-zz</td>
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<td>20</td>
<td>0.22 2.2</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>FN9262v-4-yy-zz</td>
<td>4</td>
<td>0.31 (0.18)</td>
<td>7</td>
<td>0.22 2.2</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>FN9262v-6-yy-zz</td>
<td>6</td>
<td>0.31 (0.18)</td>
<td>3</td>
<td>0.22 2.2</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
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<tr>
<td>FN9262v-10-yy-zz</td>
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<td>0.31 (0.18)</td>
<td>1.15</td>
<td>0.22 2.2</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
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<tr>
<td>FN9262vA-1-yy-zz</td>
<td>1</td>
<td>0.07 (0.04)</td>
<td>40</td>
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<td>55</td>
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<td>0.07 (0.04)</td>
<td>20</td>
<td>0.22 0.47</td>
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<td>-06 -07 2</td>
<td>55</td>
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<tr>
<td>FN9262vA-4-yy-zz</td>
<td>4</td>
<td>0.07 (0.04)</td>
<td>7</td>
<td>0.22 0.47</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
<td></td>
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<tr>
<td>FN9262vA-6-yy-zz</td>
<td>6</td>
<td>0.07 (0.04)</td>
<td>3</td>
<td>0.22 0.47</td>
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<td>-06 -07 2</td>
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<td>FN9262vA-10-yy-zz</td>
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<td>1.15</td>
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<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
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<td>FN9262vB-1-yy-zz</td>
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<tr>
<td>FN9262vB-2-yy-zz</td>
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<td>1000</td>
<td>-06 -07 2</td>
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<tr>
<td>FN9262vB-4-yy-zz</td>
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<td>FN9262vB-10-yy-zz</td>
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<td>0.22</td>
<td>1000</td>
<td>-06 -07 2</td>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>

* 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% to +50%, Capacitance: ±20%, Resistance: ±10%  

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

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### Product selector

**Product Code:** FN9262vwx-x-yy-zz

- **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: Fast-on 6.3 x 0.8mm (spade/soldering)  
  - 07: Wire leads

- **Rated current**  
  - 1 to 10: Rated current  
    - Blank: Standard version  
    - A: Safety version  
    - B: Medical version (without Y-capacitor)

- **Standard housing with mounting flange**  
  - Blank: Standard housing with mounting flange  
  - S: Snap-in version, snapperon vertical side

For example: FN9262-1-06, FN9262SB-10-06
Typical filter attenuation

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

FN9262 Standard Type 1 A
FN9262A Type 1 A
FN9262B Type 1 A

FN9262 Standard Type 2 A
FN9262A Type 2 A
FN9262B Type 2 A

FN9262 Standard Type 4 A
FN9262A Type 4 A
FN9262B Type 4 A

FN9262 Standard Type 6 A
FN9262A Type 6 A
FN9262B Type 6 A

FN9262 Standard Type 10 A
FN9262A Type 10 A
FN9262B Type 10 A
### Mechanical data

**FN9262w-xx-06-zz**

![Mechanical diagram for FN9262w-xx-06-zz](image1)

**FN9262w-xx-07-zz**

![Mechanical diagram for FN9262w-xx-07-zz](image2)

**FN9262Sw-xx-06-zz**

![Mechanical diagram for FN9262Sw-xx-06-zz](image3)

**FN9262Sw-xx-07-zz**

![Mechanical diagram for FN9262Sw-xx-07-zz](image4)

### Panel cut out

![Panel cut out diagram](image5)

### Installation

![Installation diagram](image6)

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

### Dimensions

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<td>46</td>
<td>34</td>
<td>34</td>
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<td><strong>B</strong></td>
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<td>50</td>
<td>41</td>
<td>50</td>
<td>±0.3</td>
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<td><strong>E</strong></td>
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<td>27.8</td>
<td>27.8</td>
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<td>32</td>
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<td>Ø3.2</td>
<td>Ø2.2</td>
<td>Ø3.2</td>
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<tr>
<td><strong>I</strong></td>
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<td>160±5**</td>
<td>14±0.5</td>
<td>160±5**</td>
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<tr>
<td><strong>J</strong></td>
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<td>12.5</td>
<td>12.5</td>
<td>12.5</td>
<td>±0.3</td>
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<tr>
<td><strong>M</strong></td>
<td>R ≤3.5</td>
<td>R ≤3.5</td>
<td>R ≤3.5</td>
<td>R ≤3.5</td>
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</tr>
<tr>
<td><strong>N</strong></td>
<td>33 ±0.3/-0</td>
<td>33 ±0.3/-0</td>
<td>33 ±0.2/-0</td>
<td>33 ±0.2/-0</td>
<td></td>
</tr>
<tr>
<td><strong>P</strong></td>
<td>29 ±0.3</td>
<td>29 ±0.3</td>
<td>29.5 ±0.2</td>
<td>29.5 ±0.2</td>
<td></td>
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<tr>
<td><strong>R</strong></td>
<td>M3</td>
<td>M3</td>
<td>M3</td>
<td>M3</td>
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<tr>
<td><strong>S</strong></td>
<td>90°</td>
<td>90°</td>
<td>90°</td>
<td>90°</td>
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<tr>
<td><strong>Z</strong></td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

*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 [www.schaffner.com](http://www.schaffner.com) to find more details on filter connections.
Accessories

Power Cord with angled Locking System C13

- Locking system for standardized IEC C14 inlet filter
- No accidental disconnection
- Rated current up to 15 A
- Fits any Schaffner IEC C14 inlet filter
- Retrofit for any IEC C14 inlet
- Various power line plugs for international usage

Datasheet PDF >

IL 13P IEC C13 Rewireable Angled Connectors with Locking System

- Locking system for standardized IEC C14 inlet filter
- No accidental disconnection
- Rated current up to 15 A
- Fits any Schaffner IEC C14 inlet filter
- Retrofit for any IEC C14 inlet
- Various power line plugs for international usage

Datasheet PDF >

IL 13P IEC C13 Rewireable Connectors with Locking System

- Guards against accidental disconnection
- Requires no other equipment or special inlets to secure it
- Rewireable - offering total flexibility when assembling cables
- Fits any Schaffner IEC C14 inlet filter
- Can be retrofitted
- Various power line plugs for international usage
- LSZH - Low smoke zero halogen

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