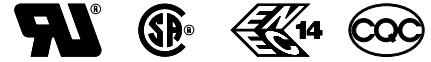


General Purpose Power Entry Module with Mains Switch



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

Approvals



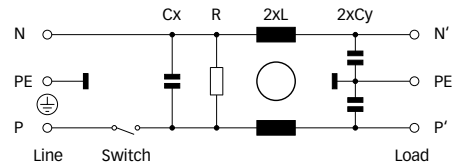
ROHS

Technical specifications

| | |
|---|---|
| Maximum continuous operating voltage: | 250VAC, 50/60Hz |
| Operating frequency: | 50 to 400Hz |
| Rated currents: | 1 to 10A @ 40°C max. |
| High potential test voltage for capacitors: | P → PE 2000VAC for 2 sec P → N 760VAC for 2 sec |
| 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): | 6,500,000 hours |
| Rocker switch description: | |
| Function: | 1-pole, dark not illuminated Marking I - 0 |
| Electrical specifications: | |
| | Inrush current 78A 10,000 on-off operations according to UL 1054, TV 5 |
| Switch ratings: | |
| USA (UL): | 10A, 125VAC; 8A, 250VAC; 1/4HP |
| Canada (CSA): | 10A, 250VAC; 1/4HP |
| Europe (ENEC): | 10A (4A), 250VAC* |

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

Typical electrical schematic



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.

Typical applications

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

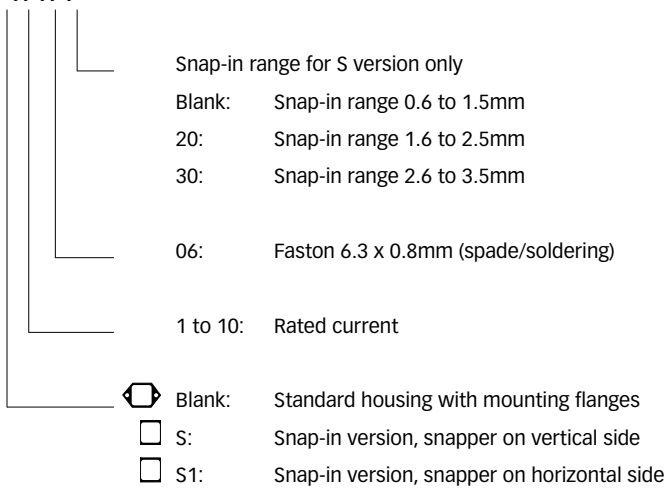
Filter selection table

| Filter | Rated current @ 40°C (25°C) | Leakage current* @ 250VAC/50Hz | Inductance L | Capacitance Cx Cy | | Resistance R | Output connections  | Weight [g] |
|-----------------|--------------------------------|-----------------------------------|-----------------|----------------------|------|-----------------|---|---------------|
| | [A] | [µA] | [mH] | [µF] | [nF] | [kΩ] | | |
| 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

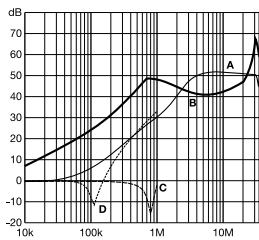


For example: FN9263-1-06, FN9263S-10-06-20, FN9263S1-6-06-30

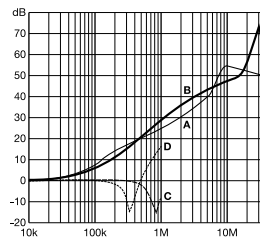
Typical filter attenuation

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

1 to 4A types

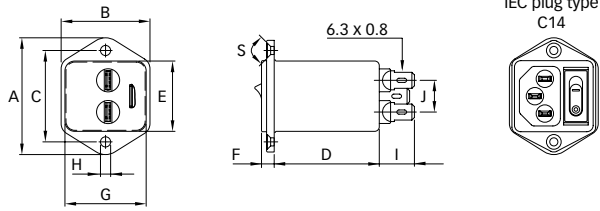


6 to 10A types

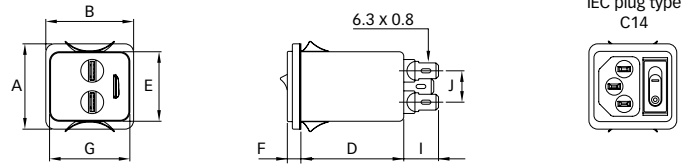


Mechanical data

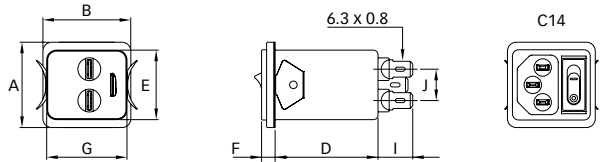
FN9263



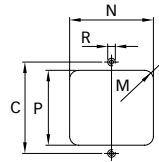
FN9263S



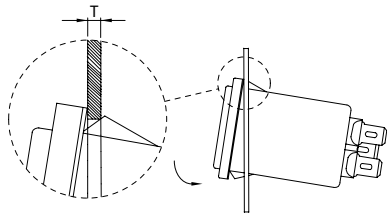
FN9263S1



Panel cut out



Installation



Dimensions

| | FN9263 | FN9263S | FN9263S1 | Tolerances |
|-----------|---------------|----------------|-----------------|-------------------|
| A | 46 | 34 | 34 | ±0.3 |
| B | 35 | 35 | 35 | |
| C | 36 | | | |
| D | 41 | 41 | 41 | ±0.3 |
| E | 27.9 | 27.9 | 27.9 | +0.2/-0 |
| F | 5.5 | 5.5 | 5.5 | ±0.3 |
| G | 32.2 | 32.2 | 32.2 | +0/-0.2 |
| H | Ø3.3 | | | ±0.1 |
| I | 13.8 | 13.8 | 13.8 | |
| J | 12.5 | 12.5 | 12.5 | ±0.3 |
| M | R ≤ 3.5 | R ≤ 3.5 | R ≤ 3.5 | |
| N | 33.2 | 32.6 | 33.3 | ±0.1 |
| P | 29.2 | 29.0 | 28.3 | ±0.1 |
| R | M3 | | | |
| S | 90° | | | |
| T* | | 0.6 - 1.5 | 0.6 - 1.5 | |
| T* | | 1.6 - 2.5 | 1.6 - 2.5 | |
| T* | | 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 = 25.4mm
 Tolerances according: ISO 2768-m / EN 22768-m

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