FN2030-10-07

SAP Code: 817022

- Chassis mount
- 10 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
Rated currents	10
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

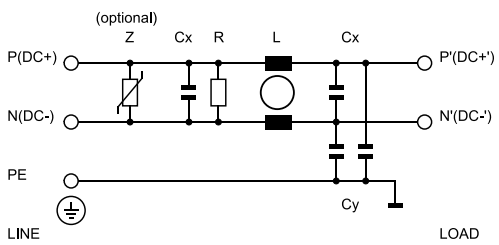
Features and Benefits

- 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	50
Rated Current @ambient	10
Ambient temperature [°C]	40

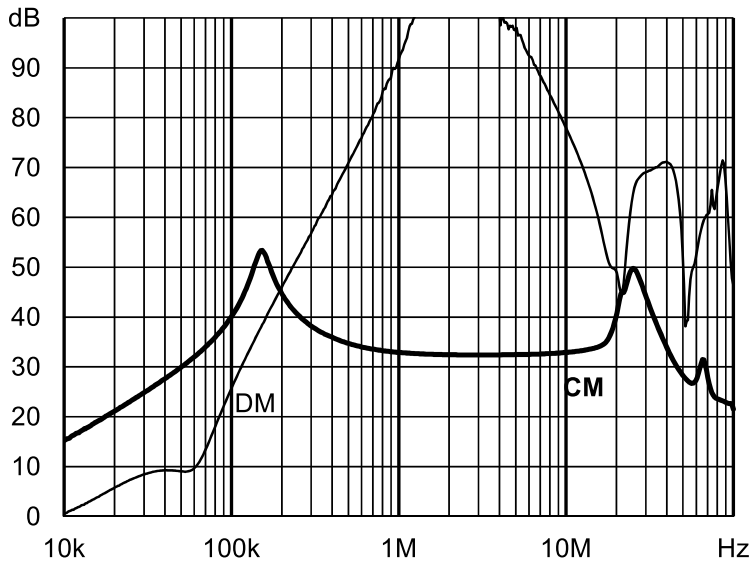
Electric Specification

Leakage current (IEC60939) [mA]	0.66
Leakage current (Schaffner) [mA]	1.33
Input terminal	07 - wire
Output terminal	07 - wire
Resistance	680 (Kiloohm)

Attenuation Specification

CM attenuation @ 150kHz [dB]	38 (Decibels)
DM attenuation @ 150kHz [dB]	32 (Decibels)
Inductance L1 [µH]	8 (Millihenry)
Capacitance Cx1 [µF]	0.47 (Microfarad)
Capacitance Cy1 [nF]	4.7 (Nanofarad)

Attenuation graph

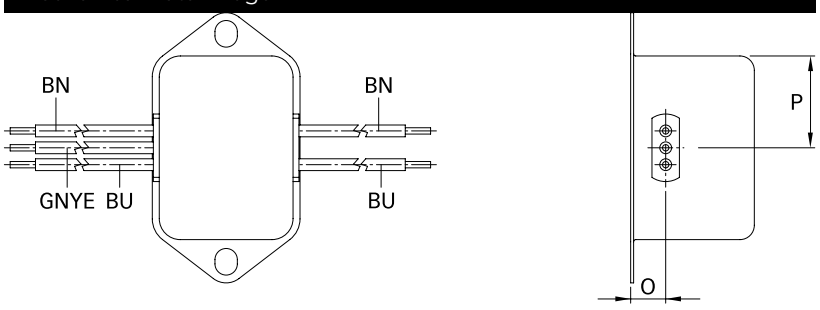


Mechanic Specification

Length [mm]	64.8
Width [mm]	49.8
Height [mm]	30.3
Volume [cm3]	98 (Cubic Centimeter)
NetWeight [kg]	190 (Gram)
Power Loss [W]	5.3 (Watt)

Schaffner schemes

Mechanical Data Image



Dimensions

A [mm]	85
B [mm]	54
C [mm]	30.3
D [mm]	64.8
E [mm]	49.8
F [mm]	75
G [mm]	27
H [mm]	12.3
I [mm]	20.8
J [mm]	19.9
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]	14.9