Compact filtered power entry module

- Complies with IEC/EN 60601-1
- Rated currents up to 10 A
- Single or dual-fuse holder
- Fuses Ø5 x 20 mm
- 2-pole rocker switch
- General purpose application
- Optional earth line choke (E type)
- Optional medical versions (B type)

Performance indicators

Attenuation performance

<table>
<thead>
<tr>
<th>Rated current (A)</th>
<th>standard</th>
<th>High</th>
<th>very high</th>
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<tbody>
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</tbody>
</table>

Technical specifications

- Maximum continuous operating voltage: 250 V, 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 types)
  - P -> PE: 2500 VAC for 2 sec (B types)
  - P -> N: 760 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 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
- Flammability corresponding to: UL 94 V-2 or better
- MTBF @ 40°C/230 V (Mil-HB-217F): 1,500,000 hours
- Fuse holder:
  - 1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6)
  - max. 250 V – (text is print. below fuse symbol)
- Marking:
- Rocker switch description:
  - Function: 2-pole, dark not illuminated
  - Marking I - 0
- Electrical specifications:
  - Inrush current: 82 A
  - 6,000 on-off operations according to UL 1054, TVS
  - 10,000 on-off operations according to ENEC
- Switch ratings:
  - USA (UL) and Canada (C-UL): 10 A, 125 VAC, 10 A, 250 VAC, 1/3 HP
  - Europe (ENEC): 10 A (4 A), 250 VAC*
- Mechanical life: 50,000 cycles

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

Features and benefits

- High 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
- 2-pole rocker switch
- 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

Approvals

- CQC (except Hl-types)
- UL, CSA, ENEC, CE, RoHS
- IEC Inlet Filters FN 280

The FN 280 power entry module combines an IEC inlet, a mains filter with single or dual-fuse holder and a 2-pole rocker switch in a small form factor. Choosing FN 280 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.
### 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 L1 [mH]</th>
<th>Capacitance Cx [nF]</th>
<th>Capacitance Cy [nF]</th>
<th>Resistance R [kΩ]</th>
<th>Output connections Qty</th>
<th>Fuses**</th>
<th>Weight [g]</th>
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<td>373</td>
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</table>

* 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.
### Filter Rated current Leakage current** Inductance Capacitance Resistance Output Fuses** Weight

<table>
<thead>
<tr>
<th>Filter</th>
<th>@ 40°C (25°C)</th>
<th>Leakage current** @ 230 VAC/50 Hz</th>
<th>Inductance L1 L2</th>
<th>Capacitance Cx Cy</th>
<th>Resistance R</th>
<th>Output connections Qty</th>
<th>Fuses**</th>
<th>Weight</th>
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</thead>
<tbody>
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* 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

- **06**: Faston 6.3 x 0.8mm (spade/soldering)
- **1 to 10**: Rated current
- **Blank**: Standard version
- **E**: Optional earth line choke
- **B**: Medical version (with bleed resistor and without Y2-capacitor)

- **1**: Flange mounting version top/bottom, single-fuse
- **2**: Flange mounting version top/bottom, dual-fuse
- **3**: Flange mounting version left/right, single-fuse
- **4**: Flange mounting version left/right, dual-fuse
- **5**: Snap-in version, single-fuse
- **6**: Snap-in version, dual-fuse

For example: FN 281-6-06, FN 283 B-04-06, FN 283 E-1-06

### 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

1 A types

2 to 6 A types

10 A types
Mechanical data

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<th>FN 283/FN 284</th>
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Dimensions

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* For a panel thickness between 0.8 and 3 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.
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