

IEC inlet filters FN 9264

Compact Filtered Power Entry Module

SCHAFFNER
energy efficiency and reliability



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

Approvals



RoHS

Typical specifications

Maximum continuous operating voltage:	250 VAC, 50/60 Hz
Operating frequency:	50 to 400 Hz
Rated currents:	1 to 10A @ 40 °C
High potential test voltage for capacitors:	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:	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/230 V (Mil-HB-217F):	≥ 616,000 hours
Rocker switch description:	
Function:	2-pole, dark not illuminated Marking I-0
Electrical specifications:	
	Inrush current 100 A 10,000 on-off operations according to EN 61058-1
Switch ratings:	
USA (UL):	10A, 125VAC 1HP; 250VAC 2HP;
Canada (CSA):	10A, 125VAC 1HP; 250VAC 2HP;
Europe (ENEC):	10A (4A), 250 VAC*

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

Features and benefits

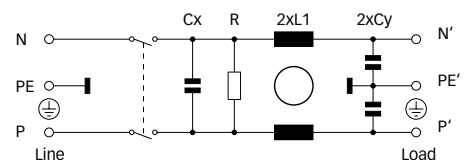
- Excellent conducted attenuation performance, based on chokes with high saturation resistance and good thermal behavior
- High quality 2-pole rocker switch for all-pole disconnection
- Faston terminals for easy assembly
- Medical version (B type) according IEC/EN60601-1
- As flange mount and snap-in types available

Typical applications

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

Typical electrical schematic

Standard types and B types




The FN 9264 power entry module combines an IEC inlet, a mains filter with a 2-pole rocker switch in a compact housing.

Choosing the FN 9264 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances and good attenuation performance in compliance with EN/IEC 60601 for medical devices.

Standard IEC connector filters are a practical solution to pass EMI system approval in a short time. A wide selection of amperage ratings, mounting possibilities and filters for medical applications are designed to offer various solution.

Filter selection table

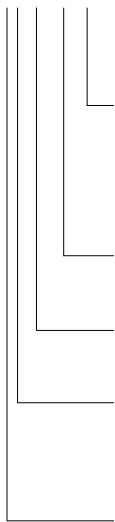
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 250VAC/50Hz	Inductance L	Capacitance Cx Cy**		Resistance R	Output connections 	Weight [g]
	[A]	[µA]	[mH]	[µF]	[nF]	[kΩ]		
FN 9264-xx-1-06-y	1 (1.2)	373/2**	5.15	0.1	2.2	1000	-06	55
FN 9264-xx-2-06-y	2 (2.3)	373/2**	2.7	0.1	2.2	1000	-06	55
FN 9264-xx-4-06-y	4 (4.6)	373/2**	1	0.1	2.2	1000	-06	55
FN 9264-xx-6-06-y	6 (6.9)	373/2**	0.3	0.1	2.2	1000	-06	55
FN 9264-xx-10-06-y	10 (11.5)	373/2**	0.21	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.

** B types without Y2-capacitors

Product selector

FN 9264xx-yy-yy-y



Snap-in range for S version only

Blank: Snap-in panel thickness range 1.0 to 2.5 mm


30: Snap-in panel thickness range >2.5 to 3.5 mm

06: Faston 6.3 x 0.8mm (spade/soldering)

1 to 10: Rated current

Blank: Standard version

B: Medical version (without Y2-capacitor, leakage current max 2µA*)

 Blank: Standard housing with mounting flanges

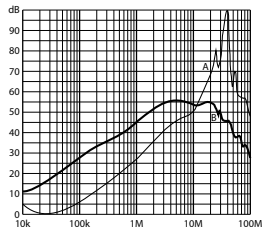
 S: Snap-in version, snapper on vertical side

For example: FN 9264-1-06, FN 9264B-6-06, FN 9264SB-4-06-30

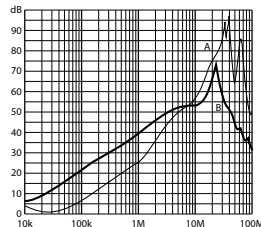
Typical filter attenuation

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym

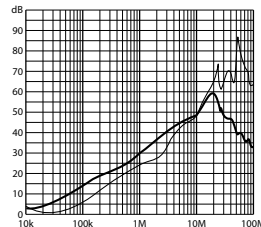
1A types



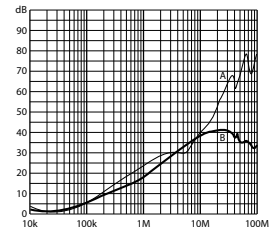
2A types



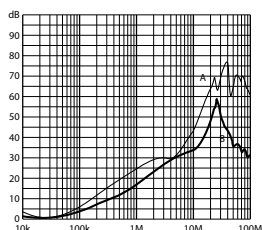
4A types



6A types

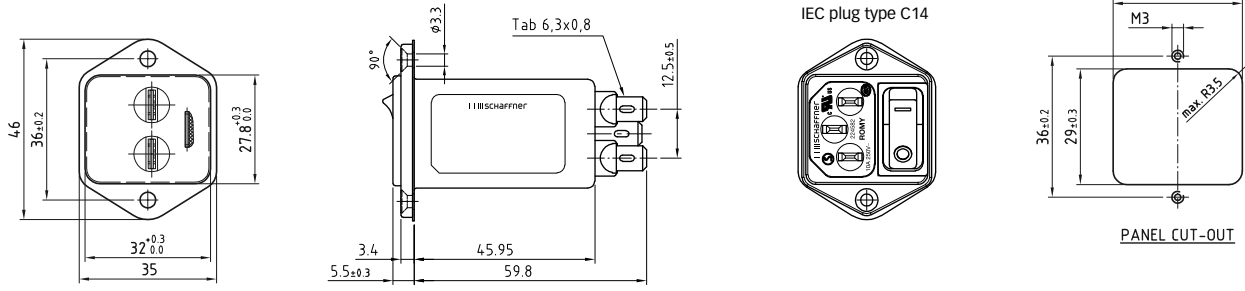


10A types

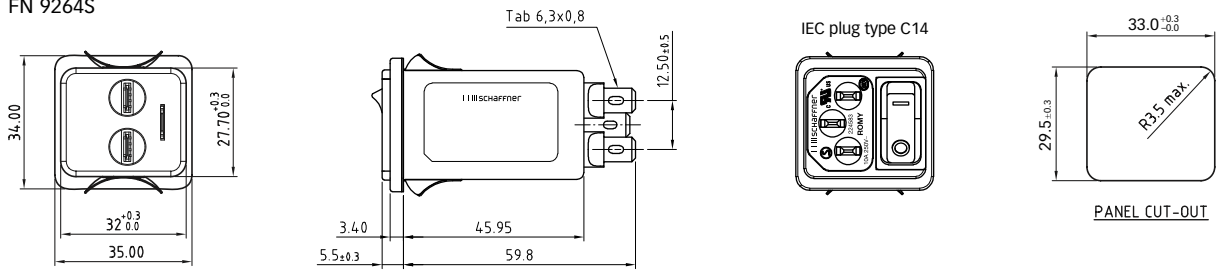


Mechanical data

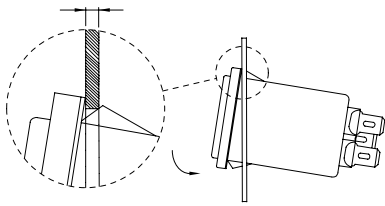
FN 9264



FN 9264S



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