High Performance Power Entry Module with Switch

- Rated currents up to 10 A
- High quality 2-pole rocker switch
- Optional safety version (A type)
- Complies with IEC/EN 60601-1 (B type)
- Snap-in versions (S type)
- Good attenuation performance

**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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
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<td></td>
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<tr>
<td>12</td>
<td></td>
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<td></td>
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<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Technical specifications**

- **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)
  - P –> PE: 2500 VAC for 2 sec (B-types)
  - P –> N: 750 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
  - Switch plastic: UL 94 V-0
- **MTBF @ Rated amb. Temp./Voltage ( MIL-HB-217F)**: 2,100,000 hours
- **Rocker switch description**
  - 2-pole, dark not illuminated
  - Marking I – 0
- **Electrical specifications**
  - Inrush current: 100 A
- **Switch ratings**
  - **Europe (ENEC)**: 10 A (4 A), 250 VAC* SE4
  - 16 A (4 A), 250 VAC* SE4
  - **USA (UL)**: 20 A, 125 VAC 1 HP, 250 VAC 2 HP

* Value in () relates to the inductive current charge: cosφ = 0.65

**Features and benefits**

- Excellent conducted attenuation performance, based on chokes with high saturation resistance and good thermal behavior
- High quality 2-pole rocker switch for all-pole disconnection
- Faston terminals for easy assembly
- B types comply with the requirements of IEC/EN 60601-1 (1MOPP) for creepage and clearance, leakage current and high potential testing
- As flange mount and snap-in types available

**Typical applications**

- Medical electrical devices (MD) and In-Vitro Diagnostic (IVD) medical devices
- Portable electrical and electronic equipment
- EDP and office equipment
- Single-phase power supplies
- Switch-mode power supplies
- Test and measurement equipment

**Approvals**

The FN 9266 power entry module combines an IEC inlet, mains filter with very high filter attenuation based on nano crystalline material selection and a switch in a small form factor. Choosing FN 9266 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</th>
<th>Rated current @ 40°C</th>
<th>Leakage current*</th>
<th>Inductance L</th>
<th>Capacitance Cx, Cy</th>
<th>Resistor R</th>
<th>Output connections</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 9266-1-06</td>
<td>1 [A] 0.31 (0.18)</td>
<td>40 [mA] 0.15</td>
<td>2.2</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266-2-06</td>
<td>2 [A] 0.31 (0.18)</td>
<td>20 [mA] 0.15</td>
<td>2.2</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266-4-06</td>
<td>4 [A] 0.31 (0.18)</td>
<td>7 [mA] 0.15</td>
<td>2.2</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266-6-06</td>
<td>6 [A] 0.31 (0.18)</td>
<td>3 [mA] 0.15</td>
<td>2.2</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266-10-06</td>
<td>10 [A] 0.31 (0.18)</td>
<td>1.15 [mA] 0.15</td>
<td>2.2</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266A-1-06</td>
<td>1 [A] 0.07 (0.04)</td>
<td>40 [mA] 0.15</td>
<td>0.47</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266A-2-06</td>
<td>2 [A] 0.07 (0.04)</td>
<td>20 [mA] 0.15</td>
<td>0.47</td>
<td>1000 [kΩ]</td>
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<td>55 [g]</td>
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<td>1000 [kΩ]</td>
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<td>55 [g]</td>
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</tr>
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<td>0.47</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
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</tr>
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<td>10 [A] 0.07 (0.04)</td>
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<td>0.47</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
</tr>
<tr>
<td>FN 9266B-1-06</td>
<td>1 [A] 0.00</td>
<td>40 [mA] 0.15</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FN 9266B-2-06</td>
<td>2 [A] 0.00</td>
<td>20 [mA] 0.15</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FN 9266B-4-06</td>
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<td>7 [mA] 0.15</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
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</tr>
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<td>3 [mA] 0.15</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FN 9266B-10-06</td>
<td>10 [A] 0.00</td>
<td>1.15 [mA] 0.15</td>
<td>1000 [kΩ]</td>
<td>-06</td>
<td>55 [g]</td>
<td></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.

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**Product selector**

To order, use the following format:

**FN 9266xx-yy-zz**

**Example:** FN 9266-1-06, FN 9266 SB-10-06

**Parameters**

- **Blank:** Standard version
- **A:** Safety version
- **B:** Medical version (without Y-capacitor)
- **S:** Snap-in version, snapper on vertical side
- **V:** Snap-in version, snapper on horizontal side
- **06:** Faston 6.3 x 0.8mm (spade/soldering)

**Options**

- **20:** Snap-in range 1.6 to 2.5mm
- **30:** Snap-in range 2.6 to 3.5mm
- **1 to 10:** Rated current
- **0.6 to 1.5mm**

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For example: **FN 9266-1-06, FN 9266 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 9266 Standard Type 1 A

FN 9266 A Type 1 A

FN 9266 B Type 1 A

FN 9266 Standard Type 2 A

FN 9266 A Type 2 A

FN 9266 B Type 2 A

FN 9266 Standard Type 4 A

FN 9266 A Type 4 A

FN 9266 B Type 4 A

FN 9266 Standard Type 6 A

FN 9266 A Type 6 A

FN 9266 B Type 6 A

FN 9266 Standard Type 10 A

FN 9266 A Type 10 A

FN 9266 B Type 10 A
## Mechanical data

### FN 9266

![FN 9266 Diagram](image1)

### FN 9266 S

![FN 9266 S Diagram](image2)

### Panel cut out

![Panel cut out Diagram](image3)

### Installation

![Installation Diagram](image4)

## Dimensions

<table>
<thead>
<tr>
<th></th>
<th>FN 9266</th>
<th>FN 9266 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>46</td>
<td>46</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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