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

**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 -&gt; PE 2000 VAC for 2 sec (Standard)</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 (2S/8S/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, Switch 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>Rocker switch description</td>
<td>2-pole, dark not illuminated</td>
</tr>
<tr>
<td>Function</td>
<td>Marking I – 0</td>
</tr>
<tr>
<td>Electrical specifications</td>
<td>Inrush current 100 A</td>
</tr>
<tr>
<td></td>
<td>50,000 on-off operations for 10 A according to EN 61058-1</td>
</tr>
<tr>
<td>Switch ratings</td>
<td>10 A (4 A), 250 VAC* 5E4</td>
</tr>
<tr>
<td>Europe (ENEC)</td>
<td>16 A (4 A), 250 VAC* 1E4</td>
</tr>
<tr>
<td>USA (UL)</td>
<td>20 A, 125 VAC 1 HP, 250 VAC 2 HP</td>
</tr>
</tbody>
</table>

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

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

**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**

- UL
- CSA
- CE
- RoHS

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</th>
<th>Leakage current*</th>
<th>Inductance</th>
<th>Capacitance</th>
<th>Resistor</th>
<th>Output connections</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>(@ 120 VAC/60 Hz)</td>
<td>[g]</td>
</tr>
<tr>
<td>FN 9266-1-06</td>
<td>1</td>
<td>0.31 (0.18)</td>
<td>40</td>
<td>0.15</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266-2-06</td>
<td>2</td>
<td>0.31 (0.18)</td>
<td>20</td>
<td>0.15</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266-4-06</td>
<td>4</td>
<td>0.31 (0.18)</td>
<td>7</td>
<td>0.15</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266-6-06</td>
<td>6</td>
<td>0.31 (0.18)</td>
<td>3</td>
<td>0.15</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266-10-06</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>1.15</td>
<td>0.15</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266A-1-06</td>
<td>1</td>
<td>0.07 (0.04)</td>
<td>40</td>
<td>0.15</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266A-2-06</td>
<td>2</td>
<td>0.07 (0.04)</td>
<td>20</td>
<td>0.15</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266A-4-06</td>
<td>4</td>
<td>0.07 (0.04)</td>
<td>7</td>
<td>0.15</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266A-6-06</td>
<td>6</td>
<td>0.07 (0.04)</td>
<td>3</td>
<td>0.15</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266A-10-06</td>
<td>10</td>
<td>0.07 (0.04)</td>
<td>1.15</td>
<td>0.15</td>
<td>0.47</td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266B-1-06</td>
<td>1</td>
<td>0.00</td>
<td>40</td>
<td>0.15</td>
<td></td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266B-2-06</td>
<td>2</td>
<td>0.00</td>
<td>20</td>
<td>0.15</td>
<td></td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266B-4-06</td>
<td>4</td>
<td>0.00</td>
<td>7</td>
<td>0.15</td>
<td></td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN 9266B-6-06</td>
<td>6</td>
<td>0.00</td>
<td>3</td>
<td>0.15</td>
<td></td>
<td>1000</td>
<td>-06</td>
</tr>
<tr>
<td>FN9266B-10-06</td>
<td>10</td>
<td>0.00</td>
<td>1.15</td>
<td>0.15</td>
<td></td>
<td>1000</td>
<td>-06</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**

FN 9266xx-yy-yy-y

- 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)
- Blank: Standard housing with mounting flanges
- S: Snap-in version, snapping on vertical side

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**

<table>
<thead>
<tr>
<th>Dimensions</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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