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FN2020-20-06

SAP Code: 800612

- Chassis mount
- 20 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
Altitude	2000m (above derating applies)**
Rated currents	20
High potential test voltage	P –> N 1100 VDC for 2 sec (30 and 60 A types) P –> PE 2000 VAC for 2 sec P –> PE 2500 VAC for 2 sec (B types) P –> N 760 VAC for 2 sec (1 to 20 A 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
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

* 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

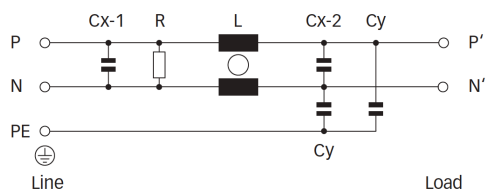
Features and Benefits

- FN 2020 filters are designed for easy and fast chassis mounting
- FN 2020 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2020 A versions with low capacitance to earth for safety critical applications with necessity for low leakage currents
- All filters provide a general purpose conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- FN 2020 filters can be used to cover a broad range of usage and they offer a good size/ amperage ratio
- FN 2020 filters are also available as two- stage filters (FN 2060, FN 2070 series) for more noisy environment
- Various terminal options allow you to select the desired connection style

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	20
Ambient temperature [°C]	40

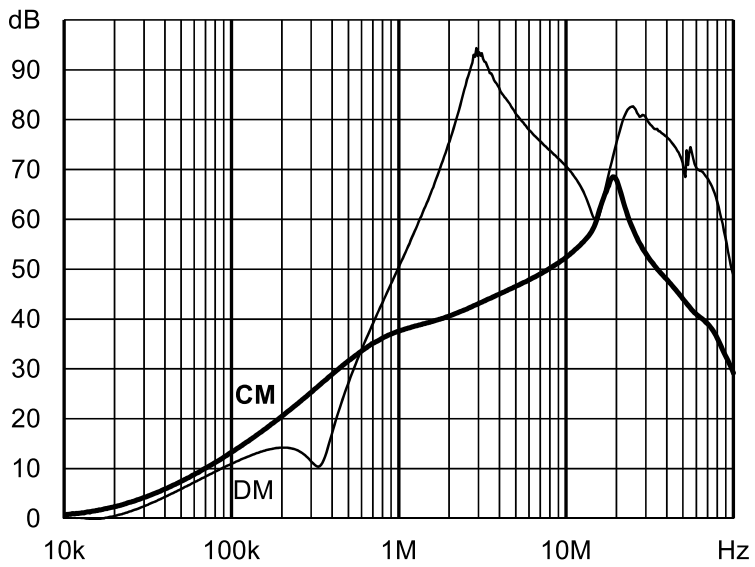
Electric Specification

Leakage current (IEC60939) [mA]	0.66
Leakage current (Schaffner) [mA]	1.33
Input terminal	06 - faston 6.3x0.8/sold lug
Output terminal	06 - faston 6.3x0.8/sold lug
Resistance	1000 (Kiloohm)

Attenuation Specification

CM attenuation @ 150kHz [dB]	15 (Decibels)
Inductance L1 [µH]	0.6 (Millihenry)
Capacitance Cx1 [µF]	0.15 (Microfarad)
Capacitance Cy1 [nF]	4.7 (Nanofarad)

Attenuation graph

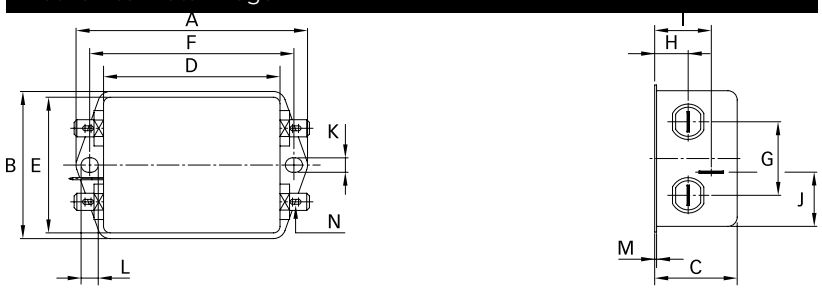


Mechanic Specification

Length [mm]	64.8
Width [mm]	49.8
Height [mm]	30.3
Volume [cm3]	98 (Cubic Centimeter)
NetWeight [kg]	170 (Gram)
Power Loss [W]	3.8 (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