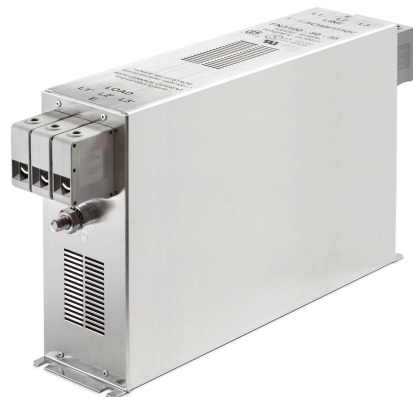


FN3100-80-35 800999



- Chassis mount
- 80 A EMC filter with terminal blocks
- 3 Phases

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Approvals & Compliances



(FN3100 up to 150 A)

Features and Benefits

- High performance filter for mainly industrial motor drive applications with significant interference levels
- Attenuation performance for Class B compliance in applications comprising multiple motor drives (e.g. machine tool with up to 8 driving axes with ~10 to 20 m motor cable each)
- Broadband filter performance with low frequency attenuation down to 10 kHz for reliable suppression of conducted interference
- Slim book-style shape requiring minimum cabinet space and allowing convenient installation right beside the motor drive
- Touch-safe terminal blocks provide unsurpassed electrical safety and contacting cross section according to EN 60204-1 installation standard
- For even better filter specifications, please consider FN 3120 H series from Schaffner

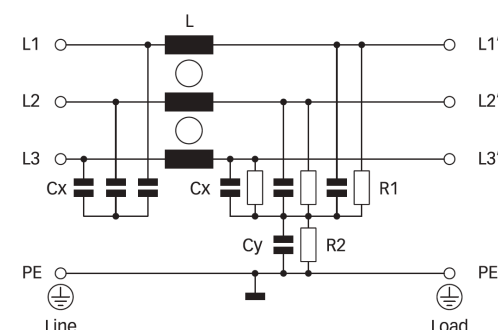
Family Technical Specifications

Maximum continuous operating voltage	3x 520/300 VAC
Operating frequency	DC to 60 Hz
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Flammability corresponding to	UL 94 V-2 or better
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
Rated currents	80
High potential test voltage	P → E 2750 VDC for 2 sec P → P 2250 VDC for 2 sec
Protection category	IP 20
Overload capability	4x rated current at switch on, 1.5x rated current for 1 minute, once per hour

Typical Applications

- Conventional motor drives with long motor cables and high interference levels
- Four quadrant motor drives and servo drives with energy regeneration mode (in combination with a suitable line reactor or LCL filter)
- Industrial applications comprising power conversion devices, such as machinery, machine tools and process automation equipment
- Uninterruptible power supplies (UPS)
- Converters for renewable energy generation
- Thyristor drives
- Elevators and cranes

Typical electrical schematic



General Specification

Voltage AC	520 (Volt)
Nominal Frequency	50
Rated Current @ambient	80
Ambient temperature [°C]	50

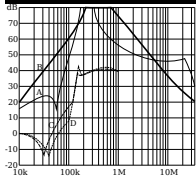
Electric Specification

Leakage current (IEC60939) [mA]	10
Leakage current (Schaffner) [mA]	411
Input terminal	35 - STB50 50mm2
Output terminal	35 - STB50 50mm2

Attenuation Specification

CM attenuation @ 150kHz [dB]	75 (Decibels)
DM attenuation @ 150kHz [dB]	30 (Decibels)

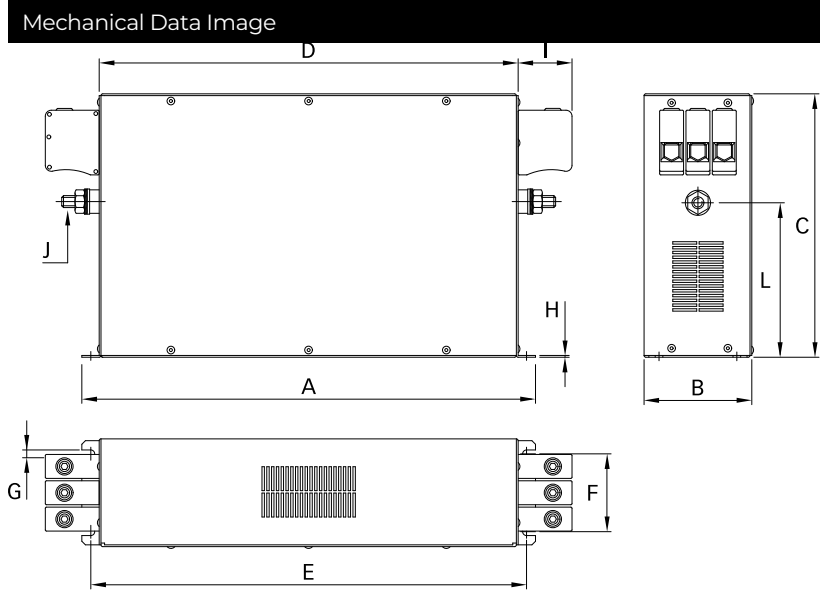
Attenuation graph



Mechanic Specification

Length [mm]	440
Width [mm]	90
Height [mm]	220
Volume [cm ³]	8712 (Cubic Centimeter)
NetWeight [kg]	4950 (Gram)
Power Loss [W]	25.9 (Watt)

Schaffner schemes



Dimensions

A [mm]	379
B [mm]	90
C [mm]	220
D [mm]	350
E [mm]	364
F [mm]	65
G [mm]	6.5
H [mm]	1.5
I [mm]	45
J [mm]	M10
L [mm]	129