EM 800 | Universal Wideband Mains Filters

Robust Line Filters for Easy External Retrofitting of 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.

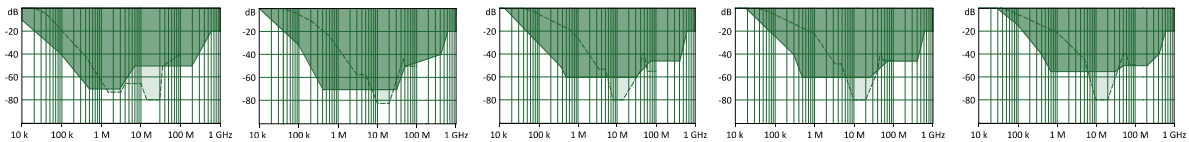
The EM 800 series combines 2-stage wideband filter and surge arrestor circuits to protect valuable equipment against malfunctions and damages. An EM 800 suppresses efficiently line interferences and surge pulses and operates bidirectional.

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

For installation a mains cable is cut and quickly and securely screwed onto the internal terminal blocks. An assortment of connection cables for ready-for-use is available.

Benefits

- ☑ 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

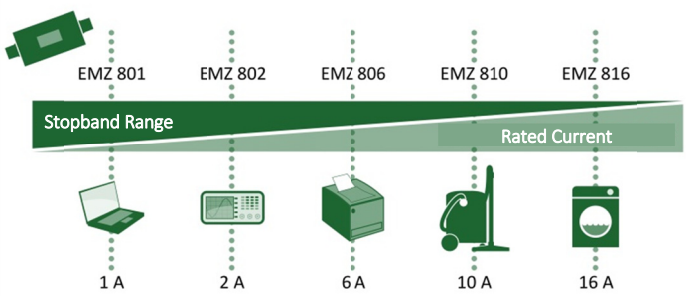
	EMZ 801	EMZ 802	EMZ 806	EMZ 810	EMZ 816
Rated current	1 A	2 A	6 A	10 A	16 A
Stopband	10 kHz – 500 MHz	20 kHz – 500 MHz	30 kHz – 500 MHz	50 kHz – 500 MHz	100 kHz – 500 MHz
Attenuation	10 – 70 dB	10 – 70 dB	10 – 60 dB	10 – 60 dB	10 – 50 dB
Rated voltage	250 V @ 50 Hz (110 V @ 60 Hz)				
Surge protection	D/Type 3, discharging capacity: 4,5 kA (8/20 µs), protection level: < 0,75 kV (P-L), response time: < 25 ns				
Fuse	5x20 slow blow (IEC127-2/V) depending on rated current				–
Connectors	L-N-PE: terminal block Ø 2,5 mm²				
Temperature range	max. -25° ... +50° C				
Climate category	25/80/75 (IEC), HQF (DIN40040)				
Protection class	IP 30				
Standards	CE, EN 60939-1, RoHS 2011/65/EU				
Dimensions	36 x 63 x 114 mm				
Weight	ca. 270 g				
Frequency response typical 50 Ω asym sym					

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 first the product information of the device. Then select the suitable type.

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 electro-magnetic fields. No multiple plug socket (interaction)! We recommend one mains filter per device.



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