

FN 9280 & FN9290 Series IEC Power Entry Modules



Schaffner Group

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FN9280 & FN9290 Series: Features



Approvals







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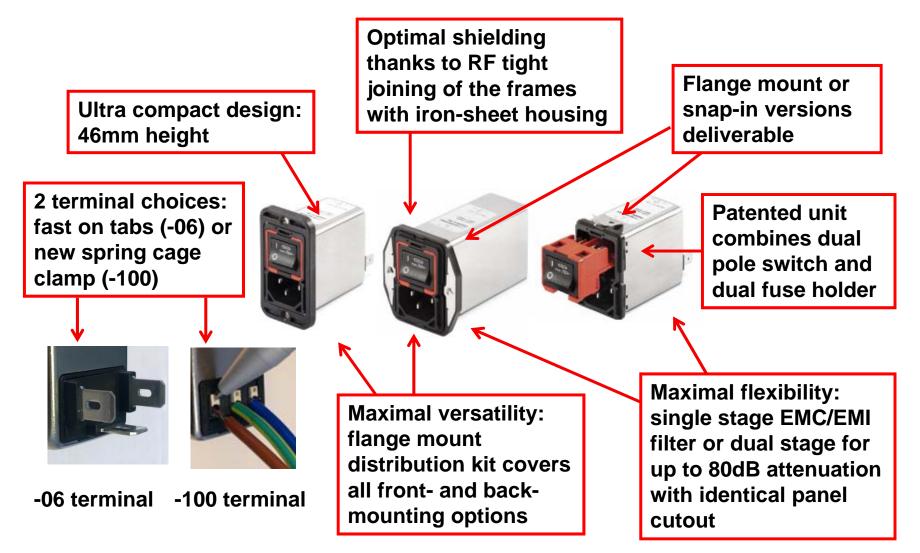
RoHS

- UL, CSA, ENEC and CQC approvals for worldwide application
- FN 9280 with single stage filter
- FN9290 with dual stage filter
- Ultra compact design
- Rated currents from 1A to 10A
- Dual fuse holder
- 2-pole rocker switch
- Good attenuation performance
- Faston or spring cage terminals

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FN9280 & FN9290 Series: The New IEC Power Module Families



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FN9280 & FN9289 Series: Ultra Compact Design

- Best in class design with only 46mm height
- Excellent shielding with sheet-metal-enclosed housing
- Improved filter performance
- Flange mount (FN9280) or snap-in (FN9289) versions



comparison FN9282 vs. FN282



comparison FN9289 vs. FN286

FN9280 & FN9290 Series: New Patented Mounting Flanges



Flange Mount Distribution Kit

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Scope of delivery:

- 1 filter, 2 frames, 2 self tapping screws and 2 washers for rear mounting cover 4 flange mount versions:
- Front mounting
- Rear mounting
- Mounting holes top/bottom
- Mounting holes left/right





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FN9280 & FN9290 Series: New Patented Plug-In Unit



High quality dual pole switch and dual fuse holder combined in one unit

Extra safe dual fuse holder





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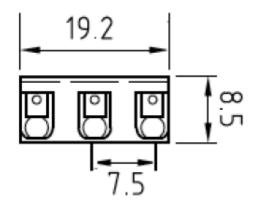
FN9280 & FN9290 Series: New Spring Cage Clamp Terminal (-100)

- Schaffner introduces with the spring cage clamp a new terminal for IEC power entry modules
- Clamping range 0.20 1.6 mm² (AWG24 - AWG16) for solid or flexible wire
- Complies with protection level IP20



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FN9280 Series: Filter Versions

Standard Version: FN9280 series

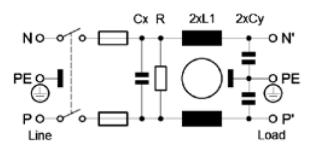
- Proven single stage EMC/EMI filter with good attenuation performance
- Integrated bleed resistor to cover all safety standards
- High quality dual pole line switch
- X- and Y- caps designed to comply with all safety standards
- Medical Version (B) without Y- caps

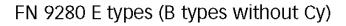
Optional Version: FN9280E series

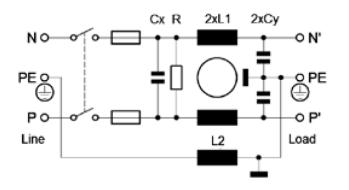
 Integrated earth line choke to suppress earth ground loops and asymmetric noise

Typical electrical schematic

FN 9280 Standard types (B types without Cy)







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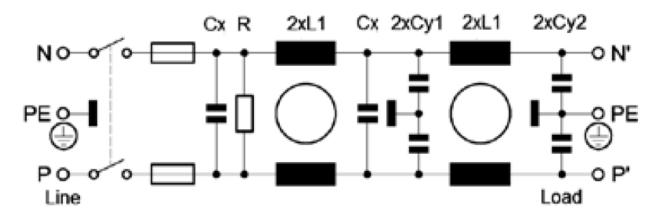
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FN9290 Series: High Performance EMC/EMI Filters

- Dual stage EMC EMI filter with up to 80dB attenuation
- Safety and low leakage current design identical with FN9280 series
- Medical Version (B) without Y- caps

FN 9290 Standard types (B types without Cy)



FN9280 & FN9290 Series: Maximal Flexibility

- All series with identical cutout
- All series with identical mounting possibilities
- All series with identical terminal choice
- Large variety enables fast EMC system approval with standard filter program



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FN9280 FN9280B (short version)

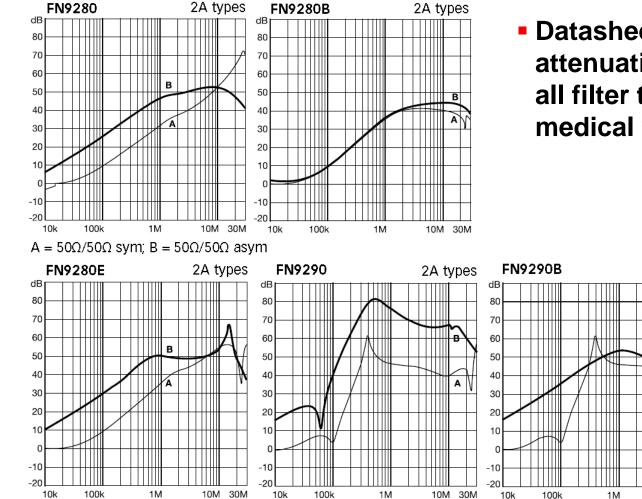
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FN9280E FN9280BE FN9290 FN9290B (long version)

FN9280 & FN9290 Series: EMC design support

Typical filter attenuation



 Datasheet with attenuation curves of all filter types including medical versions

2A types

Α

в

10M 30M

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FN9280 & FN9290 series: Typical Applications



 Portable electrical and electric equipment

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- High end consumer goods
- EDP and office equipment
- Single phase power supplies
- Switch mode power supplies
- Test and measurement equipment
- Medical electrical devices (MD)
- In-Vitro-Diagnostic devices (IVD)



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