

## 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 to 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

|                                                   |                                                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Maximum continuous operating voltage</b>       | 250 VAC, 50/60 Hz                                                                                      |
| <b>Operating frequency</b>                        | 50 to 400 Hz                                                                                           |
| <b>Rated currents</b>                             | 1 to 10 A @ 40 °C max.                                                                                 |
| <b>High potential test voltage for capacitors</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>                        | IP40 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 1283, CSA 22.2 No. 8 1986, IEC/EN 60939                                                             |
| <b>Flammability corresponding to</b>              | UL 94 V-2 or better                                                                                    |
| <b>MTBF @ 40°C/230V (Mil-HB-217F)</b>             | ≥ 616,000 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                                                                               |
| <b>USA (UL)</b>                                   | 20 A, 125 VAC 1 HP; 250 VAC 2 HP;<br>16 A (4 A), 250 VAC* 1E4                                          |

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

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## Filter selection table

| Filter                   | Rated current<br>@ 40°C (25°C) | Leakage current*<br>@ 250VAC/50Hz | Inductance<br>L | Capacitance |              | Resistance<br>R | Output<br>connections<br> | Weight<br>[g] |
|--------------------------|--------------------------------|-----------------------------------|-----------------|-------------|--------------|-----------------|--------------------------------------------------------------------------------------------------------------|---------------|
|                          | [A]                            | [μA]                              | [mH]            | Cx<br>[μF]  | Cy**<br>[nF] | [kΩ]            |                                                                                                              |               |
| <b>FN9264-xx-1-06-y</b>  | 1 (1.2)                        | 373/2**                           | 5.15            | 0.1         | 2.2          | 1000            | -06                                                                                                          | 55            |
| <b>FN9264-xx-2-06-y</b>  | 2 (2.3)                        | 373/2**                           | 2.7             | 0.1         | 2.2          | 1000            | -06                                                                                                          | 55            |
| <b>FN9264-xx-4-06-y</b>  | 4 (4.6)                        | 373/2**                           | 1               | 0.1         | 2.2          | 1000            | -06                                                                                                          | 55            |
| <b>FN9264-xx-6-06-y</b>  | 6 (6.9)                        | 373/2**                           | 0.3             | 0.1         | 2.2          | 1000            | -06                                                                                                          | 55            |
| <b>FN9264-xx-10-06-y</b> | 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

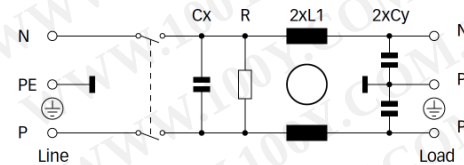
Blank: Standard version

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

-  Blank: Standard housing with mounting flanges  
 S: Snap-in version, snapper on vertical side

## Typical electrical schematic

Standard types and B types

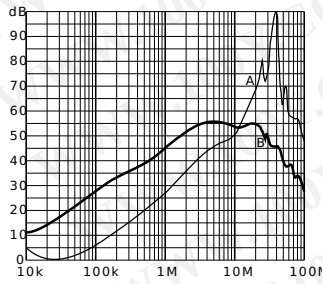


For example: FN 9264-1-06, FN 9264B-6-06, FN 9264SB-4-06-30

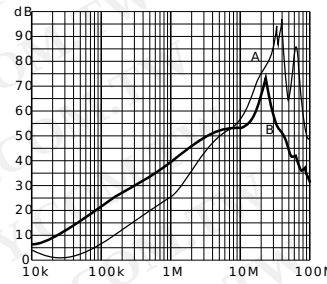
## Typical filter attenuation

Per CISPR 17; A = 50  $\Omega$ /50  $\Omega$  sym; B = 50  $\Omega$ /50  $\Omega$  asym

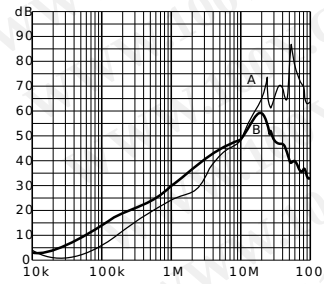
1 A types



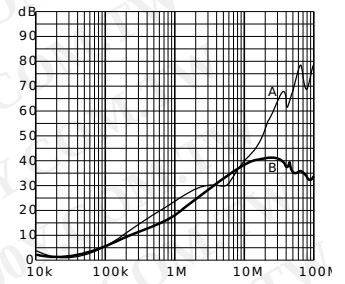
2 A types



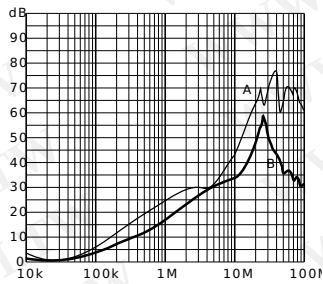
4 A types



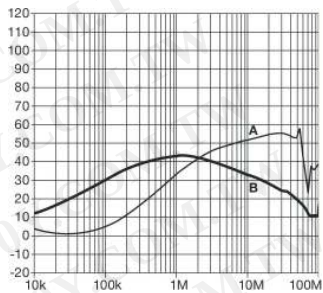
6 A types



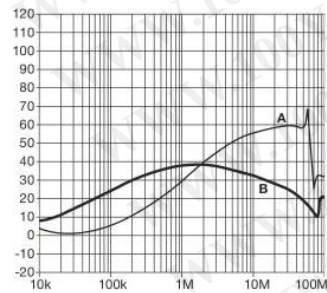
10 A types



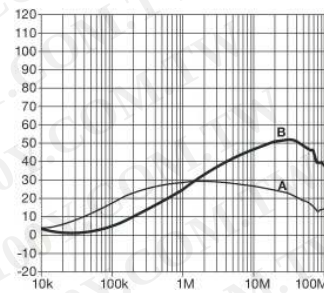
1 B types



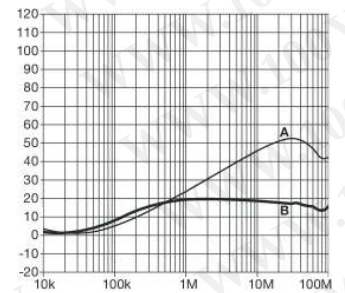
2 B types



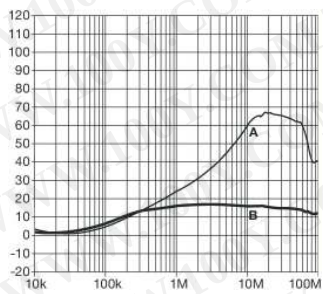
4 B types



6 B types

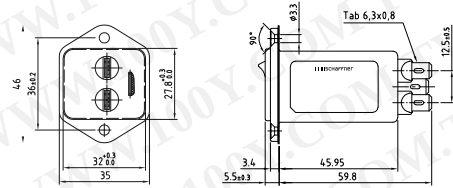


10 B types



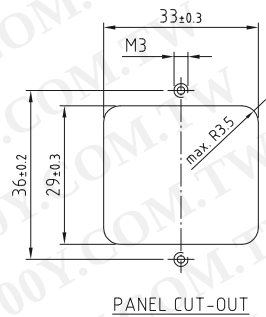
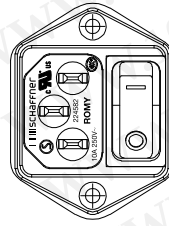
## Mechanical data

FN 9264

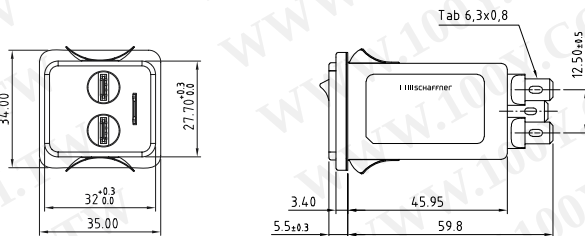


Panel cut out

IEC plug type C14

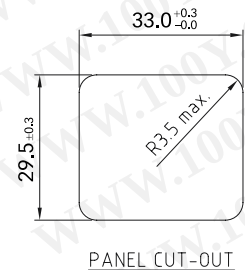
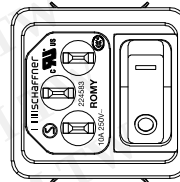


FN 9264S

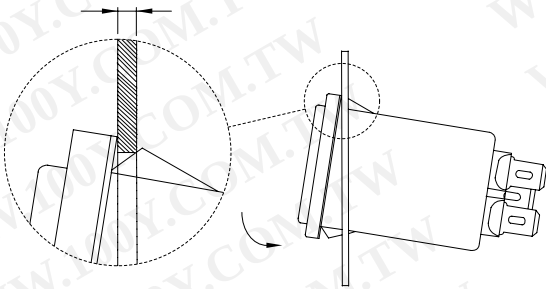


Panel cut out

IEC plug type C14



Installation



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