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**

<table>
<thead>
<tr>
<th>Standard</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current (A)</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

- **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)

**Approvals & Compliances**

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

**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)
## Filter selection table

<table>
<thead>
<tr>
<th>Filter</th>
<th>Rated current @ 40°C</th>
<th>Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)</th>
<th>Inductance**</th>
<th>Capacitance**</th>
<th>Resistor**</th>
<th>Input/Output connections</th>
<th>Fuses***</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[A]</td>
<td>[mA]</td>
<td>[mH]</td>
<td>[μF]</td>
<td>[nF]</td>
<td>[kΩ]</td>
<td></td>
<td>[Qty]</td>
</tr>
<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>
</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>
</tr>
<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>
</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>
</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>
</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>
</tr>
<tr>
<td>FN 9262A-2-06</td>
<td>2</td>
<td>0.07 (0.04)</td>
<td>20</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<tr>
<td>FN 9262A-4-06</td>
<td>4</td>
<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>
</tr>
<tr>
<td>FN 9262A-6-06</td>
<td>6</td>
<td>0.07 (0.04)</td>
<td>3</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<tr>
<td>FN 9262A-10-06</td>
<td>10</td>
<td>0.07 (0.04)</td>
<td>1.15</td>
<td>0.22</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<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>
<td>2</td>
</tr>
<tr>
<td>FN 9262B-2-06</td>
<td>2</td>
<td>0.00</td>
<td>20</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<tr>
<td>FN 9262B-4-06</td>
<td>4</td>
<td>0.00</td>
<td>7</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<tr>
<td>FN 9262B-6-06</td>
<td>6</td>
<td>0.00</td>
<td>3</td>
<td>0.22</td>
<td></td>
<td>1000</td>
<td>-06</td>
<td>2</td>
</tr>
<tr>
<td>FN9262B-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>
</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%/+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

**FN 9262xx-yyyy**

- **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)

- **S**: Standard housing with mounting flanges

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
Mechanical data

**FN 9262**

<table>
<thead>
<tr>
<th>Dimensions</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>±0.3</td>
<td></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>±0.1</td>
<td></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>2.5-3.5</td>
<td></td>
</tr>
<tr>
<td>T**</td>
<td>1.6-2.5</td>
<td>2.5-3.5</td>
<td></td>
</tr>
</tbody>
</table>

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

**FN 9262 S**

**Panel cut out**

**Installation**

**Dimensions**

- 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.
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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