

General Purpose Power Entry Module with Fuses



- Rated currents up to 10A
- For one or two fuses
- Optional safety version (A type)
- Optional medical versions (B type) according to IEC/EN 60601-1
- Snap-in versions (S type)

Approvals



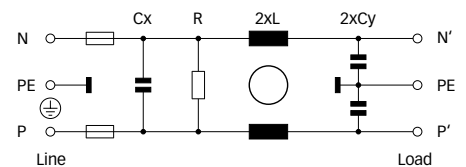
ROHS

Technical specifications

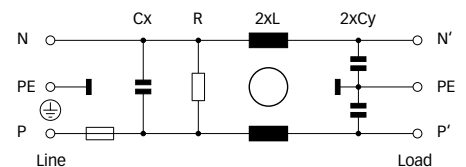
| | |
|--|---|
| Maximum continuous operating voltage: | 250VAC, 50/60Hz |
| Operating frequency: | dc to 400Hz |
| Rated currents: | 1 to 10A @ 40°C max. |
| High potential test voltage: | P → PE 2000VAC for 2 sec (standard types) P → PE 2500VAC for 2 sec (B types) P → N 760VAC for 2 sec (standard types) P → N 1700VDC for 2 sec (B types) |
| Protection category: | IP40 according to IEC 60529 |
| Temperature range (operation and storage): | -25°C to +85°C (25/85/21) |
| Design corresponding to: | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 |
| Flammability corresponding to: | UL 94V-2 or better |
| MTBF @ 40°C/230V (Mil-HB-217F): | 2,200,000 hours |
| Fuse holder: | 1 or 2 fuses (Ø5 x 20mm) |

Typical electrical schematic

FN 9260 (B types without Y-capacitors)



FN 261



The FN 9260 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and fuses in a small form factor. Choosing FN 9260 product line brings you rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings, output connections, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

Features and benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- B types comply with the requirements of IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing.
- Versions up to 10A are available with fuse holder for one or two fuses.
- Custom-specific versions are available on request.

Typical applications

- Portable electrical and electronic equipment
- Medical equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

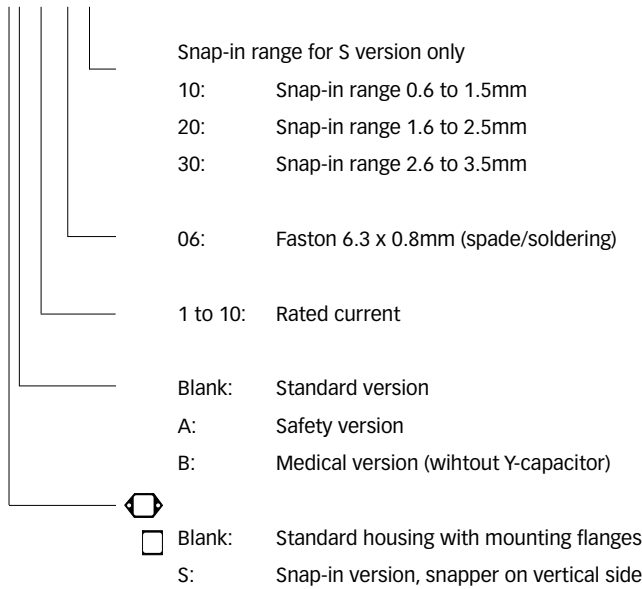
Filter selection table

| Filter | Rated current @ 40°C (25°C) | Leakage current* @ 230VAC/50Hz | Inductance L | Capacitance | | Resistance R | Input/Output connections | Fuses [Qty] | Weight [g] |
|-------------------|--------------------------------|-----------------------------------|-----------------|-------------|------------|-----------------|-----------------------------|----------------|---------------|
| | [A] | [μA] | [mH] | Cx [μF] | Cy [nF] | [kΩ] | | | |
| FN 9260x-1-06-y | 1 (1.2) | 373 | 5.3 | 0.1 | 2.2 | 1000 | -06 | 2 | 55 |
| FN 9260x-2-06-y | 2 (2.3) | 373 | 2.7 | 0.1 | 2.2 | 1000 | -06 | 2 | 55 |
| FN 9260x-4-06-y | 4 (4.6) | 373 | 1.0 | 0.1 | 2.2 | 1000 | -06 | 2 | 55 |
| FN 9260x-6-06-y | 6 (6.9) | 373 | 0.3 | 0.1 | 2.2 | 1000 | -06 | 2 | 55 |
| FN 9260x-10-06-y | 10 (11.5) | 373 | 0.2 | 0.1 | 2.2 | 1000 | -06 | 2 | 55 |
| FN 9260xA1-1-06-y | 1 (1.2) | 37 | 5.3 | 0.1 | 0.22 | 1000 | -06 | 2 | 55 |
| FN 9260xA-2-06-y | 2 (2.3) | 74 | 2.7 | 0.1 | 0.47 | 1000 | -06 | 2 | 55 |
| FN 9260xA-4-06-y | 4 (4.6) | 74 | 1.0 | 0.1 | 0.47 | 1000 | -06 | 2 | 55 |
| FN 9260xA-6-06-y | 6 (6.9) | 74 | 0.3 | 0.1 | 0.47 | 1000 | -06 | 2 | 55 |
| FN 9260xA-10-06-y | 10 (11.5) | 74 | 0.2 | 0.1 | 0.47 | 1000 | -06 | 2 | 55 |
| FN 9260xB-1-06-y | 1 (1.2) | 2 | 5.3 | 0.1 | | 1000 | -06 | 2 | 55 |
| FN 9260xB-2-06-y | 2 (2.3) | 2 | 2.7 | 0.1 | | 1000 | -06 | 2 | 55 |
| FN 9260xB-4-06-y | 4 (4.6) | 2 | 1.0 | 0.1 | | 1000 | -06 | 2 | 55 |
| FN 9260xB-6-06-y | 6 (6.9) | 2 | 0.3 | 0.1 | | 1000 | -06 | 2 | 55 |
| FN 9260xB-10-06-y | 10 (11.5) | 2 | 0.2 | 0.1 | | 1000 | -06 | 2 | 55 |
| FN 261x-1-06-y | 1 (1.2) | 373 | 5.3 | 0.1 | 2.2 | 1000 | -06 | 1 | 55 |
| FN 261x-2-06-y | 2 (2.3) | 373 | 2.7 | 0.1 | 2.2 | 1000 | -06 | 1 | 55 |
| FN 261x-4-06-y | 4 (4.6) | 373 | 1.0 | 0.1 | 2.2 | 1000 | -06 | 1 | 55 |
| FN 261x-6-06-y | 6 (6.9) | 373 | 0.3 | 0.1 | 2.2 | 1000 | -06 | 1 | 55 |
| FN 261x-10-06-y | 10 (11.5) | 373 | 0.2 | 0.1 | 2.2 | 1000 | -06 | 1 | 55 |

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

Product selector

FN 9260xx-yy-yy-y

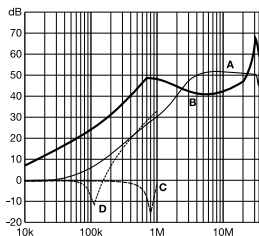


For example: FN 9260-1-06-10, FN 9260SB-10-06-20, FN 261S-6-06-30

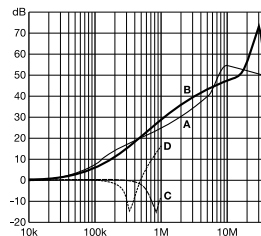
Typical filter attenuation

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym; C = 0.1Ω/100Ω sym; D = 100Ω/0.1Ω sym

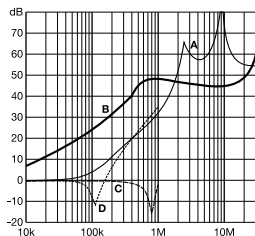
FN 9260: 1 to 4A types



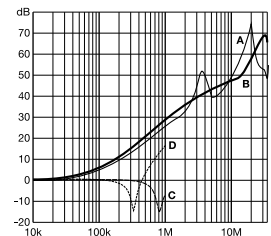
FN 9260: 6 and 10A types



FN 261: 1 to 4A types

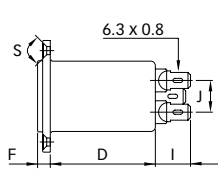
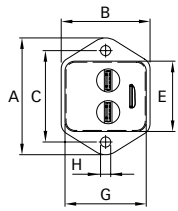


FN 261: 6 and 10A types

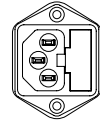


Mechanical data

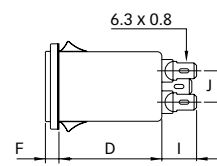
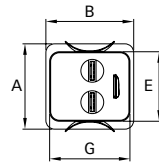
FN 9260 / FN 261



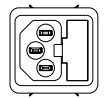
IEC plug type
C14



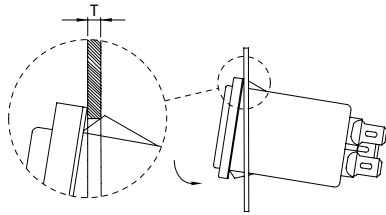
FN 9260S / FN 261S



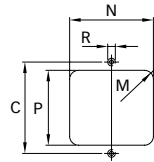
IEC plug type
C14



Installation



Panel cut out



Dimensions

| | FN 9260 FN 261 | FN 9260S FN 261S | Tolerances |
|----|-------------------|---------------------|------------|
| A | 46 | 34 | ±0.3 |
| B | 35 | 35 | ±0.3 |
| C | 36 | | ±0.3 |
| D | 41 | 41 | ±0.3 |
| E | 27.8 | 27.8 | +0.3/-0 |
| F | 5.5 | 5.5 | ±0.3 |
| G | 32 | 32 | +0.3/-0 |
| H | Ø3.2 | | ±0.1 |
| I | 13.8 | 13.8 | |
| J | 12.5 | 12.5 | ±0.3 |
| M | R ≤ 3.5 | R ≤ 3.5 | |
| N | 33 | 33 | +0.3/-0 |
| P | 29 | 29.5 | ±0.3 |
| R | M3 | | |
| S | 90° | | |
| T* | | 0.6 - 1.5 | |
| T* | | 1.6 - 2.5 | |
| T* | | 2.6 - 3.5 | |

* For selecting the panel thickness, please refer to the filter selector table.

All dimensions in mm; 1 inch = 25.4mm

Tolerances according: ISO 2768-m / EN 22768-m

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