

# FN2010A-10-06

SAP Code: 813237



- Chassis mount
- 10 A EMC filter with fast-ons
- General
- 1 Phase

Buy article now



## Approvals & Compliances



## Features and Benefits

- FN 2010 filters are designed for easy and fast chassis mounting
- FN 2010 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2010 A versions with low capacitance to earth for safety critical applications with necessity for low leakage currents
- FN 2010 filters are also available as enhanced performance and DC optimized versions. With higher attenuation in very compact housing (M, N1,N types)
- All filters provide a general purpose conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- FN 2010 filters can be used to cover a broad range of usage and they offer a good size/ampereage ratio
- Various terminal options allow you to select the desired connection style

## Family Technical Specifications

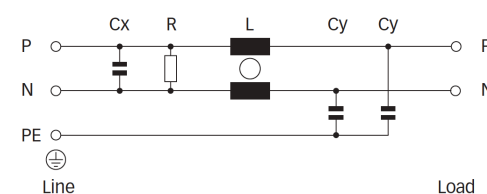
|  |   |
|--|---|
| <b>Rated voltage*</b>                            | 250 VAC, 50/60 Hz<br>250 VDC  |
| <b>Operating frequency</b>                       | DC to 400 Hz  |
| <b>Flammability corresponding to</b>             | Laces for -07 version: UL 94 VW-1<br>Terminal plastic for -06/-08 version: UL 94 V-0<br>Grommet for -07 version: UL 94 V-0  |
| <b>Overvoltage category</b>                      | II acc. IEC 60664-1   |
| <b>Pollution degree</b>                          | 2 acc. IEC 60664-1  |
| <b>Altitude</b>                                  | 2000m (above derating applies)**  |
| <b>Rated currents</b>                            | 10  |
| <b>High potential test voltage</b>               | P -> N 1100 VDC for 2 sec<br>P -> PE 2000 VAC for 2 sec (equiv. cap <88 nF)<br>P -> PE 2550 VDC for 2 sec (equiv. cap >88 nF)<br>P -> PE 2500 VAC for 2 sec (B types) |
| <b>Temperature range (operation and storage)</b> | -25 °C to +100 °C (25/100/21)**   |
| <b>Certified to</b>                              | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 (applies to AC and DC applications)  |

\* maximum RMS operating voltage at rated frequency or the maximum DC operating voltage \*\* for dedicated requests exceeding this specification (e.g. -40 °C or higher altitude) please contact your local Schaffner sales office

## Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Office automation equipment
- Datacom equipment

## Typical electrical schematic



## General Specification

|                          |            |
|--------------------------|------------|
| Voltage AC               | 250 (Volt) |
| Nominal Frequency        | 50         |
| Rated Current @ambient   | 10         |
| Ambient temperature [°C] | 40         |

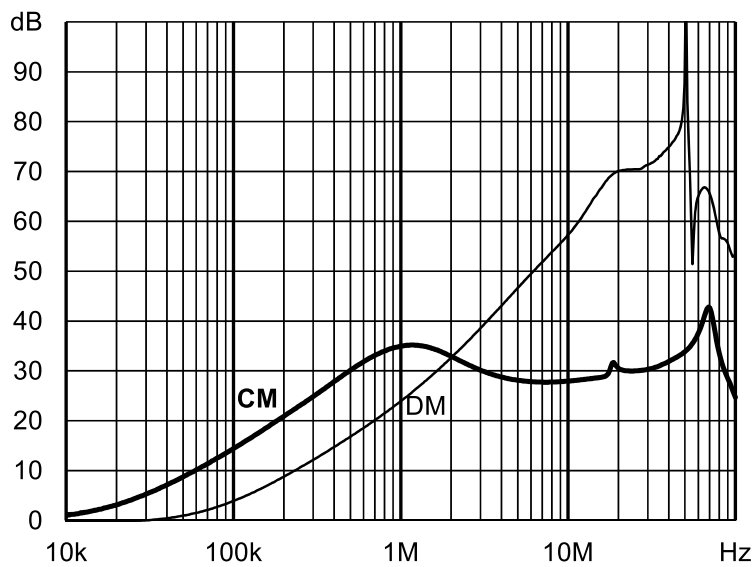
## Electric Specification

|                                  |                              |
|----------------------------------|------------------------------|
| Leakage current (IEC60939) [mA]  | 0.07                         |
| Leakage current (Schaffner) [mA] | 0.14                         |
| Input terminal                   | 06 - faston 6.3x0.8/sold lug |
| Resistance                       | 1000 (Kiloohm)               |

## Attenuation Specification

|                              |                  |
|------------------------------|------------------|
| CM attenuation @ 150kHz [dB] | 18 (Decibels)    |
| Inductance L1 [μH]           | 0.8 (Millihenry) |
| Capacitance Cx1 [μF]         | 0.1 (Microfarad) |
| Capacitance Cy1 [nF]         | 0.47 (Nanofarad) |

Attenuation graph

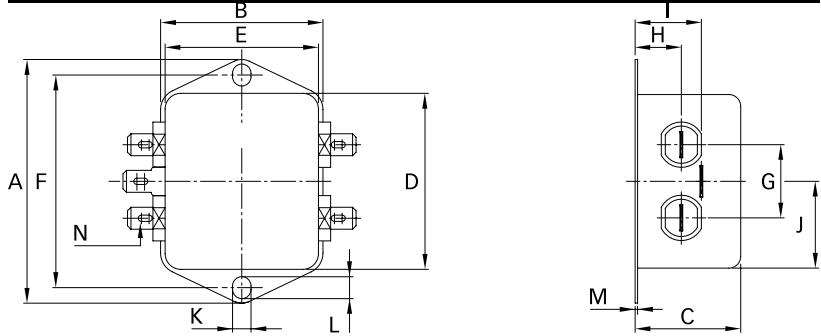


### Mechanic Specification

|                           |                       |
|---------------------------|-----------------------|
| Length [mm]               | 43.5                  |
| Width [mm]                | 32.5                  |
| Height [mm]               | 29.3                  |
| Volume [cm <sup>3</sup> ] | 41 (Cubic Centimeter) |
| NetWeight [g]             | 85 (Gram)             |

### Schaffner schemes

Mechanical Data Image



### Dimensions

|        |           |
|--------|-----------|
| A [mm] | 64        |
| B [mm] | 35        |
| C [mm] | 24.3      |
| D [mm] | 43.5      |
| E [mm] | 32.5      |
| F [mm] | 54        |
| G [mm] | 21        |
| H [mm] | 9.3       |
| I [mm] | 15.3      |
| J [mm] | 21.8      |
| K [mm] | 5.3       |
| L [mm] | 6.3       |
| M [mm] | 0.7       |
| N [mm] | 6.3 x 0.8 |
| O [mm] | 8.3       |
| P [mm] | 21.8      |