Compact filtered power entry module

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

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</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 @ 40°C max.</td>
</tr>
<tr>
<td>High potential test voltage for capacitors</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 (25/85/21)</td>
</tr>
<tr>
<td></td>
<td>-25°C to +85°C (25/85/21)</td>
</tr>
<tr>
<td>Design corresponding to</td>
<td>UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939</td>
</tr>
<tr>
<td>Flammability corresponding to</td>
<td>UL 94 V-2 or better</td>
</tr>
<tr>
<td>MTBF @ 40°C/230 V (MII-HB-217F)</td>
<td>≥ 616,000 hours</td>
</tr>
<tr>
<td>Rocker switch description</td>
<td>2-pole, dark not illuminated, Marking I – 0</td>
</tr>
<tr>
<td>Function</td>
<td>2-pole, dark not illuminated, Marking I – 0</td>
</tr>
<tr>
<td>Electrical specifications</td>
<td>Inrush current 100 A</td>
</tr>
<tr>
<td>Switch ratings</td>
<td>50,000 on-off operations for 10 A according to EN 610581-1</td>
</tr>
<tr>
<td>Europe (ENEC)</td>
<td>10 A (4 A), 250 VAC* 5E4</td>
</tr>
<tr>
<td></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>
<tr>
<td></td>
<td>* Value in () relates to the inductive current charge: cosφ = 0.65</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
- Medical version (B type) according IEC/EN 60601-1
- As flange mount and snap-in types available

Approval

UL, CEC, RoHS, CE

Typical applications

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

Typical electrical schematic

FN 9264 (B types without Y-capacitors)
## Filter selection table

<table>
<thead>
<tr>
<th>Filter</th>
<th>Rated current @ 40°C (25°C)</th>
<th>Leakage current* @ 250 VAC/50 Hz (25°C)</th>
<th>Inductance L</th>
<th>Capacitance Cx</th>
<th>Capacitance Cy**</th>
<th>Resistance R</th>
<th>Output connections</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 9264xx-1-06-y</td>
<td>1.2 (1.2)</td>
<td>0.31 (0.18)</td>
<td>5.15</td>
<td>0.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</td>
</tr>
<tr>
<td>FN 9264xx-2-06-y</td>
<td>2.3 (2.3)</td>
<td>0.31 (0.18)</td>
<td>2.7</td>
<td>1.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</td>
</tr>
<tr>
<td>FN 9264xx-3-06-y</td>
<td>3.6 (3.6)</td>
<td>0.31 (0.18)</td>
<td>2</td>
<td>1.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</td>
</tr>
<tr>
<td>FN 9264xx-4-06-y</td>
<td>4.6 (4.6)</td>
<td>0.31 (0.18)</td>
<td>1</td>
<td>0.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</td>
</tr>
<tr>
<td>FN 9264xx-6-06-y</td>
<td>6.9 (6.9)</td>
<td>0.31 (0.18)</td>
<td>0.3</td>
<td>0.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</td>
</tr>
<tr>
<td>FN 9264xx-10-06-y</td>
<td>11.5 (11.5)</td>
<td>0.31 (0.18)</td>
<td>0.21</td>
<td>0.1</td>
<td>2.2</td>
<td>1000</td>
<td>-06</td>
<td>55</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. For B type filters without Y2-capacitors the leakage current is 0.00mA.

### Product selector

**FN 9264xx-yy-yy**

- **Blank**: Snap-in panel thickness range 1.0 to 2.5 mm
- **30**: Snap-in panel thickness range >2.5 to 3.5 mm
- **06**: Faston 6.3 x 0.8mm (spade/soldering)
- **1 to 10**: Rated current
  - **Blank**: Standard version
  - **B**: Medical version (without Y2-capacitor, leakage current max 2µA*)

For example: FN 9264-1-06, FN 9264 B-6-06, FN 9264 SB-4-06-30
Typical filter attenuation

Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym
Mechanical data

**FN 9264**

*Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm*

**Panel cut out**

**FN 9264 S**

**Panel cut out**

Installation
Accessories for IEC Inlet Filters and Power Entry Modules

The accessories displayed are a selection of available accessories for IEC Inlet filters and IEC Power entry modules. As they are displayed in a general way there might be variants of the filters where the accessories are not available.

For further information please ask your local Schaffner Sales Partner and visit our homepage https://www.schaffner.com/.

**Power Cord with Locking System for Inlet Filters IL 13, IL 13 P, IL 19**

The locking system has a tensile force of typical 200N. It is recommended to use it with flange mount filters.

**Lock Power Cords with IEC Inlets and Filters**

Schaffner power cords with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit for all electronic equipments and devices.

**IEC C13 Rewirable Connector for individual Power Cord with Locking System**

The locking system has a tensile force of typical 300N. It is recommended to use it with flange mount filters. For details refer to our Application Note "Using IEC Lock Power Cords with IEC Inlets and Filters" Schaffner power connector with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit for all electronic equipments and devices.

**Insulating Boots**

There is a full range of insulating boots available from Schaffner that provide a physical cover for the exposed terminals on the back of IEC Inlet Filters.

These boots fit the simplest non-fused and unswitched style up to the fully fused and switched IEC filtered inlet. The boots are made from a durable black PVC material that conforms to UL94-V0 flammability requirements.

The boots slip easily over the back of the filter and reduce the risk of electrical shock to maintenance personnel whilst protecting the filter from environmental hazard such as the ingress of dust and moisture.
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