

### Overview

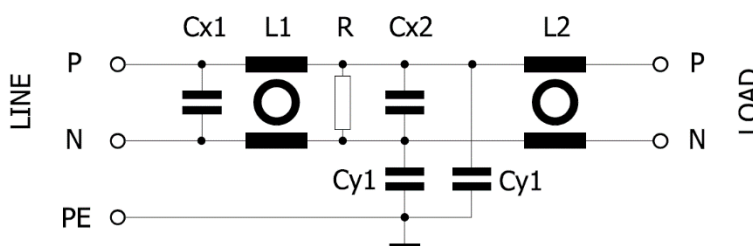
General purpose, single phase filter series with high/very high attenuation. Chassis mount for fast mounting, metal case filled with self-extinguishing resin. Fast-on or screw terminals available and options with flexible wire connections. Medical versions available without Y-capacitors for no leakage current.

**RoHS**  
Compliant

### Technical specifications

| Item              | Parameters/<br>Characteristics       |
|-------------------|--------------------------------------|
| Rated Voltage     | 300 VAC/VDC                          |
| Rated Frequency   | 50 - 60 Hz                           |
| Rated Current     | 1 - 32 A                             |
| Rated Temperature | 40°C                                 |
| Temperature range | -25°C to 100°C                       |
| Climate Category  | 25/100/21                            |
| Voltage Test      | P -> N 1300 VDC<br>P/N -> E 2250 VDC |

### Typical electrical schematics



### Components

| Part Number      | Rated Current<br>@ 40°C<br>(A) | Leakage<br>Current *)<br>(mA) | C <sub>x1</sub><br>(μF) | R<br>(MΩ) | L <sub>1</sub><br>(mH) | C <sub>y1</sub><br>(nF) | C <sub>x2</sub><br>(μF) | L <sub>2</sub><br>(mH) |
|------------------|--------------------------------|-------------------------------|-------------------------|-----------|------------------------|-------------------------|-------------------------|------------------------|
| FLLE2001AS(1)(2) | 1                              | 0.37                          | 0.33                    | 0.68      | 22                     | 4.7                     | 0.33                    | 22                     |
| FLLE2003AS(1)(2) | 3                              | 0.37                          | 0.47                    | 0.47      | 14                     | 4.7                     | 0.47                    | 14                     |
| FLLE2006AS(1)(2) | 6                              | 0.37                          | 1                       | 0.22      | 8                      | 4.7                     | 1                       | 8                      |
| FLLE2010AS(1)(2) | 10                             | 0.37                          | 1                       | 0.22      | 5                      | 4.7                     | 1                       | 5                      |
| FLLE2013AS(1)(2) | 13                             | 0.37                          | 1                       | 0.22      | 4                      | 4.7                     | 1                       | 4                      |
| FLLE2016AS(1)(2) | 16                             | 0.37                          | 1                       | 0.22      | 4                      | 4.7                     | 1                       | 4                      |
| FLLE2020AS(1)(2) | 20                             | 0.37                          | 2.2                     | 0.15      | 2                      | 4.7                     | 2.2                     | 2                      |
| FLLE2025AS(1)(2) | 25                             | 0.37                          | 2.2                     | 0.15      | 2                      | 4.7                     | 2.2                     | 2                      |
| FLLE2032AS(1)(2) | 32                             | 0.37                          | 2.2                     | 0.15      | 1.3                    | 4.7                     | 2.2                     | 1.3                    |

(1) D = Standard, M = Medical

(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A)

\*) Leakage current @ 250 VAC / 50 Hz acc. to IEC60939-3. Medical version without C<sub>y</sub>-capacitors, no leakage current.

Approvals (pending)

### Standard

IEC/EN 60939-3  
ANSI/UL 60939-3-2016

### Certification Body

UL-Demko  
UL

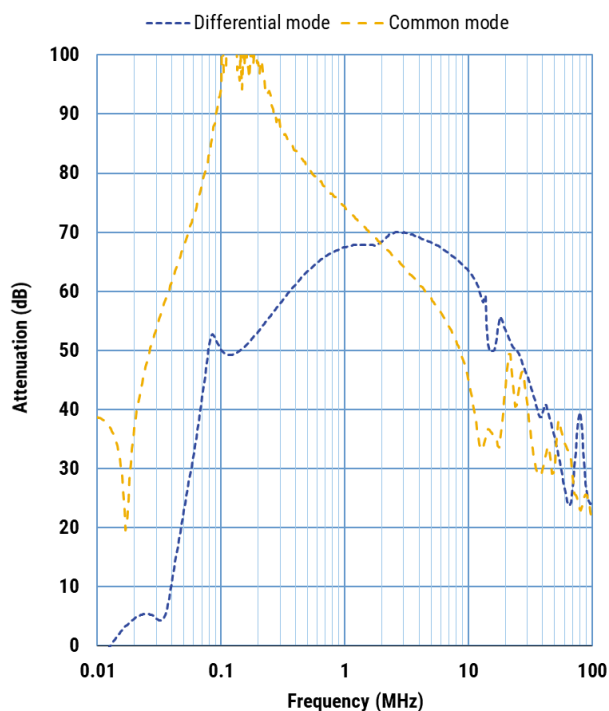
### File

Pending  
Pending

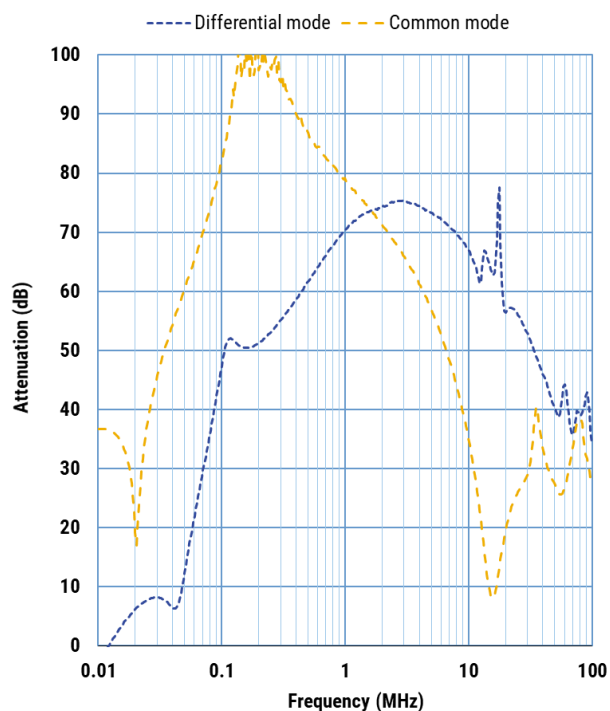


### Typical insertion loss

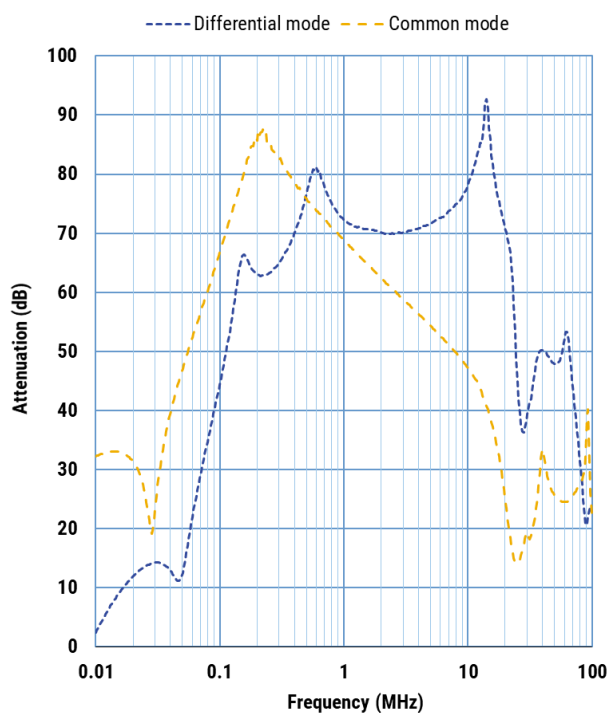
FLLE2001ASDB



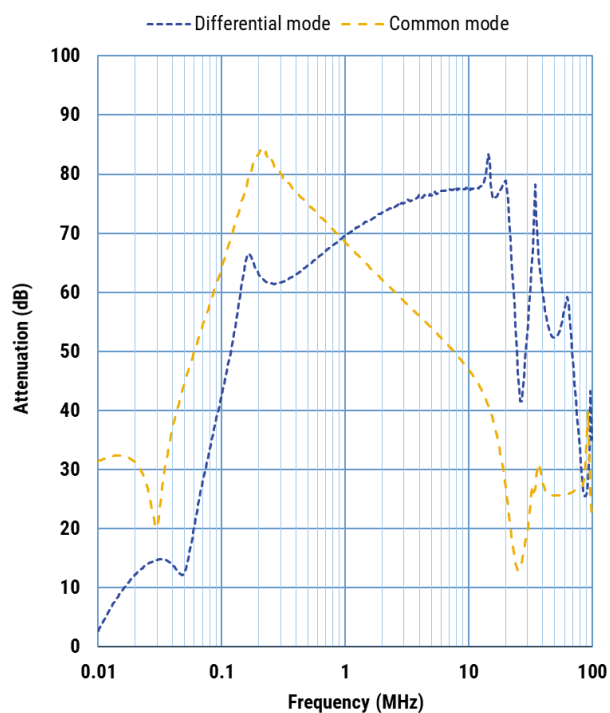
FLLE2003ASDB



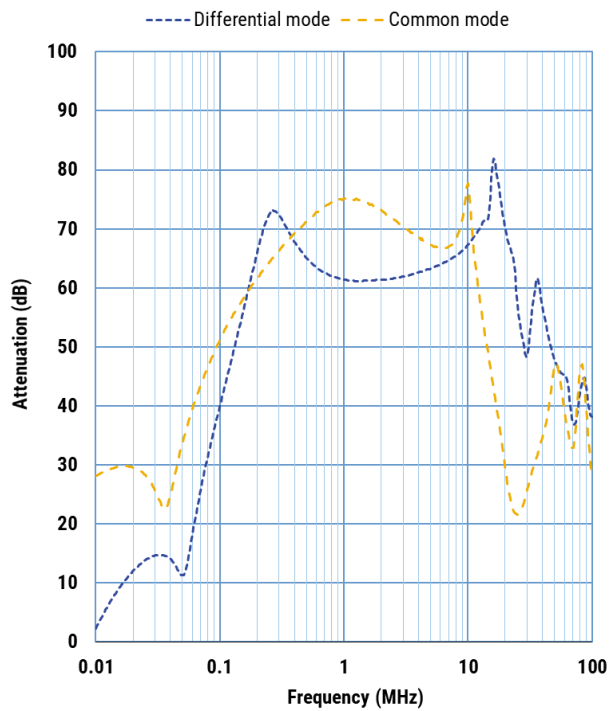
FLLE2006ASDB



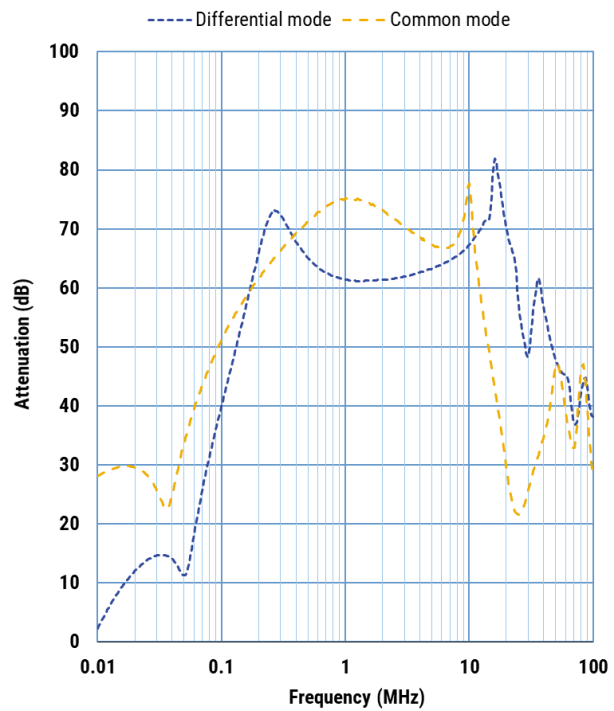
FLLE2010ASDB



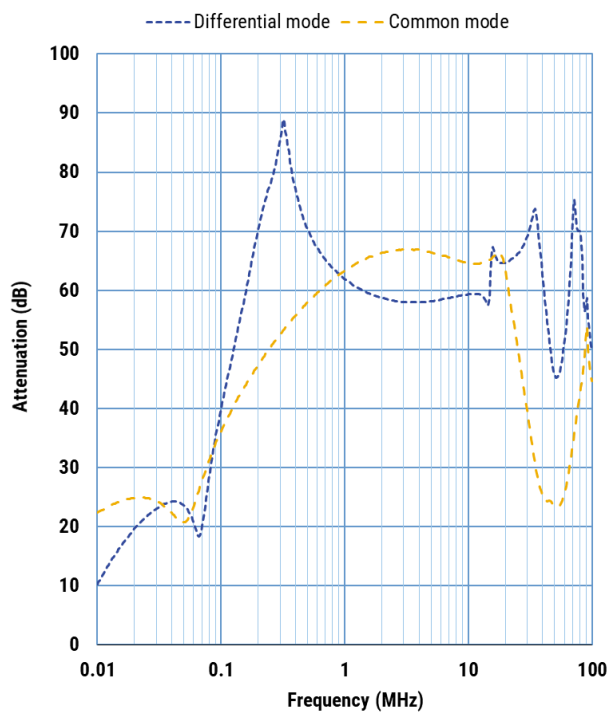
FLLE2013ASDB



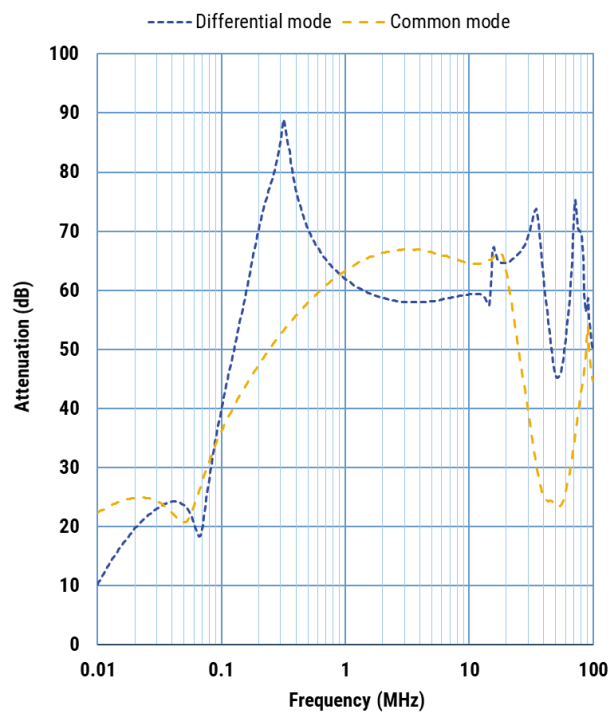
FLLE2016ASDB



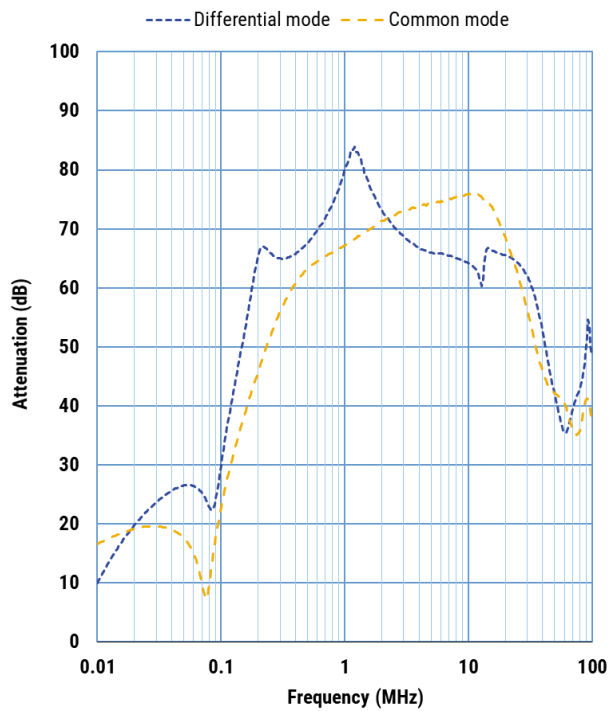
FLLE2020ASDI



FLLE2025ASDI



FLLE2032ASDI



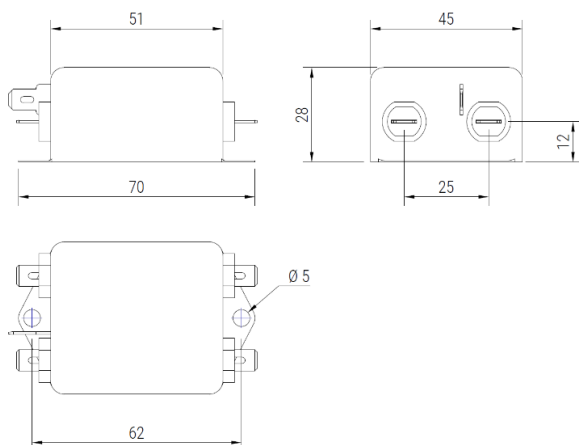
### Mechanical dimensions

| Part Number      | L<br>(mm) | W<br>(mm) | H<br>(mm) | Weight<br>(g) | Fast-on<br>Terminal | Threaded<br>Terminal | Flexible<br>Wire (mm <sup>2</sup> ) |
|------------------|-----------|-----------|-----------|---------------|---------------------|----------------------|-------------------------------------|
| FLLE2001AS(1)(2) | 51        | 45        | 28        | 130           | 6.3 x 0.8           |                      | 0.75                                |
| FLLE2003AS(1)(2) | 65        | 50        | 40        | 280           | 6.3 x 0.8           |                      | 0.75                                |
| FLLE2006AS(1)(2) | 91        | 51        | 45        | 410           | 6.3 x 0.8           |                      | 1.5                                 |
| FLLE2010AS(1)(2) | 91        | 51        | 45        | 410           | 6.3 x 0.8           |                      | 1.5                                 |
| FLLE2013AS(1)(2) | 130.5     | 56.5      | 48.5      | 690           | 6.3 x 0.8           |                      | 1.5                                 |
| FLLE2016AS(1)(2) | 130.5     | 56.5      | 48.5      | 690           | 6.3 x 0.8           |                      | 2.5                                 |
| FLLE2020AS(1)(2) | 130.5     | 56.5      | 48.5      | 720           |                     | M4 x 0.7             | 2.5                                 |
| FLLE2025AS(1)(2) | 130.5     | 56.5      | 48.5      | 720           |                     | M4 x 0.7             | 2.5                                 |
| FLLE2032AS(1)(2) | 130.5     | 56.5      | 48.5      | 800           |                     | M4 x 0.7             | 4                                   |

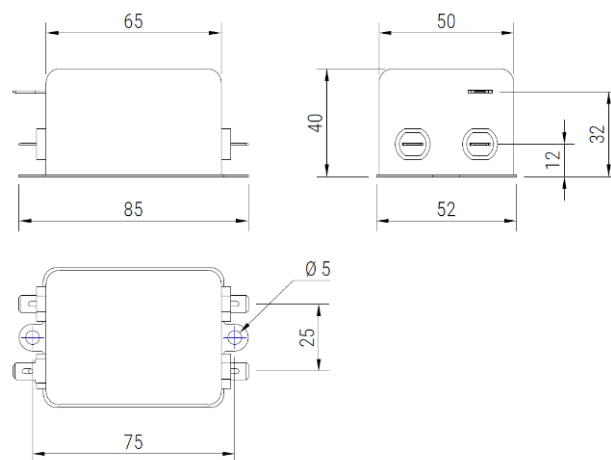
(1) D = Standard, M = Medical

(2) B = Fast-on, I = Threaded, D = Wire (Length = 140±5 mm)

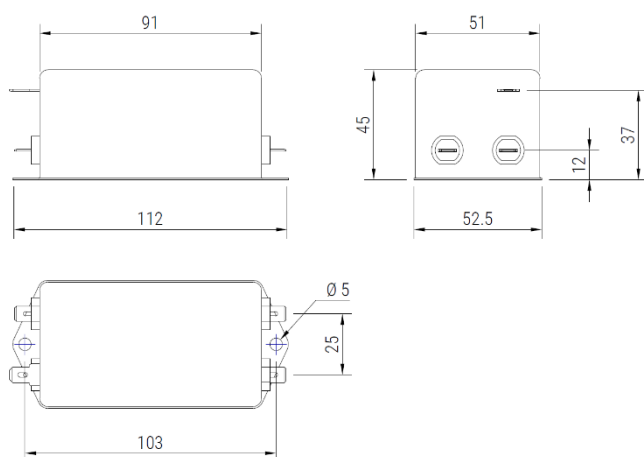
### 1A



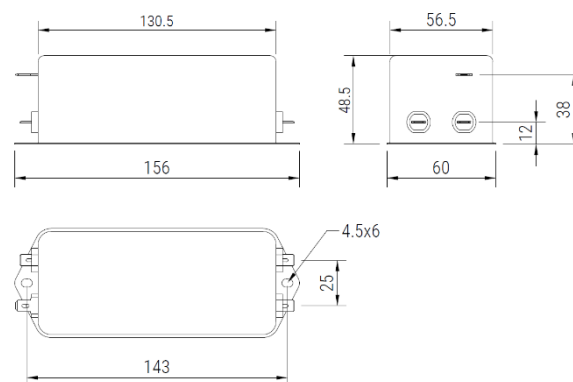
### 3A



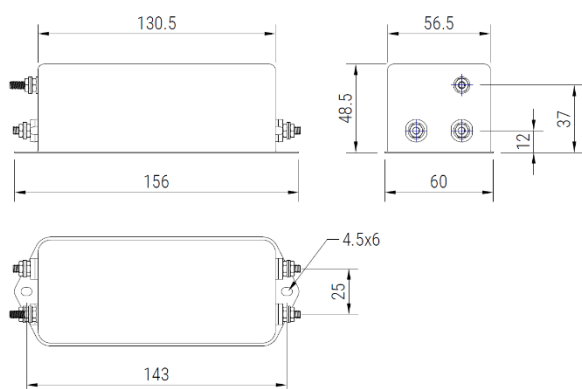
### 6A and 10A



### 13A and 16A



### 20A, 25A and 32A



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Although we design and manufacture our products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

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