Power Cord Input EMC Filter IF 13

Features and benefits
- Easy to implement, no redesign required
- EMC lifeline at last design stage
- High performance in high frequency range
- Retrofit for cord connected devices
- No space allocation required for filter

Typical applications
- All cord connected applications
- Datacenter
- Communication Technology
- Medical and Laboratory devices
- Security applications
- High frequency applications
- Applications with critical housing dimensions (cable is external)
Typical electrical schematics

**Schematic without ferrite cable (IF13-US3-SVT-3100-NF-ZZZ)**

**Schematic with ferrite cable and Cy (IF13-US3/EU2-H05-3100-WF-ZZZ)**

**Schematic of dual stage filter (IF13-SE-H05-3100-WF-XXX)**

**Schematic with ferrite cable without Cy (IFSE-US3-H05-3100-WF-200)**

Filter selection table

<table>
<thead>
<tr>
<th>Filter*</th>
<th>Rated current @ 40°C (25°C)</th>
<th>Leakage current** @ 250V AC/50 Hz (at 120V AC/60 Hz)</th>
<th>Inductance L [mH]</th>
<th>Capacitance C [μF]</th>
<th>Resistance R [kΩ]</th>
<th>Ferrite Cable***</th>
<th>Input connection</th>
<th>Output connection</th>
<th>Weight (200 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IF13-US3-SVT-3100-NF-...</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>0.8</td>
<td>0.1</td>
<td>2.2</td>
<td>no</td>
<td>NEMA5-15</td>
<td>C13</td>
<td>240</td>
</tr>
<tr>
<td>IF13-US3-H05-3100-WF-...</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>0.8</td>
<td>0.1</td>
<td>2.2</td>
<td>yes</td>
<td>NEMA5-15</td>
<td>C13</td>
<td>340</td>
</tr>
<tr>
<td>IF13-EU2-H05-3100-WF-...</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>0.8</td>
<td>0.1</td>
<td>2.2</td>
<td>yes</td>
<td>CEE7/VII</td>
<td>C13</td>
<td>360</td>
</tr>
<tr>
<td>IF13-SE-H05-3100-WF-...</td>
<td>10</td>
<td>0.31 (0.18)</td>
<td>0.8 (2x)</td>
<td>0.1</td>
<td>2.2</td>
<td>yes</td>
<td>Stripped Ends</td>
<td>C13</td>
<td>410</td>
</tr>
<tr>
<td>IFSE-US3-H05-3100-WF-...</td>
<td>10</td>
<td>0</td>
<td>0.8</td>
<td>0.1</td>
<td>yes</td>
<td>NEMA5-15</td>
<td>Stripped Ends</td>
<td>310</td>
<td></td>
</tr>
</tbody>
</table>

* To compile a complete part number, please replace the -.. with the required length.

** Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

*** All cable is shielded

Product selector IF 13

IFxx-yyy-zzz-aaaa-bb-ccc:

- **Cable length**: 200 – 2000 cm
- **Cable version**: WF – With ferrite cable, NF – without ferrite cable
- **Cable core**: 3 x 1.00 mm² (US AWG 16)
- **Cable type**: H05 - H05VVF, SVT - SVT
- **Ferrite**: EU2 – CEE7/VII straight, integrated filter
- **Line plug**: US3 – NEMA-15, straight, integrated filter SE – with stripped ends
- **Load side plug**: 13 - IEC C13 female plug, straight, integrated filter SE – with stripped ends
Cable selection table IF 13

- **IF 13-US3-SVT-3100-NF-...**
  IEC cable assembly with input EMC Filter, IEC C13 connector, without ferrite coated cable, US version

- **IF 13-US3-H05-3100-WF-...**
  IEC cable assembly with input EMC Filter, IEC C13 connector, with ferrite coated cable, US version

- **IF 13-EU2-H05-3100-WF-...**
  IEC cable assembly with input EMC Filter, IEC C13 connector, with ferrite coated cable, EU version

- **IF 13-SE-H05-3100-WF-...**
  IEC cable assembly with EMC Filter, IEC C13 connector, with ferrite coated cable, stripped version

- **IF SE-US3-H05-3100-WF-...**
  IEC cable assembly with input EMC Filter, stripped output, with ferrite coated cable, US version

* All cables are shielded

Typical filter attenuation

Per CISPR 17; \( A=50 \, \Omega/50 \, \Omega \text{ sym}; B=50 \, \Omega/50 \, \Omega \text{ asym} \)

- **IF13-US3-SVT-3100-NF-200**
- **IF13-US3-H05-3100-WF-200**
- **IF13-EU2-H05-3100-WF-200**
- **IF13-SE-H05-3100-WF-200**
- **IFSE-US3-H05-3100-WF-200**
Mechanical data

IF13-US3-SVT-3100-NF

IF13-US3-H05-3100-WF

IF13-EU2-H05-3100-WF

IF13-SE-H05-3100-WF-200

IFSE-US3-H05-3100-WF

Please visit www.schaffner.com to find more details on filter connectors.