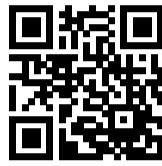


Performance EMI Filter



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

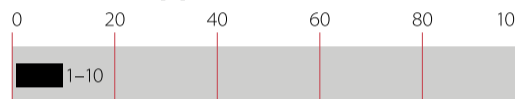


Performance indicators

Attenuation performance



Rated current [A]



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

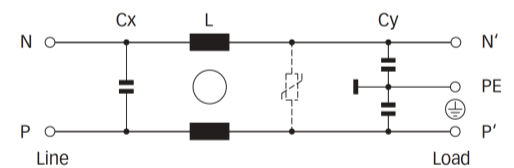
Technical Specifications

| | |
|--|---|
| Maximum continuous operating voltage | 250 VAC, 50/60 Hz |
| Nominal operating voltage | 230 VAC |
| Rated currents | 1 to 10 A @ 40°C |
| Operating frequency | DC to 400 Hz |
| 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) |
| Surge pulse protection (Z type) | 2 kV, IEC 61000-4-5 |
| Temperature range (operation and storage) | -25°C to +100°C (25/100/21) |
| Flammability corresponding to | UL 94 V-0 |
| Design corresponding to | UL 1283 (not for Z Version), CSA 22.2 No. 8 1986, IEC/EN 60939 |
| MTBF (Mil-HB-217F) | >710,000 h @ 40°C/230 V |

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) | Leakage current* @ 230 VAC/50 Hz | Inductance L | Capacitance | | Surge current | Energy absorption | Input/Output connections | Weight |
|-----------------------|--------------------------------|-------------------------------------|-----------------|-------------|------------|------------------|----------------------|-----------------------------|--------|
| | [A] | [µA] | [mH] | 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.

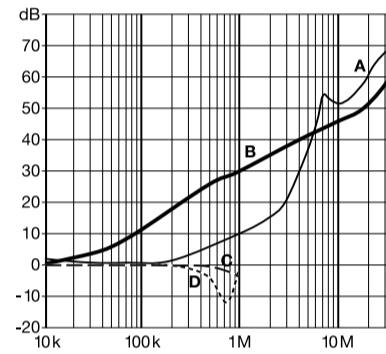
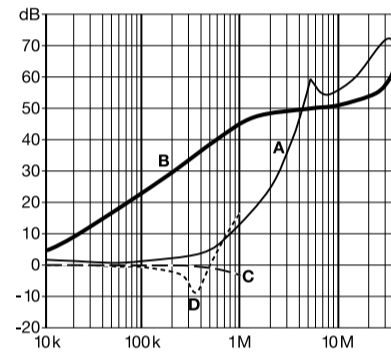
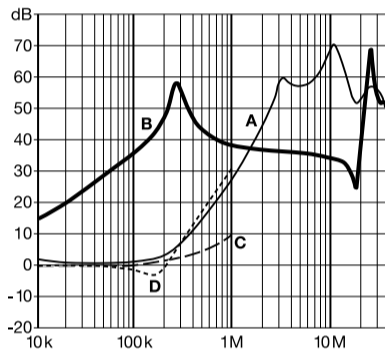
Typical Filter Attenuation

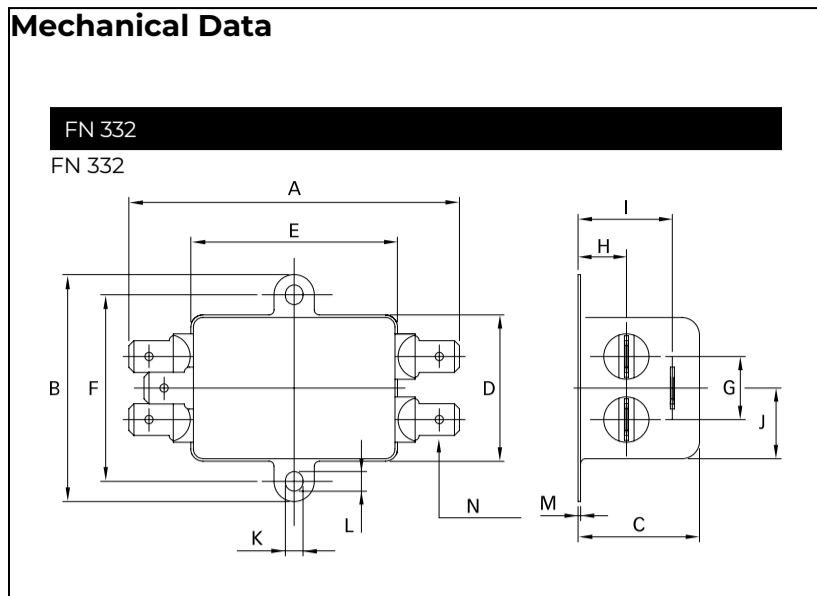
Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym

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 to: ISO 2768-m/EN 22768-m

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

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