Performance EMI Filter

- Rated currents from 1 to 10 A
- Compact housing
- Optional overvoltage protection (Z type)

Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum continuous 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 at 40°C max</td>
</tr>
<tr>
<td>High potential test voltage</td>
<td>P -&gt; PE 2000 VAC for 2 sec</td>
</tr>
<tr>
<td>Temperature range (operation and storage)</td>
<td>-25°C to +100°C (25/100/21)</td>
</tr>
<tr>
<td>Flammability corresponding to</td>
<td>UL 94 V-2 or better</td>
</tr>
<tr>
<td>Design corresponding to</td>
<td>UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939</td>
</tr>
<tr>
<td>Surge pulse protection (Z type)</td>
<td>2 kV, IEC 61000-4-5</td>
</tr>
<tr>
<td>MTBF @ 40°C/230 V (Mil-HB-217F)</td>
<td>710,000 hours</td>
</tr>
</tbody>
</table>

Features and Benefits

- FN 332 filters are designed for easy and fast chassis mounting
- FN 332 filters are also available with integrated surge pulse protection to safeguard sensitive electrical equipment
- All FN 332 single-phase filters provide a good attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Chokes with high saturation resistance and high inductivity
- Surge pulse protection
- Custom-specific versions on request

Approvals & Compliances

- UL
- CE
- UK
- CA
- RoHS

Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Power supplies
- Office automation equipment
- Datacom equipment
- Industrial equipment auxiliary supply

Typical electrical schematic
## Filter Selection Table

<table>
<thead>
<tr>
<th>Filter</th>
<th>Rated current @ 40°C (25°C)</th>
<th>Leakage current* @ 230 VAC/50 Hz</th>
<th>Inductance</th>
<th>Capacitance</th>
<th>Surge current</th>
<th>Energy absorption</th>
<th>Input/Output connections</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[A]</td>
<td>[μA]</td>
<td>[mH]</td>
<td>[nF]</td>
<td>[nF]</td>
<td>[A]</td>
<td>[J]</td>
<td>[g]</td>
</tr>
<tr>
<td>FN 332-1-05</td>
<td>1 (1.2)</td>
<td>340</td>
<td>10</td>
<td>15</td>
<td>2.2</td>
<td>-05</td>
<td></td>
<td>65</td>
</tr>
<tr>
<td>FN 332-3-05</td>
<td>3 (3.6)</td>
<td>340</td>
<td>2</td>
<td>15</td>
<td>2.2</td>
<td>-05</td>
<td></td>
<td>65</td>
</tr>
<tr>
<td>FN 332-6-05</td>
<td>6 (7.3)</td>
<td>340</td>
<td>0.8</td>
<td>15</td>
<td>2.2</td>
<td>-05</td>
<td></td>
<td>65</td>
</tr>
<tr>
<td>FN 332-10 A-05</td>
<td>10 (12)</td>
<td>340</td>
<td>0.5</td>
<td>15</td>
<td>2.2</td>
<td>-05</td>
<td></td>
<td>70</td>
</tr>
<tr>
<td>FN 332 Z-1-05</td>
<td>1 (1.2)</td>
<td>340</td>
<td>10</td>
<td>15</td>
<td>2.2</td>
<td>1200</td>
<td>26</td>
<td>-05</td>
</tr>
<tr>
<td>FN 332 Z-3-05</td>
<td>3 (3.6)</td>
<td>340</td>
<td>2</td>
<td>15</td>
<td>2.2</td>
<td>1200</td>
<td>26</td>
<td>-05</td>
</tr>
<tr>
<td>FN 332 Z-6-05</td>
<td>6 (7.3)</td>
<td>340</td>
<td>0.8</td>
<td>15</td>
<td>2.2</td>
<td>1200</td>
<td>26</td>
<td>-05</td>
</tr>
<tr>
<td>FN 332 Z-10-05</td>
<td>10 (12)</td>
<td>340</td>
<td>0.5</td>
<td>15</td>
<td>2.2</td>
<td>1200</td>
<td>26</td>
<td>-05</td>
</tr>
</tbody>
</table>

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

## 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
### Mechanical Data

**FN 332**

![Diagram of FN 332](image)

### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>1 to 10 A types</th>
<th>Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>65.6</td>
<td>±0.5</td>
</tr>
<tr>
<td>B</td>
<td>45</td>
<td>±0.5</td>
</tr>
<tr>
<td>C</td>
<td>24.8</td>
<td>±0.5</td>
</tr>
<tr>
<td>D</td>
<td>28</td>
<td>±0.5</td>
</tr>
<tr>
<td>E</td>
<td>40</td>
<td>±0.5</td>
</tr>
<tr>
<td>F</td>
<td>37</td>
<td>±0.4</td>
</tr>
<tr>
<td>G</td>
<td>12.5</td>
<td>±0.2</td>
</tr>
<tr>
<td>H</td>
<td>9.6</td>
<td>±0.2</td>
</tr>
<tr>
<td>I</td>
<td>18.7</td>
<td>±0.5</td>
</tr>
<tr>
<td>J</td>
<td>14</td>
<td>±0.5</td>
</tr>
<tr>
<td>K</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>3.9</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>6.3 x 0.8</td>
<td></td>
</tr>
</tbody>
</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 connectors
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**Schaffner:**
- FN332-3-05
- FN332-6-05
- FN332-10A-05
- FN332Z-3-05
- FN332Z-6-05
- FN332Z-10-05
- FN332-1-05