

# High Performance Power Entry Module with Switch



- Rated currents up to 10 A
- High quality 2-pole rocker switch
- Optional safety version (A type)
- Complies with IEC/EN 60601-1 (B type)
- Snap-in versions (S type)
- Good attenuation performance



## Performance indicators

Attenuation performance



Rated current [A]



## Approvals



The FN 9266 power entry module combines an IEC inlet, mains filter with very high filter attenuation based on nano crystalline material selection and a switch in a small form factor. Choosing FN 9266 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, mounting possibilities and filters for medical applications (acc. to IEC 60601-1 with low leakage current and high performance) are designed to offer you the desired solution.

## Technical specifications

|                                                      |                                                                                                        |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Operating voltage</b>                             | 250 VAC, 50/60 Hz                                                                                      |
| <b>Operating frequency</b>                           | DC to 400 Hz                                                                                           |
| <b>Rated currents</b>                                | 1 to 10 A @ 40°C max.                                                                                  |
| <b>High potential test voltage</b>                   | P → PE 2000 VAC for 2 sec (Standard)<br>P → PE 2500 VAC for 2 sec (B-types)<br>P → N 760 VAC for 2 sec |
| <b>Protection category</b>                           | IP 40 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 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288                                |
| <b>Flammability corresponding to</b>                 | Inlet plastic: UL 94 V-0<br>Switch plastic: UL 94 V-0                                                  |
| <b>MTBF @ Rated amb. Temp./Voltage (Mil-HB-217F)</b> | 2,100,000 hours                                                                                        |
| <b>Rocker switch description</b>                     |                                                                                                        |
| <b>Function</b>                                      | 2-pole, dark not illuminated<br>Marking I – 0                                                          |
| <b>Electrical specifications</b>                     | Inrush current 100 A<br>50,000 on-off operations for 10 A according to EN 610581-1                     |
| <b>Switch ratings</b>                                |                                                                                                        |
| <b>Europe (ENEC)</b>                                 | 10 A (4 A), 250 VAC* 5E4<br>16 A (4 A), 250 VAC* 1E4                                                   |
| <b>USA (UL)</b>                                      | 20 A, 125 VAC 1 HP; 250 VAC 2 HP;                                                                      |

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

## Features and benefits

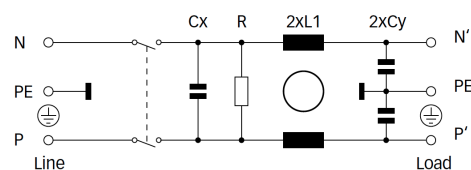
- Excellent conducted attenuation performance, based on chokes with high saturation resistance and good thermal behavior
- High quality 2-pole rocker switch for all-pole disconnection
- Faston terminals for easy assembly
- B types comply with the requirements of IEC/EN 60601-1 (1MOPP) for creepage and clearance, leakage current and high potential testing
- As flange mount and snap-in types available

## Typical applications

- Medical electrical devices (MD) and In-Vitro Diagnostic (IVD) medical devices
- Portable electrical and electronic equipment
- EDP and office equipment
- Single-phase power supplies
- Switch-mode power supplies
- Test and measurement equipment

## Typical electrical schematic

FN 9266 (B types without Y-capacitors)



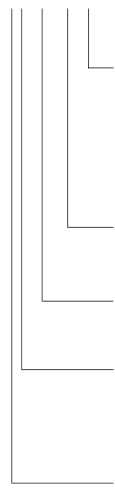
## Filter selection table

|                       | Rated current<br>@ 40°C | Leakage current*<br>@ 250 VAC/50 Hz<br>(@ 120 VAC/60 Hz) | Inductance<br>L | Capacitance |            | Resistor<br>R | Output<br>connections                                                               | Weight |
|-----------------------|-------------------------|----------------------------------------------------------|-----------------|-------------|------------|---------------|-------------------------------------------------------------------------------------|--------|
|                       | [A]                     | [mA]                                                     | [mH]            | Cx<br>[μF]  | Cy<br>[nF] | [kΩ]          |  | [g]    |
| <b>FN 9266-1-06</b>   | 1                       | 0.31 (0.18)                                              | 40              | 0.15        | 2.2        | 1000          | -06                                                                                 | 55     |
| <b>FN 9266-2-06</b>   | 2                       | 0.31 (0.18)                                              | 20              | 0.15        | 2.2        | 1000          | -06                                                                                 | 55     |
| <b>FN 9266-4-06</b>   | 4                       | 0.31 (0.18)                                              | 7               | 0.15        | 2.2        | 1000          | -06                                                                                 | 55     |
| <b>FN 9266-6-06</b>   | 6                       | 0.31 (0.18)                                              | 3               | 0.15        | 2.2        | 1000          | -06                                                                                 | 55     |
| <b>FN 9266-10-06</b>  | 10                      | 0.31 (0.18)                                              | 1.15            | 0.15        | 2.2        | 1000          | -06                                                                                 | 55     |
| <b>FN 9266A-1-06</b>  | 1                       | 0.07 (0.04)                                              | 40              | 0.15        | 0.47       | 1000          | -06                                                                                 | 55     |
| <b>FN 9266A-2-06</b>  | 2                       | 0.07 (0.04)                                              | 20              | 0.15        | 0.47       | 1000          | -06                                                                                 | 55     |
| <b>FN 9266A-4-06</b>  | 4                       | 0.07 (0.04)                                              | 7               | 0.15        | 0.47       | 1000          | -06                                                                                 | 55     |
| <b>FN 9266A-6-06</b>  | 6                       | 0.07 (0.04)                                              | 3               | 0.15        | 0.47       | 1000          | -06                                                                                 | 55     |
| <b>FN 9266A-10-06</b> | 10                      | 0.07 (0.04)                                              | 1.15            | 0.15        | 0.47       | 1000          | -06                                                                                 | 55     |
| <b>FN 9266B-1-06</b>  | 1                       | 0.00                                                     | 40              | 0.15        |            | 1000          | -06                                                                                 | 55     |
| <b>FN 9266B-2-06</b>  | 2                       | 0.00                                                     | 20              | 0.15        |            | 1000          | -06                                                                                 | 55     |
| <b>FN 9266B-4-06</b>  | 4                       | 0.00                                                     | 7               | 0.15        |            | 1000          | -06                                                                                 | 55     |
| <b>FN 9266B-6-06</b>  | 6                       | 0.00                                                     | 3               | 0.15        |            | 1000          | -06                                                                                 | 55     |
| <b>FN9266B-10-06</b>  | 10                      | 0.00                                                     | 1.15            | 0.15        |            | 1000          | -06                                                                                 | 55     |

\* Leakage current under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

## Product selector

FN 9266xx-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 version

A: Safety version

B: Medical version (without Y-capacitor)



Blank: Standard housing with mounting flanges

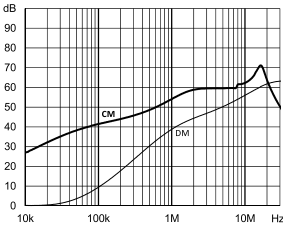
S: Snap-in version, snapper on vertical side

For example: FN 9266-1-06, FN 9266 SB-10-06

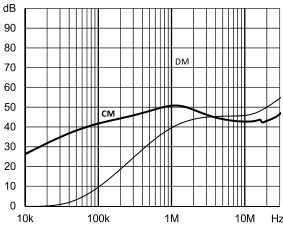
Typical filter attenuation

Per CISPR 17; DM (differential mode)=50 Ω/50 Ω sym; CM (common mode)=50 Ω/50 Ω asym

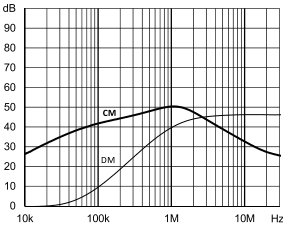
FN 9266 Standard Type 1 A



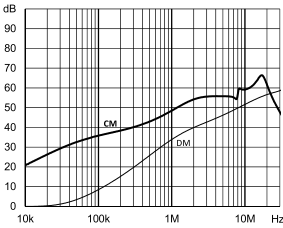
FN 9266 A Type 1 A



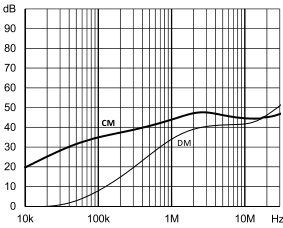
FN 9266 B Type 1 A



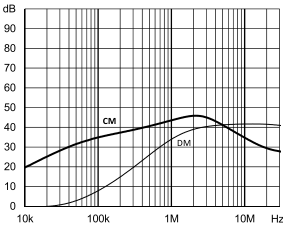
FN 9266 Standard Type 2 A



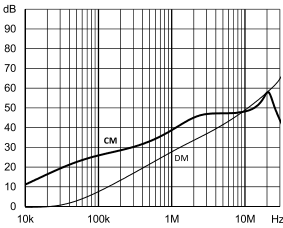
FN 9266 A Type 2 A



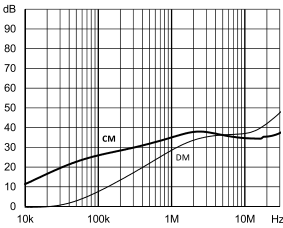
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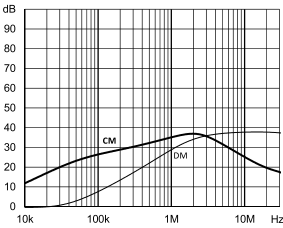
FN 9266 Standard Type 4 A



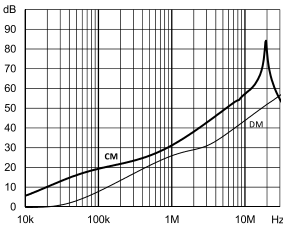
FN 9266 A Type 4 A



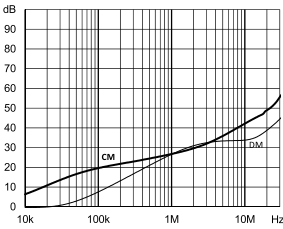
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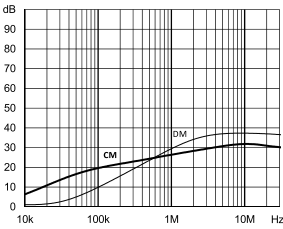
FN 9266 Standard Type 6 A



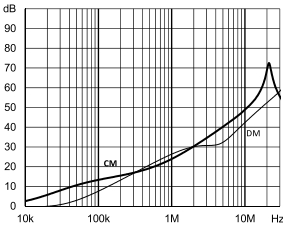
FN 9266 A Type 6 A



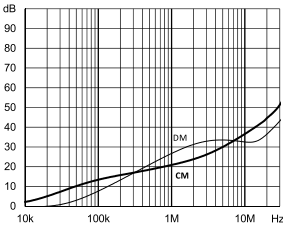
FN 9266 B Type 6 A



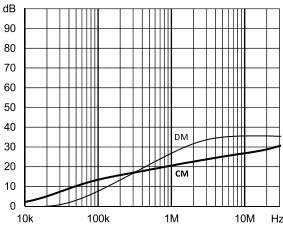
FN 9266 Standard Type 10 A



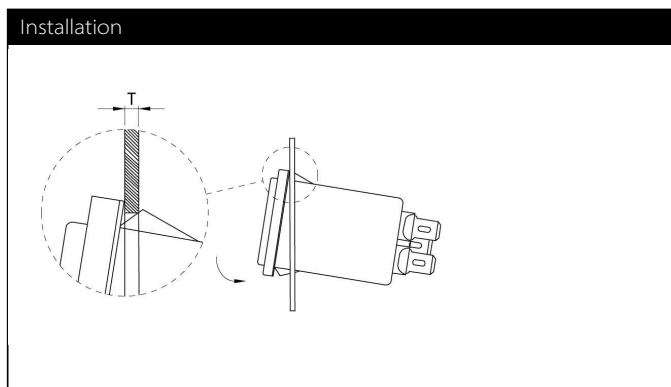
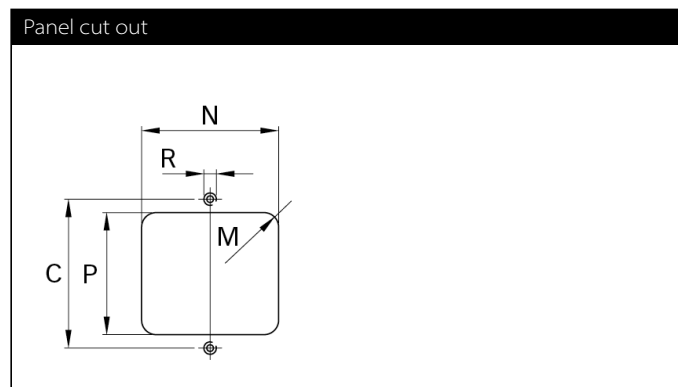
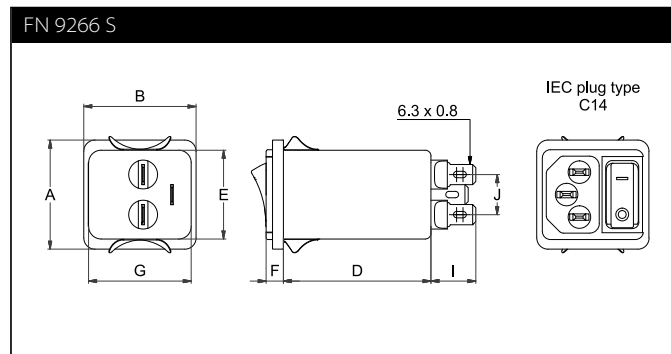
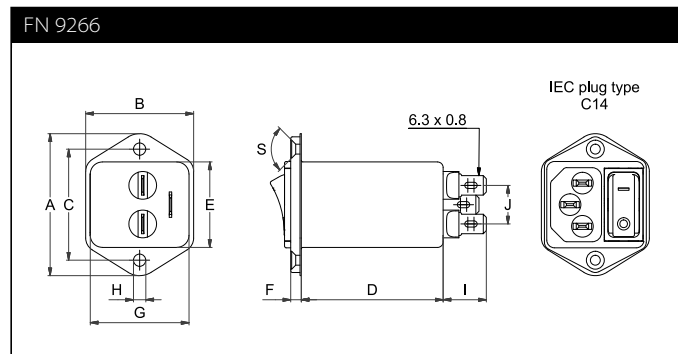
FN 9266 A Type 10 A



FN 9266 B Type 10 A



## Mechanical data



## Dimensions

|            | FN 9266    | FN 9266 S  | Tolerances |
|------------|------------|------------|------------|
| <b>A</b>   | 46         | 34         | ±0.3       |
| <b>B</b>   | 35         | 35         | ±0.3       |
| <b>C</b>   | 36         |            | ±0.3       |
| <b>D</b>   | 46         | 46         | ±0.3       |
| <b>E</b>   | 27.8       | 27.8       | +0.3/-0    |
| <b>F</b>   | 5.5        | 5.5        | ±0.3       |
| <b>G</b>   | 32         | 32         | +0.3/-0    |
| <b>H</b>   | Ø3.2       |            | ±0.1       |
| <b>I</b>   | 14         | 14         | ±0.5       |
| <b>J</b>   | 12.5       | 12.5       | ±0.3       |
| <b>M</b>   | R ≤ 3.5    | R ≤ 3.5    |            |
| <b>N</b>   | 33 +0.3/-0 | 33 +0.2/-0 |            |
| <b>P</b>   | 29 ±0.3    | 29.5 ±0.2  |            |
| <b>R*</b>  | M3         |            |            |
| <b>S</b>   | 90°        |            |            |
| <b>T**</b> |            | 0.6-1.5    |            |
| <b>T**</b> |            | 1.6-2.5    |            |
| <b>T**</b> |            | 2.6-3.5    |            |

\* Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

\*\* 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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