

## Robust line filters for fast and external retrofitting of electrical single-phase devices for 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 800 series combines 2-stage wideband filter and surge arrester circuits to protect valuable equipment against malfunctions and damages. An EM 800 suppresses efficiently line interferences and surge pulses and operates bidirectional.

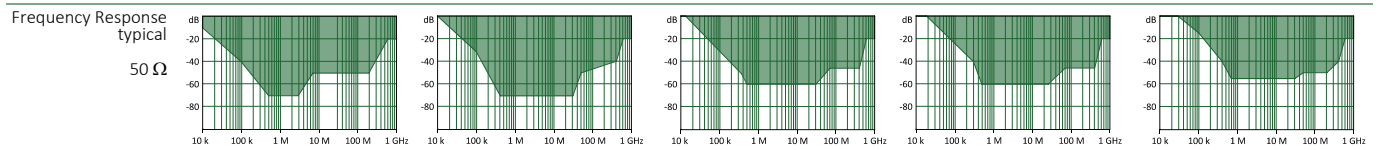
The aluminum die-cast housing provides high robustness for rough use and high shielding effectiveness against electromagnetic interfering fields.

To connect an EM 800, a mains cable is cut and screwed to the internal terminal blocks quickly and securely. An assortment of connection cables for ready-for-use is available.

### Professional protection against failure and costs

- ✓ For laboratory, IT, industrial use...
- ✓ Cost-effective retrofitting and easy plug-in
- ✓ 2-stage filter design for high range suppressing effect
- ✓ Robust and compact housing
- ✓ Internal mounting holes
- ✓ Ground wire choke
- ✓ Surge protection
- ✓ Flexibility of connection
- ✓ Optional connection cables for immediate application

	EMZ 801	EMZ 802	EMZ 806	EMZ 810	EMZ 816
Max Power	1 A (250 W)	2 A (500 W)	6 A (1500 W)	10 A (2500 W)	16 A (4000 W)
Stopband	10 kHz – 500 MHz	20 kHz – 500 MHz	30 kHz – 500 MHz	50 kHz – 500 MHz	100 kHz – 500 MHz
Attenuation	10 – 70 dB	10 – 70 dB	10 – 60 dB	10 – 60 dB	10 – 50 dB
Rated Voltage	110 – 250 V (50/60 Hz)				
Surge Protection	D/Type 3, discharging capacity: 4,5 kA (8/20 µs), protection level: < 0,75 kV (P-L), response time: < 25 ns				
Fuse	5x20 mm slow blow (IEC127-2/V) depending on max power consumption				–
Connectors	L-N-PE: terminal block Ø 2,5 mm <sup>2</sup> connection of shielding: screw elements Ø 2,5 mm				
Temperature Range	max. -25° ... +50° C				
Climate Class	HQF (DIN40040)				
Protection Class	IP 20				
Dimensions	36 x 63 x 114 mm				
Weight	ca. 270 g				



Quality made in Germany



#### 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.

#### 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, check the product information of the device and then select the suitable type.

