

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.

Features and benefits

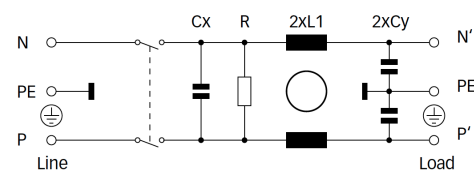
- Excellent conducted attenuation performance, based on chokes with high saturation resistance and good thermal behavior
- High quality 2-pole rocker switch for all-pole disconnection
- Faston terminals for easy assembly
- B types comply with the requirements of IEC/EN 60601-1 (1MOPP) for creepage and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



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: $\cos\phi = 0.65$

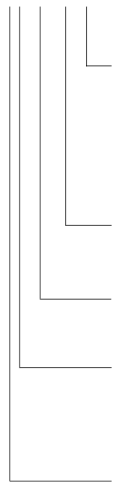
Filter selection table

	Rated current @ 40°C	Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)	Inductance L	Capacitance		Resistor R	Output connections	Weight
	[A]	[mA]	[mH]	Cx [μF]	Cy [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



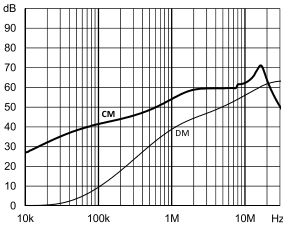
S: Snap-in version, snapper on vertical side

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

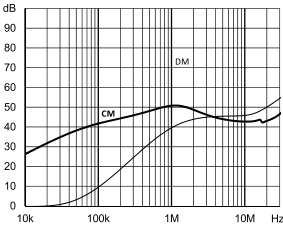
Typical filter attenuation

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

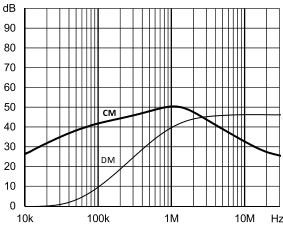
FN 9266 Standard Type 1 A



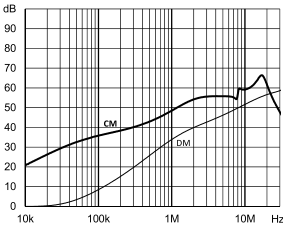
FN 9266 A Type 1 A



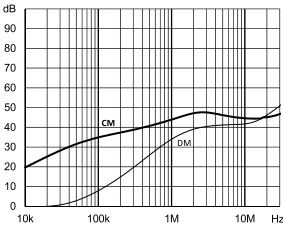
FN 9266 B Type 1 A



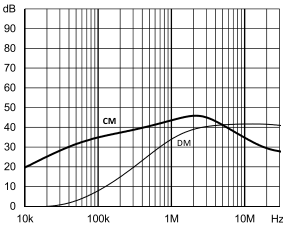
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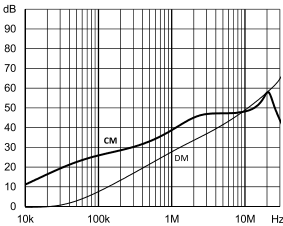
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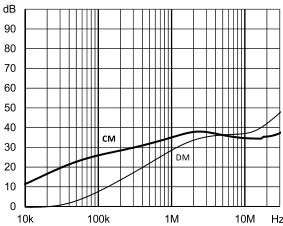
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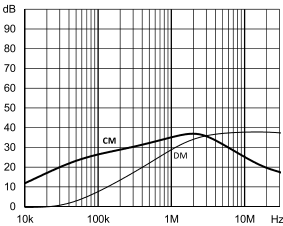
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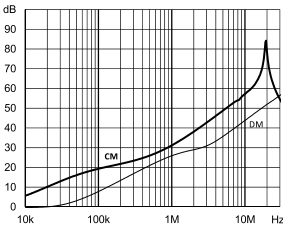
FN 9266 A Type 4 A



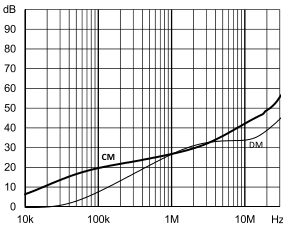
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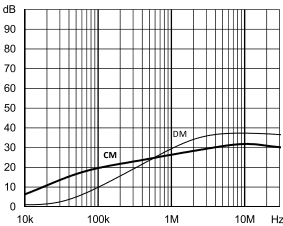
FN 9266 Standard Type 6 A



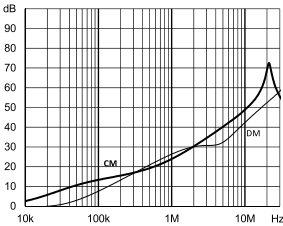
FN 9266 A Type 6 A



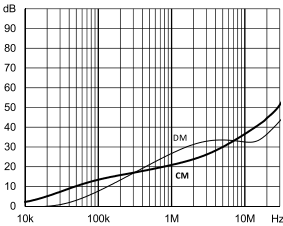
FN 9266 B Type 6 A



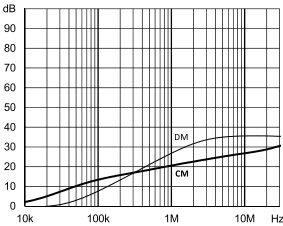
FN 9266 Standard Type 10 A



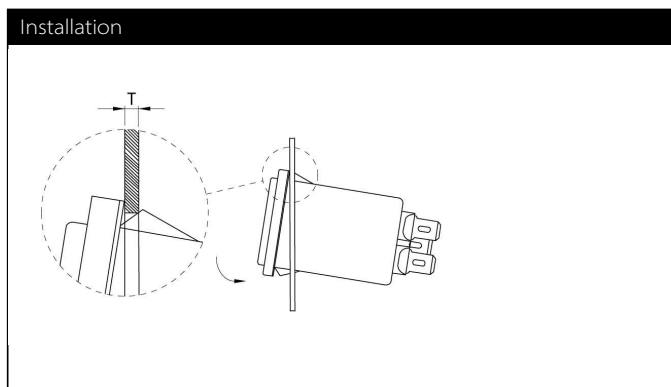
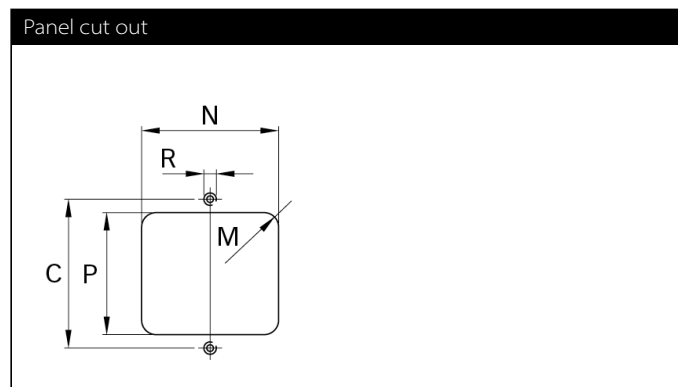
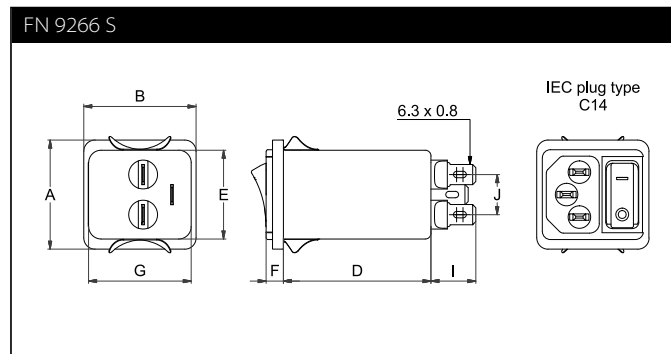
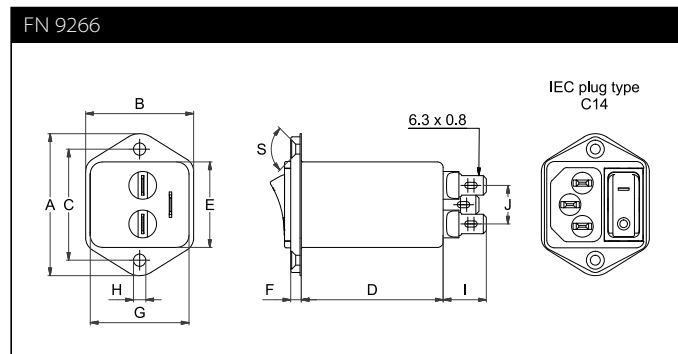
FN 9266 A Type 10 A



FN 9266 B Type 10 A



Mechanical data



Dimensions

	FN 9266	FN 9266 S	Tolerances
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	$R \leq 3.5$	$R \leq 3.5$	
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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