General Performance IEC Inlet Filter

Features and benefits
- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Wide mounting flanges available
- FN 9222 B versions comply with the requirements of 1MOP acc. to IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing
- 12 and 15 A types with hot inlet available
- Optional surge pulse protection
- Different output connections offering maximum flexibility for assembly
- Custom-specific versions are available on request

Typical applications
- Portable electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment
- Rack-mounting equipment

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</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 20 A @ 50°C</td>
</tr>
<tr>
<td>Approvals by rated current</td>
<td>1 to 10 A (ENEC, CQC)</td>
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<tr>
<td></td>
<td>16 A (ENEC, CQC) for 16 and 20 A types</td>
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<td></td>
<td>1 to 20 A (UL, CSA)</td>
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<tr>
<td>High potential test voltage</td>
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<tr>
<td>P -&gt; PE 2000 VAC for 2 sec (standard types)</td>
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</tr>
<tr>
<td>P -&gt; N 250 VAC for 2 sec (all Z types)</td>
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</tr>
<tr>
<td>P -&gt; N 1000 VAC for 2 sec (1 to 10 A types, not Z types)</td>
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</tr>
<tr>
<td>P -&gt; PE 2500 VAC for 2 sec (8 B types)</td>
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</tr>
<tr>
<td>P -&gt; N 1100 VDC for 2 sec (16 and 20 A types, not Z types)</td>
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</tr>
<tr>
<td>Protection category</td>
<td>IP 40 according to IEC 60529</td>
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<tr>
<td>Temperature range (operation and storage)</td>
<td>-25°C to +85°C (25/85/21)</td>
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<tr>
<td>Design corresponding to</td>
<td>UL 1283, CSA 22.2 No. B 1986, IEC/EN 60939 (X to XX A, not Z types)</td>
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<tr>
<td>Flammability corresponding to</td>
<td>UL 94 V-2 or better</td>
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<td>Surge pulse protection (Z type)</td>
<td>Helps compliance to IEC61000-4-5 (Differential Mode only)</td>
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<tr>
<td>MTBF @ 40°C/230 V (MIL-HB-217F)</td>
<td>≤15 A: 3,046,000 hours</td>
</tr>
<tr>
<td></td>
<td>≥16 A: 2,256,000 hours</td>
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Approvals & Compliances

The FN 9222 IEC inlet filter combines an IEC inlet and mains filter with excellent filter attenuation in a small form factor. Choosing the FN 9222 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, output connections, 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 @ 50°C (25°C)</th>
<th>Leakage current* @ 250 VAC/50 Hz (at 120 VAC/60 Hz)</th>
<th>Inductance L</th>
<th>Capacitance Cx</th>
<th>Capacitance Cy</th>
<th>Resistance R</th>
<th>Output connections</th>
<th>Weight</th>
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<td>1 (1.2)</td>
<td>0.31 (0.18)</td>
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<td>-07</td>
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<td>-07</td>
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<td>FN9222B-12..HI</td>
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<td>FN9222B-15..HI</td>
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<td>0.31 (0.18)</td>
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<td>0.1</td>
<td>2.2</td>
<td>-06</td>
<td>43</td>
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</tr>
</tbody>
</table>

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

- FN 9222xx-yy...HI-zz
  - Snap-in range for S version only
  - Blank: Snap-in range 0.7 to 1.5mm
  - 20: Snap-in range 1.5 to 2.2mm
  - HI: Standard IEC inlet type C14 (1 to 15A types), C20 (16 and 20A types)
  - Blank: Hot IEC inlet type C16 (12 and 15A types only)
  - 06: Fiseton 6.3 x 0.8mm (spade/soldering)
  - 07: Wire leads
  - 1 to 20: Rated current
  - Blank: Standard version
  - R: Bleed resistor
  - B: Medical version (with bleed resistor and without Y2 capacitor)
  - Z: Optional surge pulse protection with additional varistor (MOV)
  - (Z types have longer housings, only available for FN 9222UZ-yy-06)
    - Blank: Standard housing with mounting flanges
    - U: Housing with wider mounting flanges
    - S: Snap-in version, snapper on vertical side (1 to 15A types only)
    - S1: Snap-in version, snapper on horizontal side (1 to 15A types only)

For example: FN 9222 E-15-06, FN 9222 ES1B-10-06-20, FN 9222 ER-12-06HI, FN 9222 EUJ-8-06-20

Typical electrical schematic

- Standard, R and B types
  - 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

Distributor inventory

Check stock levels at global distributors at 
https://products.schaffner.com/stock
(Also available via the QR code)

- Stock level per types 1 - 15 A
  - Standard housing types
  - Housing with wider mounting flanges (U)
  - Snap-in housing types (S&S1)
  - Medical versions (B)
  - Bleed resistor types (R)
  - Surge protection types (UZ)

Typical filter attenuation

- 1 and 3 A types
- 6 to 10 A types
- 12 and 15 A types
- 16 and 20 A types
Mechanical data

**FN 9222 1 to 15 A types**

**FN 9222 S**

**FN 9222-HI**

**-07 connection style**

**Panel cut out**

**Installation**

**FN 9222, 16 and 20 A types**

**FN 9222 S1**

**FN 9222 U**

**Panel cut out**

**Installation**
### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>FN 9222 1 to 8 A</th>
<th>FN 9222 10 to 15 A</th>
<th>FN 9222 16 and 20 A</th>
<th>FN 9222 S 1 to 8 A</th>
<th>FN 9222 S 10 to 15 A</th>
<th>FN 9222 S1 1 to 8 A</th>
<th>FN 9222 S1 10 to 15 A</th>
<th>FN 9222-HI 12 and 15 A</th>
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* Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

** For selecting the panel thickness, please refer to the filter selector 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.
Accessories

Power Cord with angled Locking System C13

- Locking system for standardized IEC C14 inlet filter
- No accidental disconnection
- Rated current up to 15 A
- Fits any Schaffner IEC C14 inlet filter
- Retrofit for any IEC C14 inlet
- Various power line plugs for international usage

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IL 13P IEC C13 Rewireable Angled Connectors with Locking System

- Locking system for standardized IEC C14 inlet filter
- No accidental disconnection
- Rated current up to 15 A
- Fits any Schaffner IEC C14 inlet filter
- Retrofit for any IEC C14 inlet
- Various power line plugs for international usage

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IL 13P IEC C13 Rewireable Connectors with Locking System

- Guards against accidental disconnection
- Requires no other equipment or special inlets to secure it
- Rewireable - offering total flexibility when assembling cables
- Fits any Schaffner IEC C14 inlet Filter
- Can be retrofitted
- Various power line plugs for international usage
- LSZH - Low smoke zero halogen

Datasheet PDF >
Headquarters, global innovation and development

Schaffner Group
Industrie Nord
Nordstrasse 11e
4542 Luterbach
T +41 32 681 66 26
info@schaffner.com

Switzerland

To find your local partner within Schaffner’s global network: www.schaffner.com

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Sales and application centers

China
Schaffner EMC Ltd. Shanghai
T20-3 C, No 565 Chuanyue Road, Pudong district
201201 Shanghai
T +86 21 3813 9500
cschina@schaffner.com
www.schaffner.com.cn

Finland
Schaffner Oy
Savonrinne 19 H
08500 Lohja
T +358 50 468 7284
finlandsales@schaffner.com

France
Schaffner EMC S.A.S.
16-20 Rue Louis Rameau
95875 Bezons
T +33 1 34 34 30 60
f +33 1 39 47 02 28
francesales@schaffner.com

Germany
Schaffner Deutschland GmbH
Schoeplerlenstrasse 128
76185 Karlsruhe
T +49 721 56910
germanysales@schaffner.com

India
Schaffner India Pvt. Ltd
REGUS WORLD TRADE CENTRE
WTC, 22nd Floor Unit No 223B, Brigade Gateway Campus, 26/F, 1 Dr. Rajkumar Road Malledcharam (W)
560055 Bangalore
T +91 80 67935355
indiasales@schaffner.com

Italy
Schaffner EMC S.r.l.
Via Ticino, 30
20900 Monza (MB)
T +39 039 241 070
italysales@schaffner.com

Japan
Schaffner EMC K.K.
Taiju-Seimei Sangenjaya Bldg.
1-32-12, Kameum, Setagaya-ku
154-0011 Tokyo
T +81 3 5712 3650
f +81 3 5712 3651
japansales@schaffner.com
www.schaffner.jp

Singapore
Schaffner EMC Pte Ltd.
#05-09, Kg Ubi Ind. Estate
408705 Singapore
T +65 6377 3283
f +65 6377 3281
singaporesales@schaffner.com

Spain
Schaffner EMC España
Calle Calendula 93, Miniparc III, Edificio E
El Soto de Moraleja, Alcobendas
28109 Madrid
T +34 917 912 900
f +34 917 912 901
spainsales@schaffner.com

Sweden
Schaffner EMC AB
Ostermalmsgt 1
114-42 Stockholm
T +46 8 5050 2425
swedensales@schaffner.com
www.schaffner.com

Switzerland
Schaffner EMV AG
Industrie Nord
Nordstrasse 11e
4542 Luterbach
T +41 32 681 66 88
T +41 32 681 66 26
switzerlandsales@schaffner.com

Taiwan
Schaffner EMV Ltd.
20 Floor-2, No 97, Section 1, XinTai 5th Road
22175 Xizhi District New Taipei City
T +886 2 2697 5500
F +886 2 2697 5533
taiwansales@schaffner.com
www.schaffner.com.tw

Thailand
Schaffner EMC Co. Ltd.
Northern Region Industrial Estate
67 Moo 4 Tambon Ban Klang
Amphur Muang P.O. Box 14
51000 Lamphun
T +66 53 58 11 04
F +66 53 58 10 19
thailandsales@schaffner.com

United Kingdom
Schaffner Ltd.
1, Oakmede Place
Binfield
RG42 4JF Berkshire
T +44 118 9770070
F +44 118 9792969
uksales@schaffner.com

USA
Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey
T +1 732 225 9533
F +1 732 225 4789
usasales@schaffner.com
www.schaffnerusa.com

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