

Universal line filters for fast and external retrofitting of devices (1 – 16 A)

High frequency voltages of motors, switches, oscillators, switching power supplies and more couple in line networks which can influence negatively the function of electrical devices.

Electrostatic discharges, lightning and switching operations produce dangerous surges by increasing the risk of destruction. Overvoltage pulses also cause broad RF spectra of interferences.

The EM 500 series combines wideband filter and surge arrester circuits to protect valuable equipment against malfunctions and damages. A compact EM 500 suppresses efficiently line interferences and surge pulses and operates bidirectional.

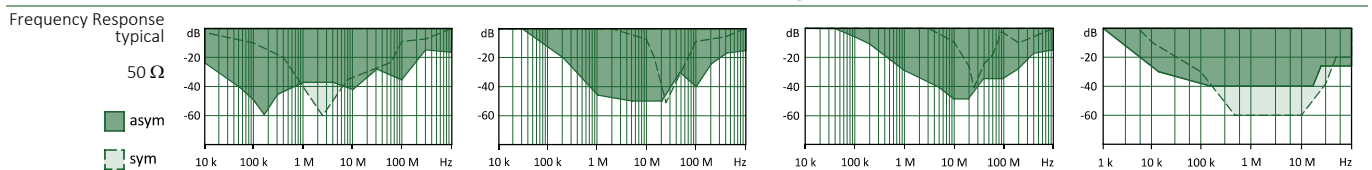
The EMD(Z) 503 causes a high symmetrical and asymmetrical attenuation in the low frequency range (e.g. CENELEC A-D) and helps to reduce interferences by/duo to Smart Metering, DLAN/PLC, touch lamps, switching power supplies, LED drivers...



More protection against failure and costs

- For office, laboratory, IT, industrial use...
- For sensitive and valuable consumer electronics
- Cost-effective retrofitting
- Easy plug-in
- Optional surge protection
- Ground wire choke
- Compact housing
- Modern design

| | EM 501 | EMZ 501 | EM 504 | EMZ 504 | EM 516 | EMZ 516 | EMD 503 | EMDZ 503 |
|-------------------|--|---------|------------------|---------|-------------------|---------|-----------------|----------|
| Max Power | 1 A (250 W) | | 4 A (1000 W) | | 16 A (4000 W) | | 3 A (750 W) | |
| Stopband | 8 kHz – 200 MHz | | 70 kHz – 200 MHz | | 200 kHz – 200 MHz | | 9 kHz – 100 MHz | |
| Attenuation | 10 – 40 dB | | | | | | 10 – 60 dB | |
| Rated Voltage | 250 V (50 Hz) | | | | | | | |
| Surge Protection | | ✓ | | ✓ | | ✓ | | ✓ |
| Fuse | ✓ | ✓ | ✓ | ✓ | | | | ✓ |
| | 5x20 slow blow (IEC127-2/V) depending on max power consumption | | | | | | | |
| Connectors | CEE 7/4 | | | | | | | |
| Temperature Range | max. -25° ... +40° C | | | | | | | |
| Climate Category | 25/80/75 (IEC), HQF (DIN40040) | | | | | | | |
| Dimensions | 43 x 55 x 116 mm | | | | | | | |
| Weight | ca. 150 g | | | | | | | |



Installation

No accumulation! Use short and single connection! Power cables can be like antennas. Cables must be as short as possible to reduce the coupling of electromagnetic fields. No multiple plug socket (interaction)! We recommend one mains filter per device.

In the case of interference due to communication devices (e.g. DLAN/PLC) the filter EMD(Z) 503 must be only used on the side of the malfunctioning device.

Surge Protection

The types EMZ 501/504/516 and EMDZ 503 include a function control. Replace the mains filter if the red indicator lamp bourns out!

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Product Selection

The lower the maximum current load, the larger is the range. The current consumption of the connected device should be slightly smaller than the maximum current load of the mains filter. Before installation the product information of the device must be checked to select the suitable type.

