



## Single-Phase Filters FN 343

### Performance EMI Filter

**SCHAFNER**  
energy efficiency and reliability



- Rated currents from 1 to 10A
- Dual-stage filter
- Compact housing
- Integrated earth line choke

#### Approvals



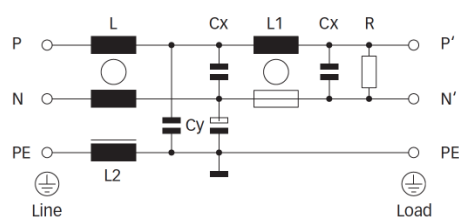
#### Technical specifications

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Maximum continuous operating voltage:      | 250VAC, 50/60Hz                                      |
| Operating frequency:                       | dc to 400Hz                                          |
| Rated currents:                            | 1 to 10 A @ 40°C max.                                |
| High potential test voltage:               | P -> PE 2000VAC for 2 sec<br>P -> N 760VAC for 2 sec |
| Temperature range (operation and storage): | -25°C to +100°C (25/100/21)                          |
| Flammability corresponding to:             | UL 94V-2 or better                                   |
| Design corresponding to:                   | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939           |
| MTBF @ 40°C/230V (Mil-HB-217F):            | 970,000 hours                                        |

#### Features and benefits

- FN 343 filters are designed for easy and fast chassis mounting.
- Increased attenuation performance based on dual-stage filter design and earth line choke.
- All FN 343 single-phase filters provide an excellent attenuation performance, based on chokes with high saturation and excellent thermal behavior.
- Faston connection.
- Integrated earth line choke.
- Compact design.
- Custom-specific versions on request.

#### Typical electrical schematic

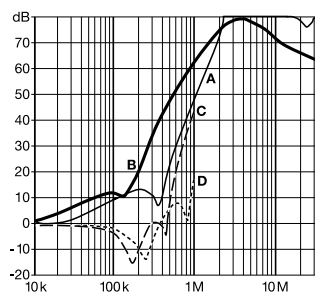


#### Typical applications

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

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

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



The technical drawing consists of two parts:

- Front View (Left):** Shows the top-down profile of the device. It features a central rectangular body with rounded corners and four mounting tabs on each long side. Dimensions labeled include:
  - A: Total height.
  - B: Total width.
  - E: Width of the central rectangular section.
  - F: Height of the central rectangular section.
  - D: Distance from the centerline to the outer edge of the mounting tabs.
  - K: Radius of the bottom corner.
  - L: Thickness of the base flange.
  - N: Diameter of the mounting holes.
- Side View (Right):** Shows the profile of the device from the side. It highlights the vertical stack of components. Dimensions labeled include:
  - H: Total height.
  - G: Height of the main sensor housing.
  - J: Height of the internal component below the sensor housing.
  - C: Diameter of the base flange.
  - M: Thickness of the base flange.

## Dimensions

All dimensions in mm; 1 inch = 25.4mm  
Tolerances according: ISO 2768-m / EN 22768-m

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