

# General Purpose Power Entry Module with Mains Switch



- | Rated currents up to 10A
- | 1-pole rocker switch
- | Snap-in versions (S and S1 type)
- | Compact to fit 1U rack size



### Approvals



### RoHS

(CQC except HI-types)

### Performance indicators

#### Attenuation performance



#### Rated current [A]



The FN9263 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and a mains switch in a small form factor. Choosing the FN9263 product line brings you the 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 and mounting possibilities 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.
- | Rear/front or snap-in mounting.
- | Small compact housing fitting 1U rack applications.
- | Versions up to 10A are available with 1 pole rocker switch.
- | Custom-specific versions are available on request.

### Technical specifications

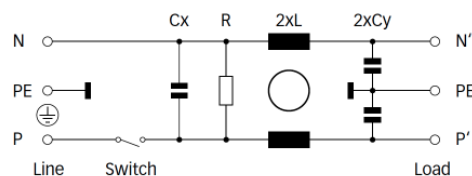
|   |  |
|---|--|
| <b>Maximum continuous operating voltage</b>       | 250 VAC, 50/60 Hz  |
| <b>Operating frequency</b>                        | 50 to 400 Hz   |
| <b>Rated currents</b>                             | 1 to 10 A @ 40 °C max.   |
| <b>High potential test voltage for capacitors</b> | P → PE 2000 VAC for 2 sec<br>P → N 760 VAC for 2 sec                       |
| <b>Protection category</b>                        | IP40 according to IEC 60529  |
| <b>Temperature range (operation and storage)</b>  | -25 °C to +85 °C (25/85/21)  |
| <b>Design corresponding to</b>                    | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939                                 |
| <b>Flammability corresponding to</b>              | UL 94 V-2 or better  |
| <b>MTBF @ 40°C/230V (Mil-HB-217F)</b>             | 6,500,000 hours  |
| <b>Rocker switch description</b>                  |  |
| <b>Function</b>                                   | 1-pole, dark not illuminated<br>Marking I - 0                              |
| <b>Electrical specifications</b>                  | Inrush current 78 A<br>10,000 on-off operations according to UL 1054, TV 5 |
| <b>Switch ratings</b>                             |  |
| <b>Europe (ENEC)</b>                              | 10 A (4 A), 250 VAC*   |
| <b>USA (UL)</b>                                   | 10 A, 125 VAC; 8 A, 250 VAC; 1/4 HP  |
| <b>Canada (CSA)</b>                               | 10 A, 250 VAC; 1/4 HP  |

\* Value in () relates to the inductive current charge:  $\cos \varphi = 0.65$


### 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




### Filter selection table


| Filter          | Rated current   | Leakage current* | Inductance | Capacitance |      | Resistance | Output connections  | Weight |
|-----------------|-----------------|------------------|------------|-------------|------|------------|---|--------|
|                 | @ 40 °C (25 °C) | @ 230 VAC/50 Hz  | L          | Cx          | Cy   | R          |   |        |
|                 | [A]             | [µA]             | [mH]       | [µF]        | [nF] | [kΩ]       |  | [g]    |
| FN9263x-1-06-y  | 1 (1.2)         | 373              | 5.3        | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-2-06-y  | 2 (2.3)         | 373              | 2.7        | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-3-06-y  | 3 (3.5)         | 373              | 2          | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-4-06-y  | 4 (4.6)         | 373              | 1          | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-6-06-y  | 6 (6.9)         | 373              | 0.3        | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-8-06-y  | 8 (9.2)         | 373              | 0.25       | 0.1         | 2.2  | 1000       | -06   | 55     |
| FN9263x-10-06-y | 10 (11.5)       | 373              | 0.2        | 0.1         | 2.2  | 1000       | -06   | 55     |

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

**Product selector**

FN9263x-yy-yy-y



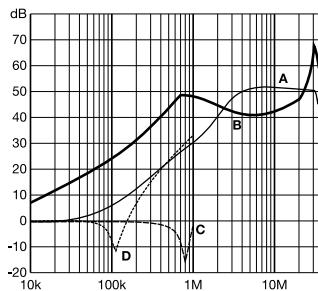
- Snap-in range for S version only
  - Blank: Snap-in range 0.6 to 1.5mm
  - 20: Snap-in range 1.6 to 2.5mm
  - 30: Snap-in range 2.6 to 3.5mm
- 06: Faston 6.3 x 0.8mm (spade/soldering)
- 1 to 10: Rated current
-  Blank: Standard housing with mounting flanges
  - S: Snap-in version, snapper on vertical side
  - S1: Snap-in version, snapper on horizontal side

For example: FN 9263-1, FN 9263S-10-06-20, FN 9263S1-6-06-30

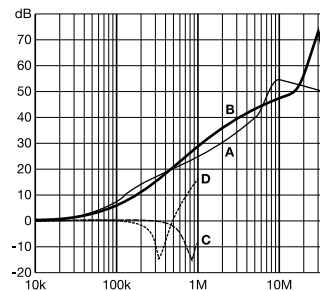
### Typical filter attenuation

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

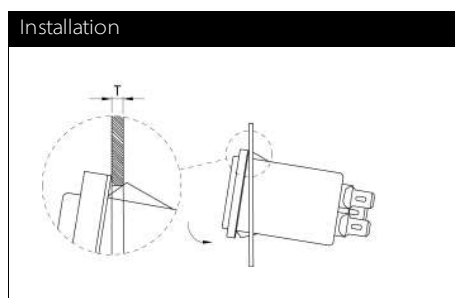
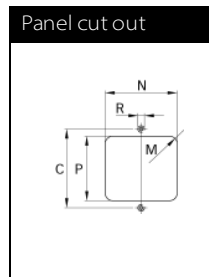
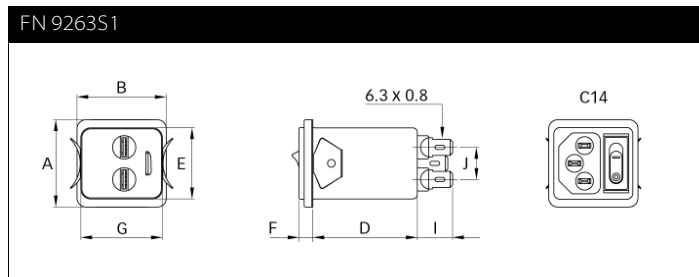
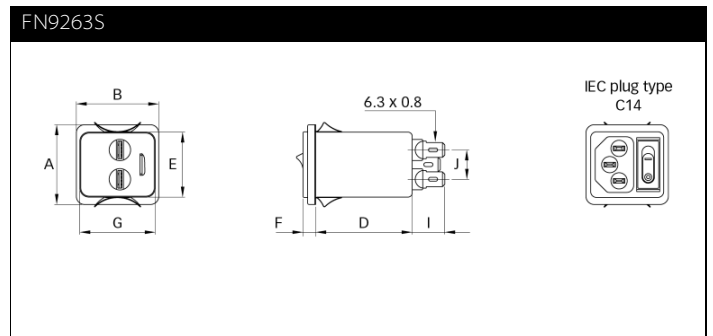
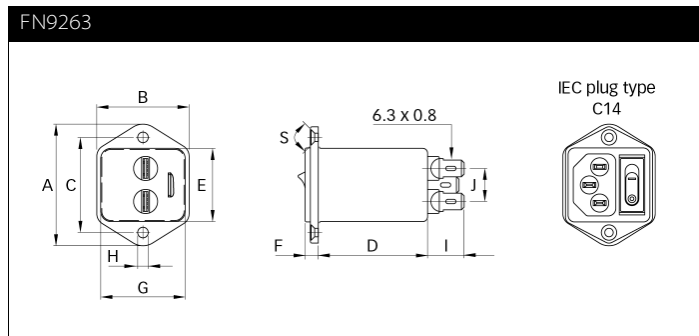
1 to 4 A types



6 to 10 A types



## Mechanical data



## Dimensions

|           | <b>FN 9263</b> | <b>FN 9263S</b> | <b>FN 9263S1</b> | <b>Tolerances</b> |
|-----------|----------------|-----------------|------------------|-------------------|
| <b>A</b>  | 46             | 34              | 34               | ±0.3              |
| <b>B</b>  | 35             | 35              | 35               |                   |
| <b>C</b>  | 36             |                 |                  |                   |
| <b>D</b>  | 41             | 41              | 41               | ±0.3              |
| <b>E</b>  | 27.9           | 27.9            | 27.9             | +0.2/-0           |
| <b>F</b>  | 5.5            | 5.5             | 5.5              | ±0.3              |
| <b>G</b>  | 32.2           | 32.2            | 32.2             | +0/-0.2           |
| <b>H</b>  | ∅ 3.3          |                 |                  | ±0.1              |
| <b>I</b>  | 13.8           | 13.8            | 13.8             |                   |
| <b>J</b>  | 12.5           | 12.5            | 12.5             | ±0.3              |
| <b>M</b>  | R ≤ 3.5        | R ≤ 3.5         | R ≤ 3.5          |                   |
| <b>N</b>  | 33.2           | 32.6            | 33.3             | ±0.1              |
| <b>P</b>  | 29.2           | 29.0            | 28.3             | ±0.1              |
| <b>R</b>  | M3             |                 |                  |                   |
| <b>S</b>  | 90°            |                 |                  |                   |
| <b>T*</b> |                | 0.6-1.5         | 0.6-1.5          |                   |
| <b>T*</b> |                | 1.6-2.5         | 1.6-2.5          |                   |
| <b>T*</b> |                | 2.6-3.5         | 2.6-3.5          |                   |

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

All dimensions in mm; 1 inch = 25.4 mm  
Tolerances according to: ISO 2768-m / EN 22768-m

Please visit [www.schaffner.com](http://www.schaffner.com) to find more details on filter connections.



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