

Compact filtered power entry module



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



Performance indicators

Attenuation performance



Rated current [A]



Approvals



RoHS

(CQC except HI-types)

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

Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Operating frequency	50 to 400 Hz
Rated currents	1 to 10 A @ 40 °C max.
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 94 V-2 or better
MTBF @ 40°C/230V (Mil-HB-217F)	≥ 616,000 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
USA (UL)	20 A, 125 VAC 1 HP; 250 VAC 2 HP; 16 A (4 A), 250 VAC* 1E4

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

Filter selection table

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

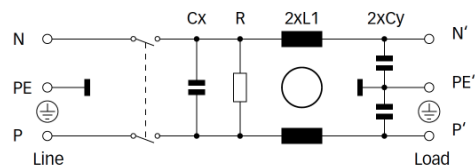
B: Medical version (without Y2-capacitor, leakage current max 2µA*)

 Blank: Standard housing with mounting flanges

 S: Snap-in version, snappper on vertical side

Typical electrical schematic

Standard types and B types

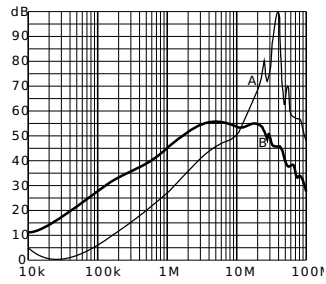


For example: FN 9264-1-06, FN 9264B-6-06, FN 9264SB-4-06-30

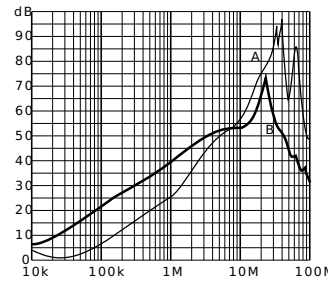
Typical filter attenuation

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

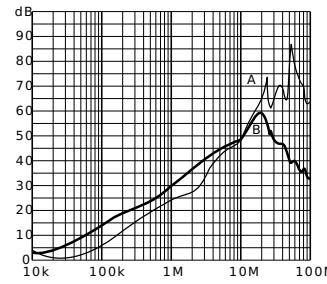
1 A types



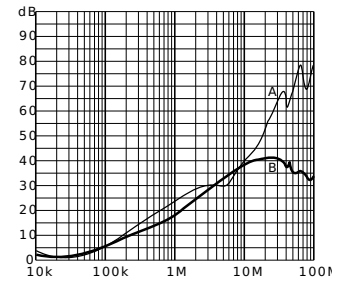
2 A types



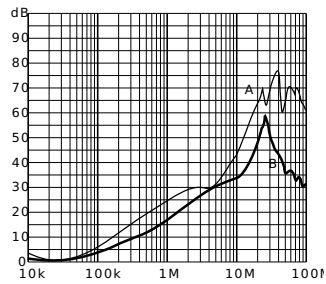
4 A types



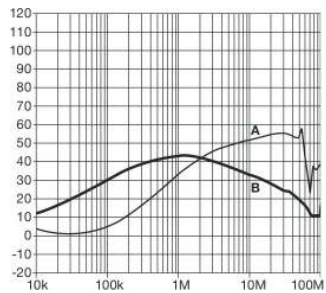
6 A types



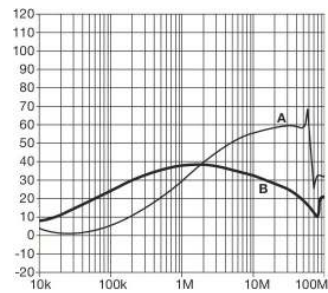
10 A types



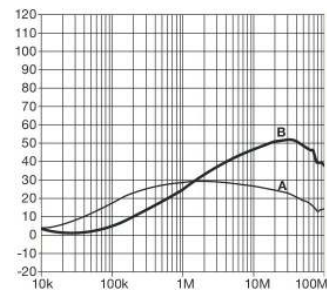
1 B types



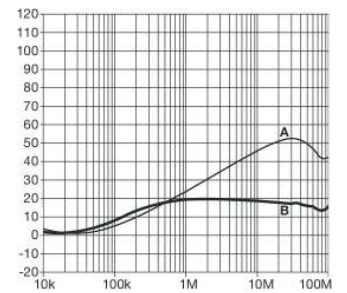
2 B types



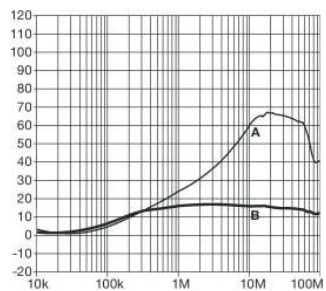
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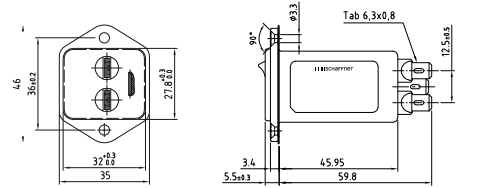
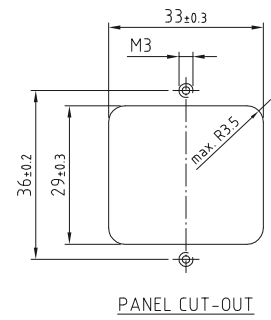
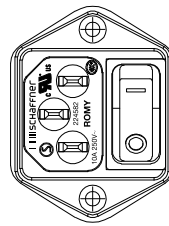
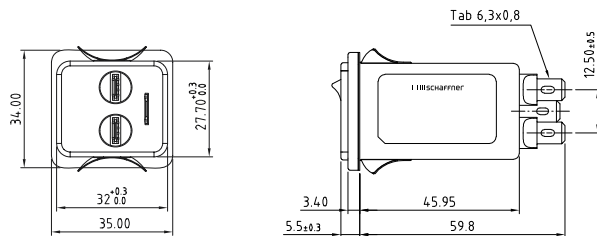
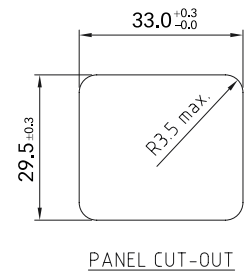
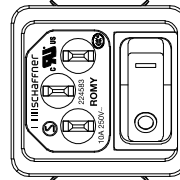
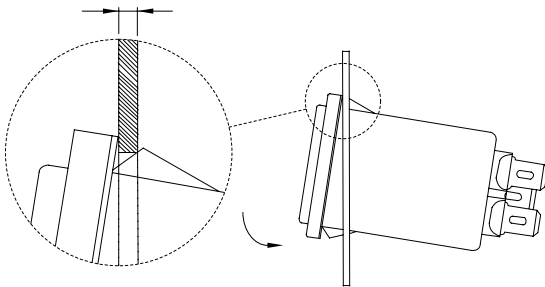


6 B types



10 B types



Mechanical data**FN 9264****Panel cut out****IEC plug type C14****FN 9264S****Panel cut out****IEC plug type C14****Installation**



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