

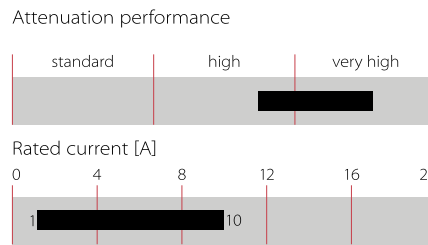
High Performance Power Entry Module with Switch



- 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



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

| | |
|--|--|
| Operating voltage | 250 VAC, 50/60 Hz |
| Operating frequency | DC to 400 Hz |
| Rated currents | 1 to 10 A @ 40°C max. |
| High potential test voltage | P → PE 2000 VAC for 2 sec (Standard) P → PE 2500 VAC for 2 sec (B-types) P → N 760 VAC for 2 sec |
| Protection category | IP 40 according to IEC 60529 |
| Temperature range (operation and storage) | -25°C to +85°C (25/85/21) |
| Design corresponding to | UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288 |
| Flammability corresponding to | Inlet plastic: UL 94 V-0 Switch plastic: UL 94 V-0 |
| MTBF @ Rated amb. Temp./Voltage (Mil-HB-217F) | 2,100,000 hours |
| Rocker switch description | |
| Function | 2-pole, dark not illuminated Marking I – 0 |
| Electrical specifications | Inrush current 100 A 50,000 on-off operations for 10 A according to EN 610581-1 |
| Switch ratings | |
| Europe (ENEC) | 10 A (4 A), 250 VAC* 5E4 16 A (4 A), 250 VAC* 1E4 |
| USA (UL) | 20 A, 125 VAC 1 HP; 250 VAC 2 HP; |

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

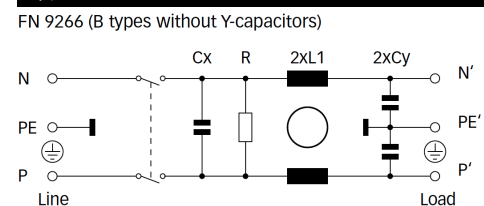
Features and benefits

- 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



Filter selection table

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



FN 9266 B Type 2 A



FN 9266 Standard Type 4 A



FN 9266 A Type 4 A



FN 9266 B Type 4 A



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 |
|-----|------------|------------|------------|
| A | 46 | 34 | ±0.3 |
| B | 35 | 35 | ±0.3 |
| C | 36 | | ±0.3 |
| D | 46 | 46 | ±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 | 14 | 14 | ±0.5 |
| J | 12.5 | 12.5 | ±0.3 |
| M | R ≤3.5 | R ≤3.5 | |
| N | 33 +0.3/-0 | 33 +0.2/-0 | |
| P | 29 ±0.3 | 29.5 ±0.2 | |
| R* | M3 | | |
| S | 90° | | |
| T** | | 0.6-1.5 | |
| T** | | 1.6-2.5 | |
| T** | | 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 to find more details on filter connections.



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