Versatile Filtered Power Entry Module

- Rated currents up to 6 A
- Single or dual-fuse holder
- Fuses Ø6.3 x 32 mm or Ø5 x 20 mm
- Voltage selector 100/120/230/240 V
- General purpose application
- Optional medical versions (B type)

### Performance indicators

<table>
<thead>
<tr>
<th>Attenuation performance</th>
<th>standard</th>
<th>high</th>
<th>very high</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current [A]</td>
<td>0 4 8 12</td>
<td>16 20</td>
<td></td>
</tr>
</tbody>
</table>

### Technical specifications

- **Maximum continuous operating voltage**: 250 V, 50/60 Hz
- **Operating frequency**: DC to 400 Hz
- **Rated currents**: 2 to 6 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)
- **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 1283, CSA 22.2 No. B 1986, IEC/EN 60939
- **Flammability corresponding to**: UL 94 V-2 or better
- **MTBF @ 40°C/230 V (Mil-HB-217F)**: 550,000 hours
- **Voltage selector description**: VOL-SE 4SP-4
- **Function**: Series/parallel
- **Voltage marking**:
  - 1st: 100
  - 2nd: 120
  - 3rd: 230
  - 4th: 240
- **Closed internal contact corresponding to**:
  - 1st: a, c, e
  - 3rd: a, d
  - 4th: b, d
  - 2st: b, c, e

* Other selected voltage marking on request.

### Approvals & Compliances

- UL, CSA, ENEC, RoHS, CE, UKCA

The FN 370 power entry module combines an IEC inlet, a mains filter with a single or dual-fuse holder and a voltage selector. Choosing FN 370 product line brings you the 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, fuse options, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

### Features and benefits

- Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Single or dual-fuse holder
- USA Ø6.3 x 32 mm or EU Ø5 x 20 mm fuses
- Two attenuation performance ranges
- Voltage selector 100/120/230/240 V
- Custom-specific versions are available on request

### Typical applications

- Portable electrical and electronic equipment
- Consumer goods
- EDP and office equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment

### Typical electrical schematic

- FN 370
- FN 372 / FN 378 / FN 379
## Filter selection table

<table>
<thead>
<tr>
<th>Filter*</th>
<th>Rated current @ 40°C (25°C) [A]</th>
<th>Leakage current** @ 230 VAC/50 Hz [μA]</th>
<th>Inductance L [mH]</th>
<th>Capacitance Cx [nF]</th>
<th>Cy [nF]</th>
<th>Resistance R [kΩ]</th>
<th>Output connections Qty</th>
<th>Fuses***</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 370-2-2 z</td>
<td>2 (2.4)</td>
<td>373</td>
<td>0.70</td>
<td>47</td>
<td>2.2</td>
<td>13</td>
<td>1</td>
<td>55</td>
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<tr>
<td>FN 370-4-2 z</td>
<td>4 (4.8)</td>
<td>373</td>
<td>0.30</td>
<td>47</td>
<td>2.2</td>
<td>13</td>
<td>1</td>
<td>55</td>
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</tr>
<tr>
<td>FN 370-6-2 z</td>
<td>6 (7.2)</td>
<td>373</td>
<td>0.18</td>
<td>47</td>
<td>2.2</td>
<td>13</td>
<td>1</td>
<td>55</td>
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</tr>
<tr>
<td>FN 372-2-2 z</td>
<td>2 (2.4)</td>
<td>373</td>
<td>0.70</td>
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<td>2.2</td>
<td>13</td>
<td>2</td>
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<tr>
<td>FN 372-4-2 z</td>
<td>4 (4.8)</td>
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<td>2.2</td>
<td>13</td>
<td>2</td>
<td>55</td>
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<tr>
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<td>13</td>
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<tr>
<td>FN 378-2-2 z</td>
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<td>0.18</td>
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<tr>
<td>FN 379-2-2 z</td>
<td>2 (2.4)</td>
<td>373</td>
<td>2.00</td>
<td>47</td>
<td>2.2</td>
<td>13</td>
<td>2</td>
<td>70</td>
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<td>FN 379-6-2 z</td>
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<td>FN 379 B-2-2 z</td>
<td>2 (2.4)</td>
<td>2</td>
<td>2.00</td>
<td>47</td>
<td>1000</td>
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<td>FN 379 B-4-2 z</td>
<td>4 (4.8)</td>
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<td>FN 379 B-6-2 z</td>
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<td>2</td>
<td>0.50</td>
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<td>1000</td>
<td>13</td>
<td>2</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

* Select the requested fuse holder for fuse EUR-1 or USA-1 (z).
** Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
*** Filters are delivered without fuse.

### Product selector

#### FN 37xx-y-zz

1: Fuse Ø5 x 20mm (FUSE-H EUR-1)
2: Fuse Ø6.3 x 32mm (FUSE-H USA-1)
2 to 6: Rated current
Blank: Standard version
B: Medical version (with bleed resistor and without Y2-capacitor)

- 0: Snap-in, single fuse, standard performance
- 2: Snap-in, dual-fuse, standard performance
- 8: Flange mounting, dual-fuse, standard performance
- 9: Flange mounting, dual-fuse, high performance

For example: FN 370-6-21, FN 378-4-22, FN 379 B-2-22
Typical filter attenuation
Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym

FN 370/FN 372/FN 378  
FN 379

Mechanical data

FN 370/FN 372  
FN 378/FN 379

Connection designation

Panel cut out
### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>FN 370</th>
<th>FN 372</th>
<th>FN 378</th>
<th>FN 379</th>
<th>Tolerances</th>
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<tbody>
<tr>
<td>A</td>
<td>32</td>
<td>32</td>
<td>50</td>
<td>50</td>
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<tr>
<td>B</td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>±0.3</td>
</tr>
<tr>
<td>C</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>±0.1</td>
</tr>
<tr>
<td>D</td>
<td>54</td>
<td>54</td>
<td>54</td>
<td>54</td>
<td>±0.1</td>
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<tr>
<td>F</td>
<td>5.5</td>
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<tr>
<td>H</td>
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<tr>
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<td>12.5</td>
<td>12.5</td>
<td>12.5</td>
<td>±0.1</td>
</tr>
<tr>
<td>M</td>
<td>R ≤2</td>
<td>R ≤2</td>
<td>R ≤2</td>
<td>R ≤2</td>
<td>±0.1</td>
</tr>
<tr>
<td>N</td>
<td>55.9*/56.2**</td>
<td>55.9*/56.2**</td>
<td>55.9*/56.2**</td>
<td>55.9*/56.2**</td>
<td>+0.2/-0</td>
</tr>
<tr>
<td>P</td>
<td>28.5</td>
<td>28.5</td>
<td>28.5</td>
<td>28.5</td>
<td>+0.2/-0</td>
</tr>
<tr>
<td>R</td>
<td>M3</td>
<td>M3</td>
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<tr>
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<td>9</td>
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<td>9</td>
<td></td>
</tr>
</tbody>
</table>

* For a panel thickness between 0.8 and 3 mm
** For a back panel thickness between 2.1 and 3.2 mm

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 connectors.