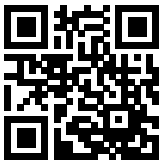


Performance EMI Filter



- Rated currents from 1 to 10 A
- Compact housing
- Optional overvoltage protection (Z type)

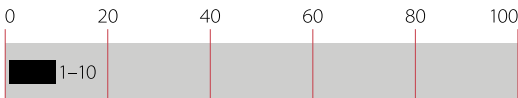


Performance indicators

Attenuation performance



Rated current [A]



Technical Specifications

|                                           |                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------|
| Maximum continuous operating voltage      | 250 VAC, 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<br>P → N 760 VAC for 2 sec<br>P → N 250 VAC for 2 sec (Z types) |
| Temperature range (operation and storage) | -25°C to +100°C (25/100/21)                                                               |
| Flammability corresponding to             | UL 94 V-2 or better                                                                       |
| Design corresponding to                   | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939                                                |
| Surge pulse protection (Z type)           | 2 kV, IEC 61000-4-5                                                                       |
| MTBF @ 40°C/230 V (Mil-HB-217F)           | 710,000 hours                                                                             |

Approvals & Compliances



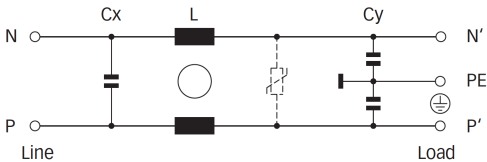
Features and Benefits

- FN 332 filters are designed for easy and fast chassis mounting
- FN 332 filters are also available with integrated surge pulse protection to safeguard sensitive electrical equipment
- All FN 332 single-phase filters provide a good attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Chokes with high saturation resistance and high inductivity
- Surge pulse protection
- Custom-specific versions on request

Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Power supplies
- Office automation equipment
- Datacom equipment
- Industrial equipment auxiliary supply

Typical electrical schematic



Filter Selection Table

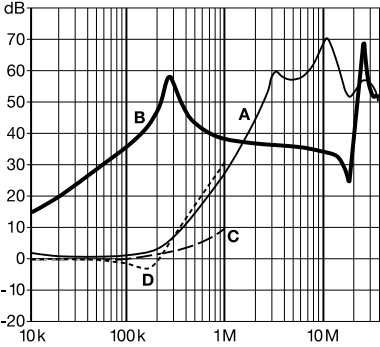
| Filter         | Rated current | Leakage current* | Inductance | Capacitance |      | Surge   | Energy     | Input/Output                                                                        | Weight |
|----------------|---------------|------------------|------------|-------------|------|---------|------------|-------------------------------------------------------------------------------------|--------|
|                | @ 40°C (25°C) | @ 230 VAC/50 Hz  | L          | Cx          | Cy   | current | absorption | connections                                                                         |        |
|                | [A]           | [µA]             | [mH]       | [nF]        | [nF] | [A]     | [J]        |  | [g]    |
| FN 332-1-05    | 1 (1.2)       | 340              | 10         | 15          | 2.2  |         |            | -05                                                                                 | 65     |
| FN 332-3-05    | 3 (3.6)       | 340              | 2          | 15          | 2.2  |         |            | -05                                                                                 | 65     |
| FN 332-6-05    | 6 (7.3)       | 340              | 0.8        | 15          | 2.2  |         |            | -05                                                                                 | 65     |
| FN 332-10 A-05 | 10 (12)       | 340              | 0.5        | 15          | 2.2  |         |            | -05                                                                                 | 70     |
|                |               |                  |            |             |      |         |            |                                                                                     |        |
| FN 332 Z-1-05  | 1 (1.2)       | 340              | 10         | 15          | 2.2  | 1200    | 26         | -05                                                                                 | 65     |
| FN 332 Z-3-05  | 3 (3.6)       | 340              | 2          | 15          | 2.2  | 1200    | 26         | -05                                                                                 | 65     |
| FN 332 Z-6-05  | 6 (7.3)       | 340              | 0.8        | 15          | 2.2  | 1200    | 26         | -05                                                                                 | 65     |
| FN 332 Z-10-05 | 10 (12)       | 340              | 0.5        | 15          | 2.2  | 1200    | 26         | -05                                                                                 | 70     |

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

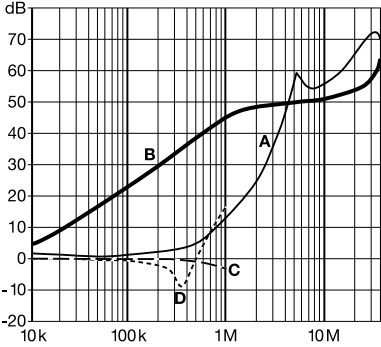
Typical Filter Attenuation

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

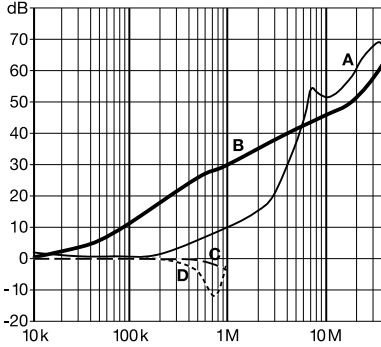
1 A types



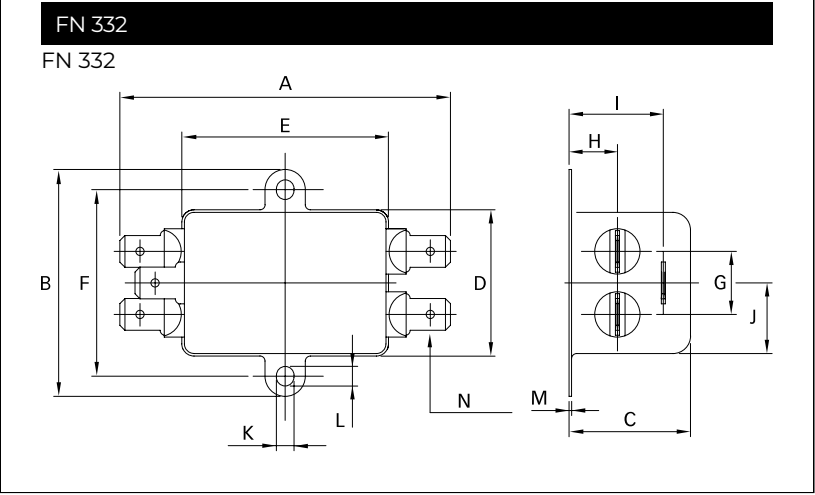
3 and 6 A types



10 A types



Mechanical Data



Dimensions

|   | 1 to 10 A types | Tolerances |
|---|-----------------|------------|
| A | 65.6            | ±0.5       |
| B | 45              | ±0.5       |
| C | 24.8            | ±0.5       |
| D | 28              | ±0.5       |
| E | 40              | ±0.5       |
| F | 37              | ±0.4       |
| G | 12.5            | ±0.2       |
| H | 9.6             | ±0.2       |
| I | 18.7            | ±0.5       |
| J | 14              | ±0.5       |
| K | 3.5             |            |
| L | 3.9             |            |
| M | 0.5             |            |
| N | 6.3 x 0.8       |            |

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

Headquarters, Global  
Innovation and  
Development

**Switzerland**  
**Schaffner Holding AG**  
Industrie Nord  
Nordstrasse 11e  
4542  
Luterbach  
+41 32 681 66 26  
[info@schaffner.com](mailto:info@schaffner.com)

To find your local partner within  
Schaffner's global network [schaffner.com](https://www.schaffner.com)

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Sales and Application  
Centers

**China**  
**Schaffner EMC Ltd. Shanghai**  
T20-3 C, No 565 Chuangye Road, Pudong district  
201201  
Shanghai  
+86 2138139500  
[cschina@schaffner.com](mailto:cschina@schaffner.com)

**Finland**  
**Schaffner Oy**  
Sauvonrinne 19 H  
8500  
Lohja  
+358 50 468 7284  
[finlandsales@schaffner.com](mailto:finlandsales@schaffner.com)

**France**  
**Schaffner EMC S.A.S.**  
16-20 Rue Louis Rameau  
95875  
Bezons  
+33 1 34 34 30 60  
[francesales@schaffner.com](mailto:francesales@schaffner.com)

**Germany**  
**Schaffner Deutschland GmbH**  
Schoemperlenstrasse 12B  
76185  
Karlsruhe  
+49 721 56910  
[germanysales@schaffner.com](mailto:germanysales@schaffner.com)

**India**  
**Schaffner India Pvt. Ltd**  
Regus World Trade Centre  
WTC, 22nd Floor Unit No 2238, Brigade Gateway Campus, 26/1, Dr. Rajkumar Road Malleshwaram (W)  
560055  
Bangalore  
+91 8067935355  
[indiasales@schaffner.com](mailto:indiasales@schaffner.com)

**Italy**  
**Schaffner EMC S.r.l.**  
Via Ticino, 30  
20900  
Monza (MB)  
+39 039 21 41 070  
[italysales@schaffner.com](mailto:italysales@schaffner.com)

**Japan**  
**Schaffner EMC K.K.**  
ISM Sangenjaya 7F  
1-32-12 Kamiuma, Setagaya-ku  
154-0011  
Tokyo  
+81 3 5712 3650  
[japansales@schaffner.com](mailto:japansales@schaffner.com)

**Singapore**  
**Schaffner EMC Pte Ltd.**  
Blk 3015A Ubi Road 1, #05-09, Kampong Ubi Industrial Estate  
408705  
Singapore  
+65 63773283  
[singaporesales@schaffner.com](mailto:singaporesales@schaffner.com)

**Spain**  
**Schaffner EMC España**  
Calle Caléndula 93, Miniparc III, Edificio E El Soto de Moraleja, Alcobendas  
28109  
Madrid  
+34 917 912 900  
[spainsales@schaffner.com](mailto:spainsales@schaffner.com)

**Sweden**  
**Schaffner EMC AB**  
Östermalmstrorg 1  
114 42  
Stockholm  
+46 8 5050 2425  
[swedensales@schaffner.com](mailto:swedensales@schaffner.com)

**Switzerland**  
**Schaffner EMV AG**  
Industrie Nord  
Nordstrasse 11e  
4542  
Luterbach  
+41 32 681 66 26  
[switzerlandsales@schaffner.com](mailto:switzerlandsales@schaffner.com)

**Taiwan**  
**Schaffner EMV Ltd.**  
U-Town  
20 Floor-2, No 97, Section 1, XinTai 5th Road, XiZhi District  
22175  
New Taipei City  
+886 226975500  
[taiwansales@schaffner.com](mailto:taiwansales@schaffner.com)

**Thailand**  
**Schaffner EMC Co. Ltd.**  
Sathorn Square Tower  
Room 3780, 37FL, 98 North-Sathorn Rd, Silom, Bangrak  
10500  
Bangkok  
+66 621056397  
[thailandsales@schaffner.com](mailto:thailandsales@schaffner.com)

**United Kingdom**  
**Schaffner Ltd.**  
1, Oakmede Place  
Terrace Road  
RG42 4JF  
Binfield  
+44 118 9770070  
[uksales@schaffner.com](mailto:uksales@schaffner.com)

**United States**  
**Schaffner EMC Inc.**  
52 Mayfield Avenue  
Edison, New Jersey  
+1 732 225 9533  
[usasales@schaffner.com](mailto:usasales@schaffner.com)