

FN2080-16-07

SAP Code: 800636



- Chassis mount
- 16 A EMC filter with wire leads
- General
- 1 Phase

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Family Technical Specifications

| | |
|--|--|
| Rated voltage* | 250 VAC, 50/60 Hz 250 VDC |
| Operating frequency | DC to 400 Hz |
| High potential test voltage | P → PE 2000 VAC for 2 sec P → PE 2500 VAC for 2 sec (B types) P → N 1100 VDC for 2 sec |
| Temperature range (operation and storage) | -25°C to +100°C (25/100/21)** |
| Certified to | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 (applies to AC and DC applications) |
| Flammability corresponding to | Laces for -07 version: UL 94 VW-1 Terminal plastic for -06/-08 version: UL 94 V-0 Grommet for -07 version: UL 94 V-0 |
| Design corresponding to | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 |
| Overvoltage category | II acc. IEC 60664-1 |
| Pollution degree | 2 acc. IEC 60664-1 |
| Altitude | 2000m (above derating applies)** |
| Rated currents | 16 |

* 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

Approvals & Compliances



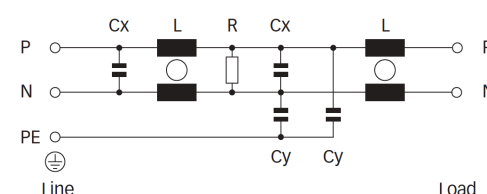
Features and Benefits

- FN 2080 two-stage filters are designed for easy and fast chassis mounting
- FN 2080 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2080 A version with low capacitance to earth for safety critical applications with necessity for low leakage currents
- All filters provide a high conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- FN 2080 two-stage filters are designed with good low frequency attenuation
- FN 2080 filters are also available as single-stage filters
- FN 2080 filters are also available with two common mode choke configuration (FN 2070 series)
- Various terminal options allow you to select the desired connection style

Typical Applications

- Electrical and electronic equipment
- Lighting applications (due to high differential mode inductance)
- Consumer goods
- Household equipment
- Building automation
- Industrial applications
- Machinery
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment
- Various noisy applications requiring good filter performance

Typical electrical schematic



General Specification

| | |
|--------------------------|------------|
| Voltage AC | 250 (Volt) |
| Nominal Frequency | 50 |
| Rated Current @ambient | 16 |
| Ambient temperature [°C] | 40 |

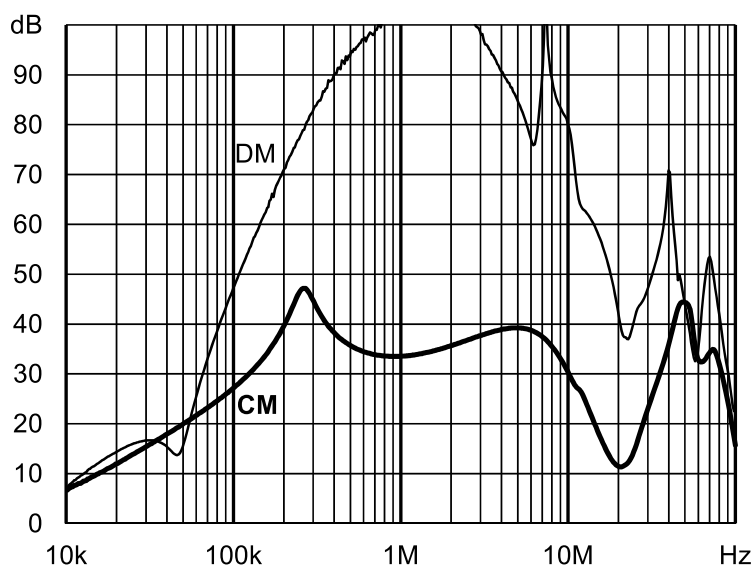
Electric Specification

| | |
|----------------------------------|--------------|
| Leakage current (IEC60939) [mA] | 0.66 |
| Leakage current (Schaffner) [mA] | 1.33 |
| Input terminal | 07 - wire |
| Output terminal | 07 - wire |
| Resistance | 220 (Kilohm) |

Attenuation Specification

| | |
|------------------------------|------------------|
| CM attenuation @ 150kHz [dB] | 28 (Decibels) |
| DM attenuation @ 150kHz [dB] | 29 (Decibels) |
| Inductance L1 [μH] | 2.8 (Millihenry) |
| Inductance L2 [μH] | 43 |
| Capacitance Cx1 [μF] | 1 (Microfarad) |
| Capacitance Cy1 [nF] | 4.7 (Nanofarad) |

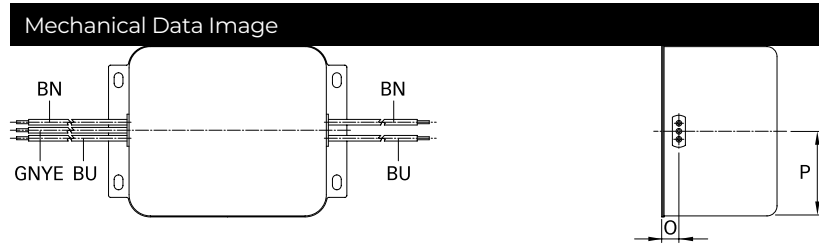
Attenuation graph



Mechanic Specification

| | |
|---------------------------|------------------------|
| Length [mm] | 98.5 |
| Width [mm] | 84.5 |
| Height [mm] | 57.6 |
| Volume [cm ³] | 479 (Cubic Centimeter) |
| NetWeight [g] | 1020 (Gram) |
| Power Loss [W] | 9 (Watt) |

Schaffner schemes



Dimensions

| | |
|--------|-----------|
| A [mm] | 119 |
| B [mm] | 85.5 |
| C [mm] | 57.6 |
| D [mm] | 98.5 |
| E [mm] | 84.5 |
| F [mm] | 109 |
| G [mm] | 40 |
| H [mm] | 15.6 |
| J [mm] | 42.25 |
| K [mm] | 4.4 |
| L [mm] | 7.4 |
| M [mm] | 1.2 |
| N [mm] | 6.3 × 0.8 |
| O [mm] | 8.6 |
| P [mm] | 42.25 |