

Performance EMI Filter



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

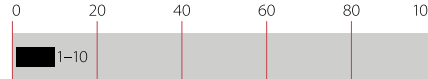


Performance indicators

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 P → N 760 VAC for 2 sec 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



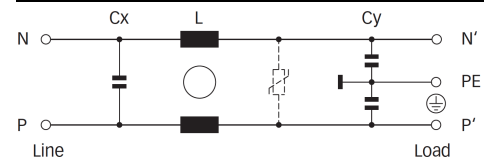
Features and benefits

- 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

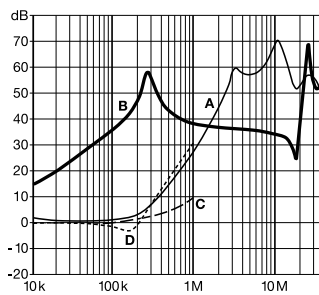
| Filter | Rated current @ 40°C (25°C) [A] | Leakage current* @ 230 VAC/50 Hz [μA] | Inductance L [mH] | Capacitance | | Surge current [A] | Energy absorption [J] | Input/Output connections  | Weight [g] |
|-----------------------|---------------------------------------|---|-------------------------|-------------|------------|-------------------------|-----------------------------|--|---------------|
| | | | | Cx [nF] | Cy [nF] | | | | |
| 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.

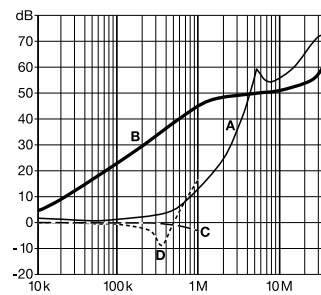
Typical filter attenuation

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

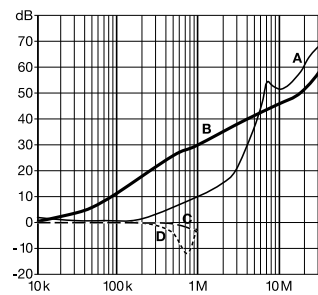
1 A types



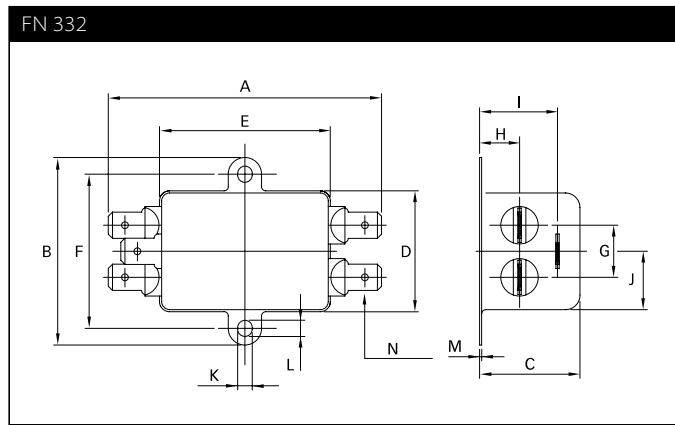
3 and 6 A types



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 to find more details on filter connectors



Headquarters, global innovation and development

Switzerland

Schaffner Group

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



Sales and application centers

China

Schaffner EMC Ltd. Shanghai

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

Finland

Schaffner Oy

Sauvonrinne 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

Schoemperlenstrasse 12B
76185 Karlsruhe
T +49 721 56910
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
T +91 80 67935355
indiasales@schaffner.com

Italy

Schaffner EMC S.r.l.

Via Ticino, 30
20900 Monza (MB)
T +39 039 21 41 070
italysales@schaffner.com

Japan

Schaffner EMC K.K.

Taiju-Seimei Sangenjaya Bldg.
1-32-12, Kamiyuma, 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 Caléndula 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

Östermalmstorg 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 22175
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 Muangng 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

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

© 2021 Schaffner Group

The content of this document has been carefully checked and understood. However, neither Schaffner nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Schaffner does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Swiss law and resulting disputes shall be settled by the courts at the place of business of Schaffner Holding AG. Latest publications and a complete disclaimer can be downloaded from the Schaffner website. All trademarks recognized.