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

### Technical specifications

<table>
<thead>
<tr>
<th>Feature</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 → PE 2000 VAC for 2 sec (standard types)</td>
</tr>
<tr>
<td></td>
<td>P → PE 2500 VAC for 2 sec (B types)</td>
</tr>
<tr>
<td></td>
<td>P → 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, 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>
</tr>
<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>

### 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

### Typical electrical schematic

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.
## Filter selection table

<table>
<thead>
<tr>
<th>Filter Code</th>
<th>Rated current @ 40°C</th>
<th>Leakage current* @ 250 VAC/50 Hz (at 120 VAC/60 Hz)</th>
<th>Inductance L</th>
<th>Capacitance Cx</th>
<th>Capacitance Cy</th>
<th>Resistor R</th>
<th>Input/Output connections</th>
<th>Fuses**</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 9262-1-06</td>
<td>1</td>
<td>0.31 (0.18)</td>
<td>40</td>
<td>0.22</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>FN 9262-2-06</td>
<td>2</td>
<td>0.31 (0.18)</td>
<td>20</td>
<td>0.22</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
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<tr>
<td>FN 9262-4-06</td>
<td>4</td>
<td>0.31 (0.18)</td>
<td>7</td>
<td>0.22</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>FN 9262-6-06</td>
<td>6</td>
<td>0.31 (0.18)</td>
<td>3</td>
<td>0.22</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>FN 9262-10-06</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>1.15</td>
<td>0.22</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>FN 9262A-1-06</td>
<td>1</td>
<td>0.07 (0.04)</td>
<td>40</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>FN 9262A-2-06</td>
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<td>20</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
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<tr>
<td>FN 9262A-4-06</td>
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<td>0.07 (0.04)</td>
<td>7</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</td>
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<td>FN 9262A-6-06</td>
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<td>0.07 (0.04)</td>
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<td>0.47</td>
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<td>FN 9262A-10-06</td>
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<td>0.07 (0.04)</td>
<td>1.15</td>
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<td>0.47</td>
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<td>-06</td>
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<td>55</td>
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<tr>
<td>FN 9262B-1-06</td>
<td>1</td>
<td>0.00</td>
<td>40</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
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<tr>
<td>FN 9262B-2-06</td>
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<td>0.00</td>
<td>20</td>
<td>0.22</td>
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<tr>
<td>FN 9262B-4-06</td>
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<td>0.00</td>
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<td>0.22</td>
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<tr>
<td>FN 9262B-6-06</td>
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<td>0.00</td>
<td>3</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
<td>2</td>
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<tr>
<td>FN 9262B-10-06</td>
<td>10</td>
<td>0.00</td>
<td>1.15</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
<td>2</td>
<td>55</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.

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

### Product selector

- **FN 9262xx-yy-yy-yy-yy-yy**
  - **Blank:** Snap-in range for S version only
  - **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 γ-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  
FN 9262 A Type 2 A  
FN 9262 B Type 2 A

FN 9262 Standard Type 4 A  
FN 9262 A Type 4 A  
FN 9262 B Type 4 A

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

![Image of FN 9262](image1.png)

## FN 9262 S

![Image of FN 9262 S](image2.png)

## Panel cut out

![Image of panel cut out](image3.png)

## Installation

![Image of installation](image4.png)

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>FN 9262</th>
<th>FN 9262 S</th>
<th>Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>46</td>
<td>34</td>
<td>±0.3</td>
</tr>
<tr>
<td>B</td>
<td>35</td>
<td>35</td>
<td>±0.3</td>
</tr>
<tr>
<td>C</td>
<td>36</td>
<td></td>
<td>±0.3</td>
</tr>
<tr>
<td>D</td>
<td>41</td>
<td>41</td>
<td>±0.3</td>
</tr>
<tr>
<td>E</td>
<td>27.8</td>
<td>27.8</td>
<td>+0.3/-0</td>
</tr>
<tr>
<td>F</td>
<td>5.5</td>
<td>5.5</td>
<td>±0.3</td>
</tr>
<tr>
<td>G</td>
<td>32</td>
<td>32</td>
<td>+0.3/-0</td>
</tr>
<tr>
<td>H</td>
<td>Ø3.2</td>
<td></td>
<td>±0.1</td>
</tr>
<tr>
<td>I</td>
<td>14</td>
<td>14</td>
<td>±0.5</td>
</tr>
<tr>
<td>J</td>
<td>12.5</td>
<td>12.5</td>
<td>±0.3</td>
</tr>
<tr>
<td>M</td>
<td>R ≤3.5</td>
<td>R ≤3.5</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>33 +0.3/-0</td>
<td>33 +0.2/-0</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>29 ±0.3</td>
<td>29.5 ±0.2</td>
<td></td>
</tr>
<tr>
<td>R*</td>
<td>M3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>90°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T**</td>
<td>0.6-1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T**</td>
<td>1.6-2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T**</td>
<td>2.6-3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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