

## Performance EMI Filter



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

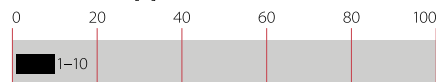


### Performance indicators

Attenuation performance



Rated current [A]



### Technical specifications

|                                                  |                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Maximum continuous operating voltage</b>      | 250 VAC, 50/60 Hz                                                                         |
| <b>Operating frequency</b>                       | DC to 400 Hz                                                                              |
| <b>Rated currents</b>                            | 1 to 10 A @ 40°C max.                                                                     |
| <b>High potential test voltage</b>               | 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) |
| <b>Temperature range (operation and storage)</b> | -25°C to +100°C (25/100/21)                                                               |
| <b>Flammability corresponding to</b>             | UL 94 V-2 or better                                                                       |
| <b>Design corresponding to</b>                   | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939                                                |
| <b>Surge pulse protection (Z type)</b>           | 2 kV, IEC 61000-4-5                                                                       |
| <b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>           | 710,000 hours                                                                             |

### Approvals



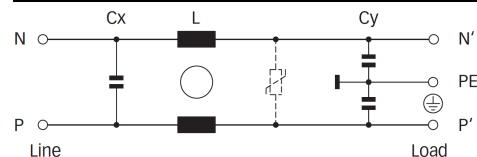
### Features and benefits

- 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
- Datcom equipment
- Industrial equipment auxiliary supply

### Typical electrical schematic



## Filter selection table

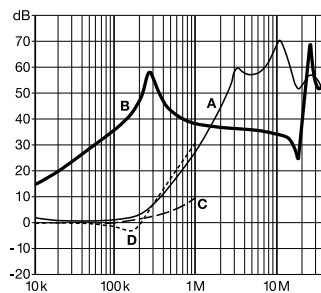
| Filter                | Rated current<br>@ 40°C (25°C) | Leakage current*<br>@ 230 VAC/50 Hz | Inductance<br>L | Capacitance |            | Surge<br>current | Energy<br>absorption | Input/Output<br>connections                                                         | Weight |
|-----------------------|--------------------------------|---------------------------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

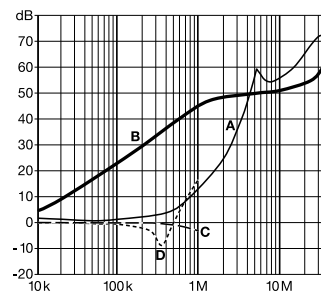
## Typical filter attenuation

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

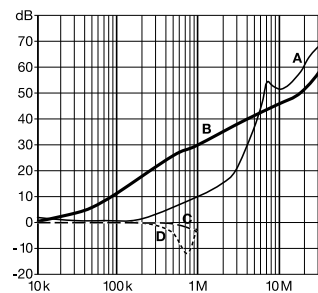
1 A types



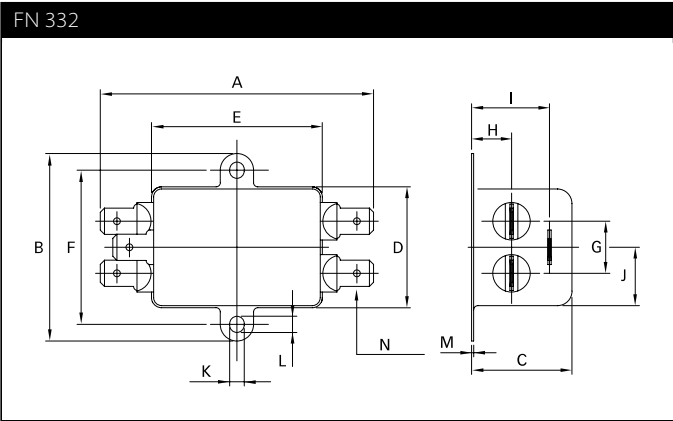
3 and 6 A types



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



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