

FN2030M-3-06

SAP Code: 817056



- Chassis mount
- 3 A EMC filter with fast-ons
- 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 |
| Rated currents | 3 |
| Surge pulse protection (Z type) | Helps compliance to IEC61000-4-5 (Differential Mode only) |
| High potential test voltage | P -> N 1100 VDC for 2 sec P -> PE 2000 VAC for 2 sec (equiv. cap <88 nF) P -> PE 2550 VDC for 2 sec (equiv. cap >88 nF) P -> PE 2500 VAC for 2 sec (B types) |
| 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 |
| Overvoltage category | II acc. IEC 60664-1 |
| Pollution degree | 2 acc. IEC 60664-1 |
| Altitude | 2000m (above derating applies)** |

* 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 2030 filters are designed for easy and fast chassis mounting
- FN 2030 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2030 A versions with low capacitance to earth for safety critical applications with a requirement for low leakage currents
- FN 2030 filters offer an optimized filter range for high performance AC and DC applications, in same compact size (M, N1 types)
- All filters provide an exceptional conducted attenuation performance, based on chokes with high permeable core material and excellent thermal behavior
- The higher inductivity versus amperage offers increased attenuation performance with same form factor compared to FN 2010 and FN 2020 filter series
- All FN 2030 filters can be delivered with optional surge pulse protection (Z type).
- Various terminal options allow you to select the desired connection style

Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment
- Various noisy applications requiring high filter performance

Typical electrical schematic



General Specification

| | |
|--------------------------|------------|
| Voltage AC | 250 (Volt) |
| Nominal Frequency | 60 |
| Rated Current @ambient | 3 |
| Ambient temperature [°C] | 40 |

Electric Specification

| | |
|----------------------------------|------------------------------|
| Leakage current (IEC60939) [mA] | 3.4 |
| Leakage current (Schaffner) [mA] | 6.68 |
| Input terminal | 06 - faston 6.3x0.8/sold lug |
| Output terminal | 06 - faston 6.3x0.8/sold lug |
| Resistance | 1000 (Kilohm) |

Attenuation Specification

| | |
|------------------------------|-------------------|
| CM attenuation @ 150kHz [dB] | 62 (Decibels) |
| DM attenuation @ 150kHz [dB] | 33 (Decibels) |
| Inductance L1 [µH] | 14 (Millihenry) |
| Capacitance Cx1 [µF] | 0.33 (Microfarad) |
| Capacitance Cy1 [nF] | 47 (Nanofarad) |

Mechanic Specification

| | |
|---------------------------|-----------------------|
| Length [mm] | 50.5 |
| Width [mm] | 44.5 |
| Height [mm] | 22.3 |
| Volume [cm ³] | 50 (Cubic Centimeter) |
| NetWeight [kg] | 110 (Gram) |
| Power Loss [W] | 2.2 (Watt) |

Schaffner schemes

Dimensions

| | |
|--------|-----------|
| A [mm] | 71 |
| B [mm] | 46.6 |
| C [mm] | 22.3 |
| D [mm] | 50.5 |
| E [mm] | 44.5 |
| F [mm] | 61 |
| G [mm] | 21 |
| H [mm] | 10.8 |
| I [mm] | 16.8 |
| J [mm] | 25.25 |
| 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] | 14 |