General Purpose AC/DC EMI Filter with High Attenuation Performance

- Rated currents from 1 to 30 A
- High performance filter attenuation
- High differential-mode attenuation
- Optional medical versions (B type)
- Optional safety versions (A type)
- Optional enhanced performance versions
- Optional overvoltage protection (Z type)

### Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td><strong>Rated voltage</strong></td>
<td>250 VAC, 50/60 Hz; 250 VDC</td>
</tr>
<tr>
<td><strong>Operating frequency</strong></td>
<td>DC to 400 Hz</td>
</tr>
<tr>
<td><strong>Rated currents</strong></td>
<td>1 to 30 A @ 40°C max.</td>
</tr>
</tbody>
</table>
| **High potential test voltage** | P → PE 2000 VAC for 2 sec (equiv. cap <88 nF)  
  P → PE 2550 VDC for 2 sec (equiv. cap >88 nF)  
  P → PE 2500 VAC for 2 sec (B types)  
  P → N 1100 VDC for 2 sec |
| **Temperature range (operation and storage)** | -25°C to +100°C (25/100/21)** |
| **Certified to** | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 (applies to AC and DC applications) |
| **Flammability corresponding to** | Terminal plastic for -06/-08 version: UL 94 V-0  
  Laces for -07 version: UL 94-V-1  
  Grommet for -07 version: UL 94-V-0 |
| **Overvoltage category**   | Class 2 acc. IEC 60664-1 |
| **Pollution degree**       | 2 acc. IEC 60664-1 |
| **MTBF @ 40°C/230 V (Mil-HB-217F)** | 2,200,000 hours (1 to 10 A types)  
  1,200,000 hours (12 to 30 A types) |
| **Surge pulse protection (Z type)** | Helps compliance to IEC61000-4-5 (Differential Mode only) |

*maximum RMS operating voltage at rated frequency or the maximum DC operating voltage.
**for dedicated requests exceeding this specification (e.g. -40 °C or higher altitude) please contact your local Schaffner Sales office.

### Features and benefits

- FN 2030 filters are designed for easy and fast chassis mounting.
- FN 2030 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1.
- FN 2030 A versions with low capacitance to earth for safety critical applications with a requirement for low leakage currents.
- FN 2030 filters offer an optimized filter range for high performance AC and DC applications, in same compact size (M, N1 types).
- All filters provide an exceptional conducted attenuation performance, based on chokes with high permeable core material and excellent thermal behavior.
- The higher inductivity versus amperage offers increased attenuation performance with same form factor compared to FN 2010 and FN 2020 filter series.
- All FN 2030 filters can be delivered with optional surge pulse protection (Z type).
- Various terminal options allow you to select the desired connection style.

### Typical application

- Electrical and electronic equipment.
- Consumer goods.
- Household equipment.
- Medical equipment.
- Electronic data processing equipment.
- Office automation and datacom equipment.
- Various noisy applications requiring high filter performance.

### Typical electrical schematic
### Filter selection table

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<tr>
<th>Filter*</th>
<th>Buy</th>
<th>Rated current @ 40°C (25°C)</th>
<th>Leakage current** @ 250 VAC/50 Hz (at 120 VAC/60 Hz)</th>
<th>Power Loss @25°C/DC</th>
<th>Inductance*** L</th>
<th>Capacitance*** Cx</th>
<th>Cy</th>
<th>Resistance*** R</th>
<th>Input/Output connections</th>
<th>Weight</th>
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* To compile a complete part number, please replace the -.. with the required I/O connection style. For surge pulse protection, please add Z (e.g. FN 2030Z-10-06, FN 2030BZ-20-08).

** Maximum leakage under usual AC operating conditions (acc. 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%
Typical filter attenuation
Per CISPR 17; CM=50 Ω/50 Ω sym; DM=50 Ω/50 Ω asym

1A: Standard type
A type
B type
Enhanced performance

3A: Standard type
A type
B type
Enhanced performance

4A: Standard type
A type
B type
Enhanced performance

6A: Standard type
A type
B type
Enhanced performance

8A: Standard type
A type
B type
Enhanced performance
**Product selector**

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<td>Wire leads</td>
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<td>08</td>
<td>Stud (M4 screw)</td>
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**Mechanical data**

**Connection style -06, 1 A types**

**Connection style -06, 8 to 20 A types**

**Connection style -06, 3 to 6 A types**

**Connection style -07, 1 to 6 A types (same dimensions as style -06)**

**Connection style -07, 8 to 16 A types (same dimensions as style -06)**

**Connection style -08, 16 to 30 A types**
### Dimensions

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**Connection style -07**

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**AWG type wire**

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**Wire length**

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**Recommended torque (Nm)**

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**Earth terminal**

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All dimensions in mm; 1 inch = 25.4 mm

Tolerances according: ISO 2768-m/EN 22768-m
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