FLLE2 – S Single phase EMI Filter

Overview

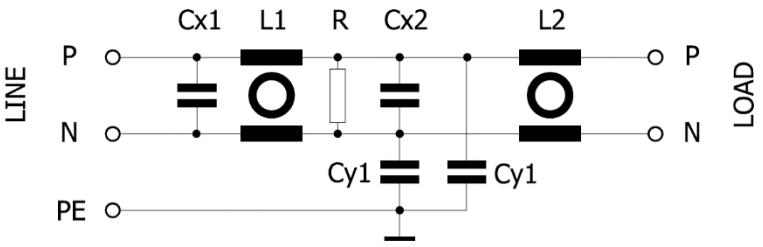
General purpose, single phase filter series with high/very high attenuation. Chassis mount for fast mounting, metal case filled with self-extinguishing resin. Fast-on or screw terminals available and options with flexible wire connections. Medical versions available without y-capacitors for no leakage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

RoHS Compliant

Technical specifications

Item	Parameters/ 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 P/N -> E 2250 VDC

Typical electrial schematics





Components

Part Number	Rated Current @ 40°C (A)	Leakage Current *) (mA)	C_X1 (µF)	R (MΩ)	L1 (mH)	C_Y1 (nF)	C_X2 (µF)	L2 (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

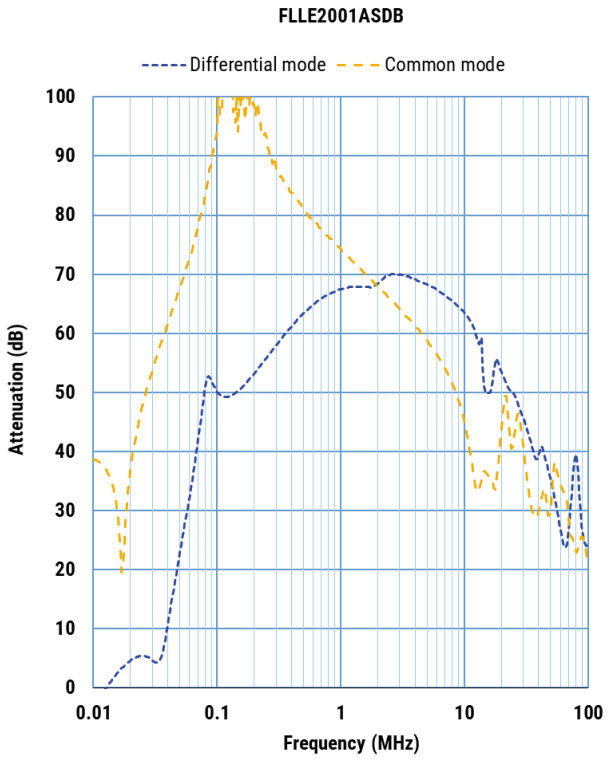
(1) D = Standard, M = Medical
(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A)

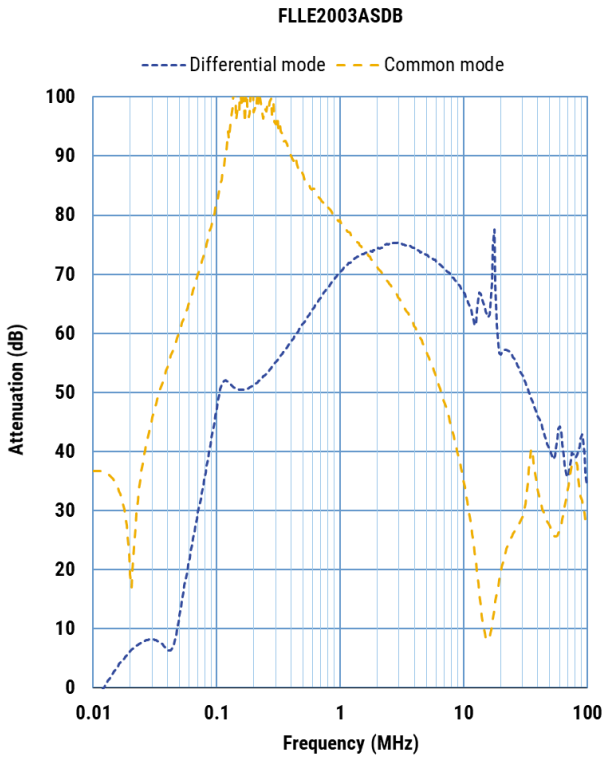
*) Leakage current @250 VAC/ 50 Hz acc. to IEC60939-3. Medical version without C_Y-capacitors, no leakage current.

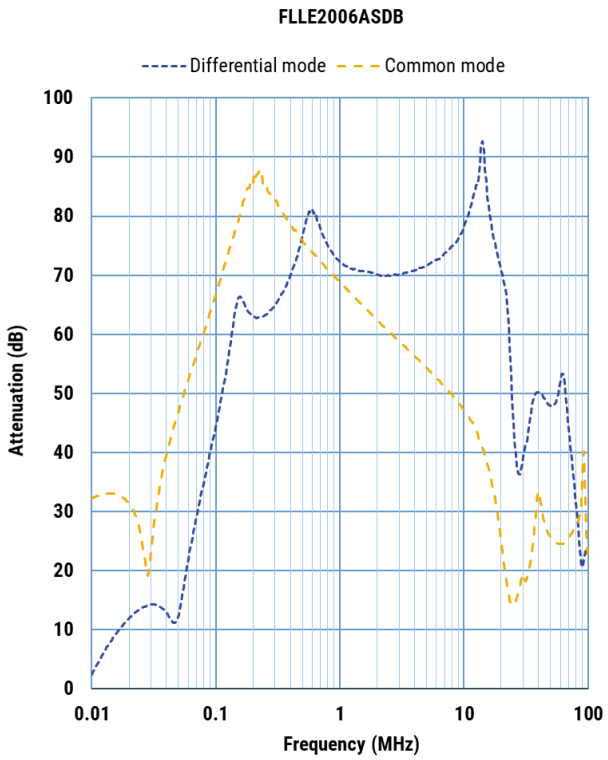
Approvals (pendning)

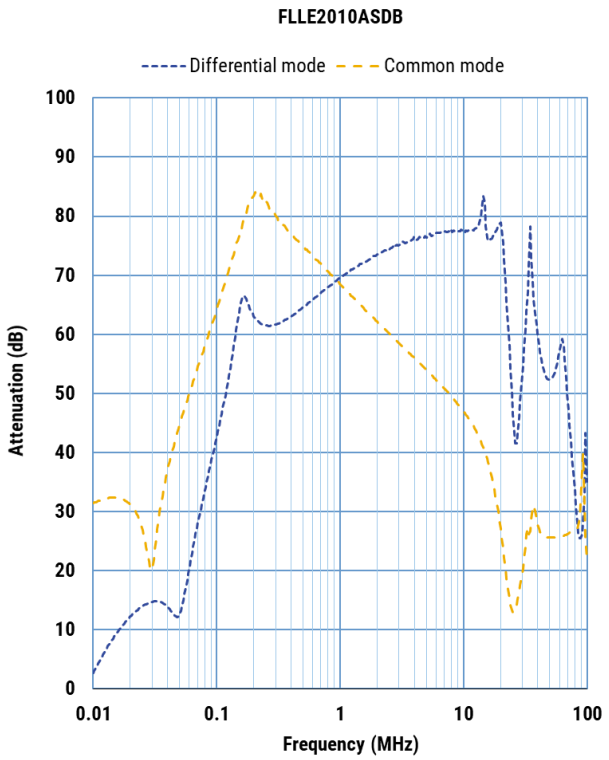
Standard	Certification Body	File
IEC/EN 60939-3	UL-Demko	Pending
ANSI/UL 60939-3-2016	UL	Pending

Typical insertion loss

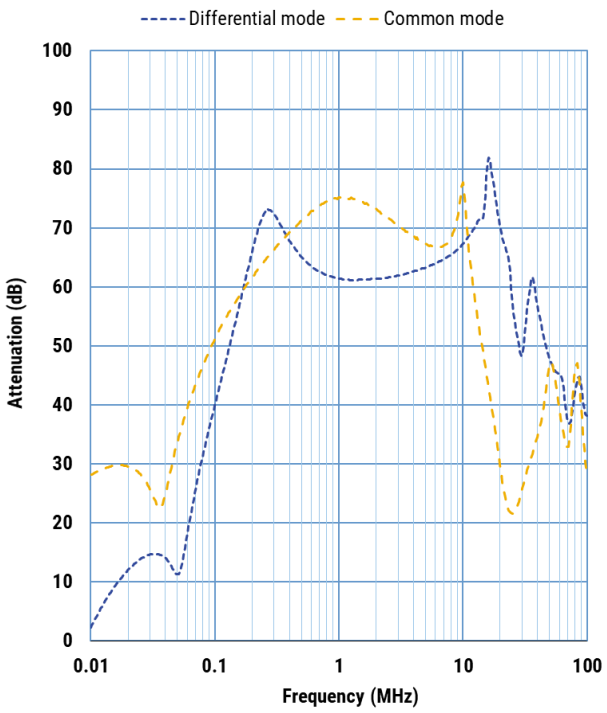




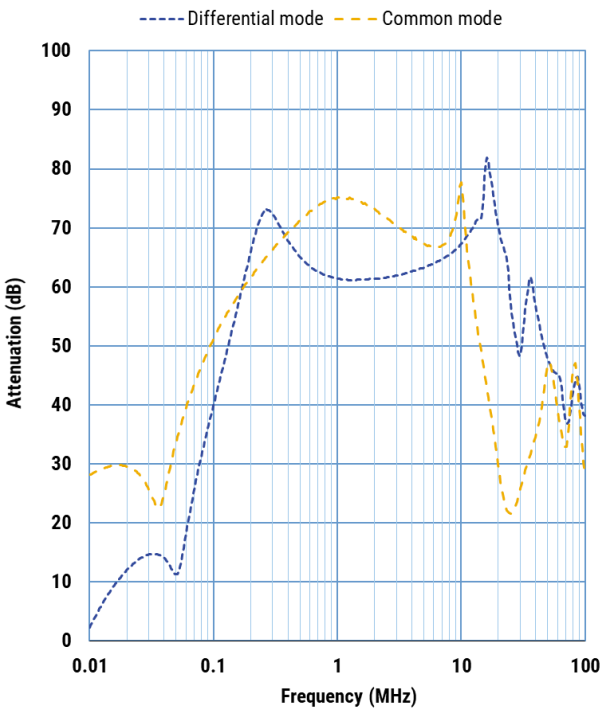




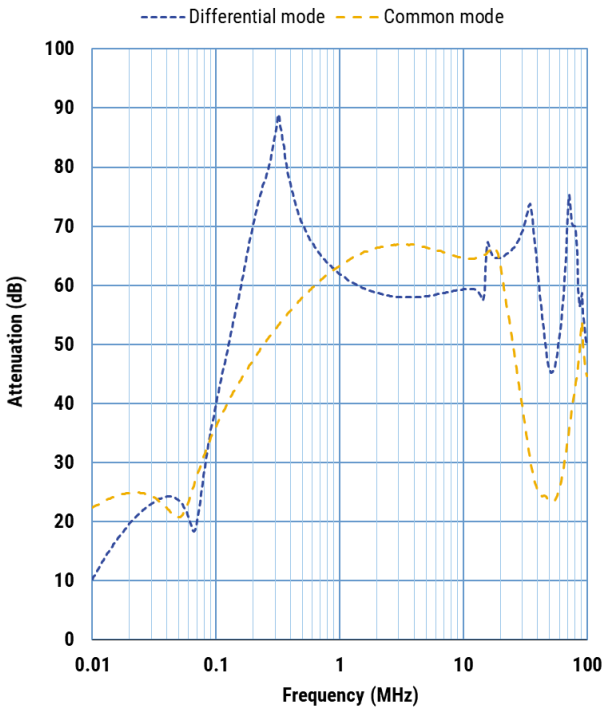
FLLE2013ASDB



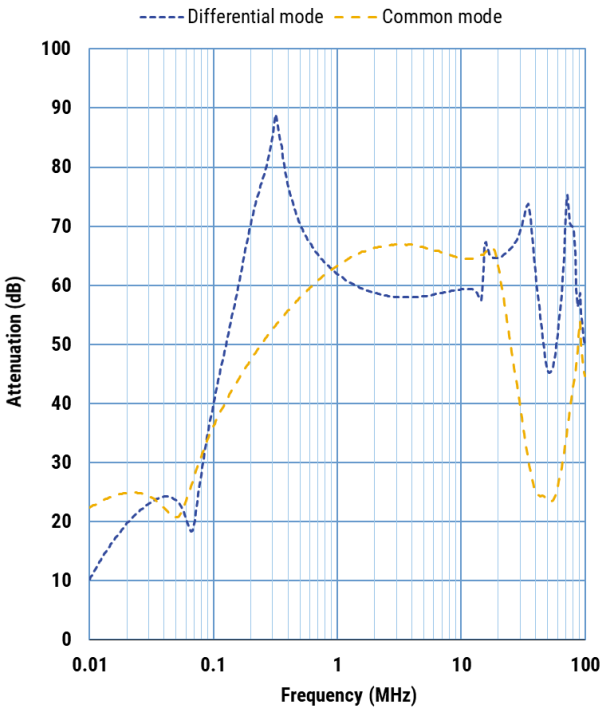
FLLE2016ASDB

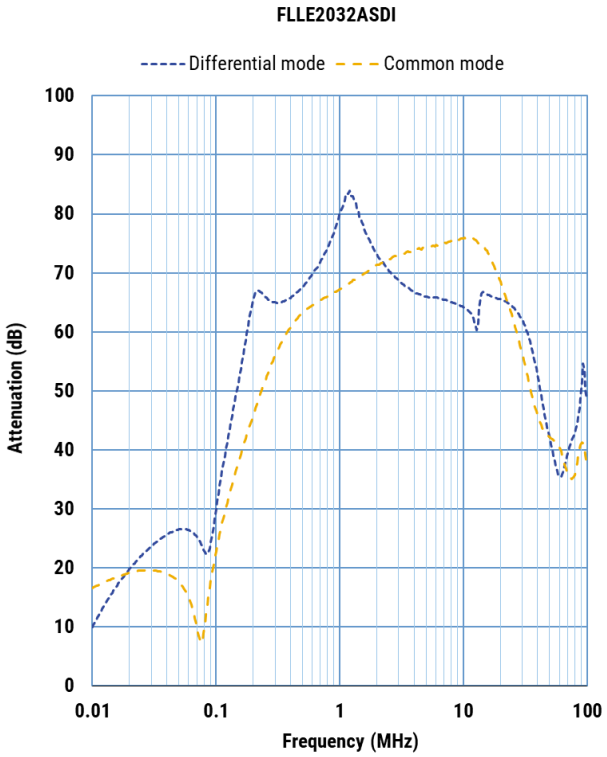


FLLE2020ASDI



FLLE2025ASDI



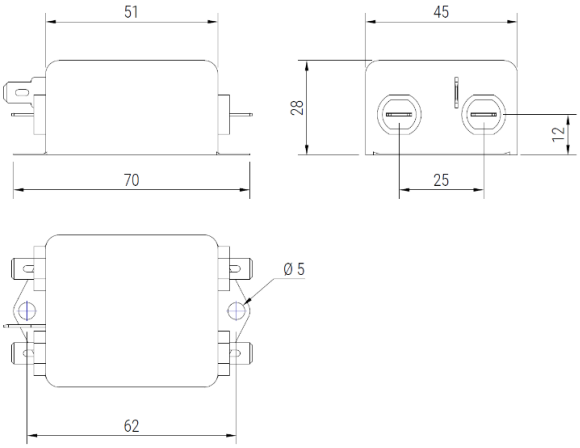


Mechanical dimensions

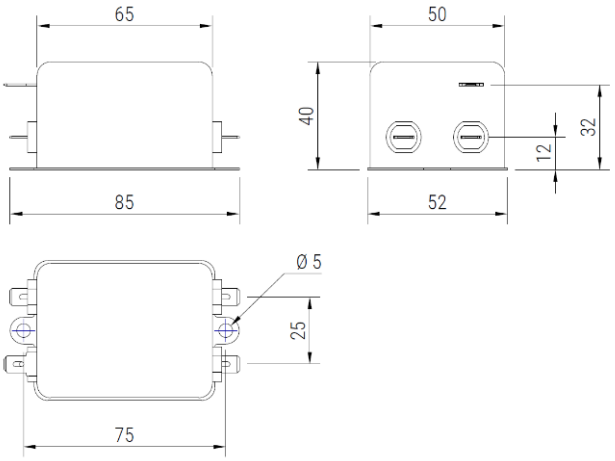
Part Number	L (mm)	W (mm)	H (mm)	Weight (g)	Fast-on Terminal	Threaded Terminal	Flexible Wire (mm²)
FLLE2001AS(1)(2)	51	45	28	130	6.3 x 0.8		0.75
FLLE2003AS(1)(2)	65	50	40	280	6.3 x 0.8		0.75
FLLE2006AS(1)(2)	91	51	45	410	6.3 x 0.8		1.5
FLLE2010AS(1)(2)	91	51	45	410	6.3 x 0.8		1.5
FLLE2013AS(1)(2)	130.5	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 (Lenght = 140±5 mm)

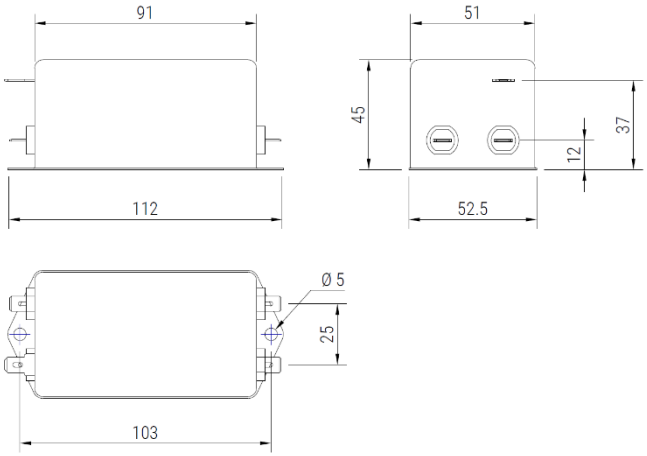
1A



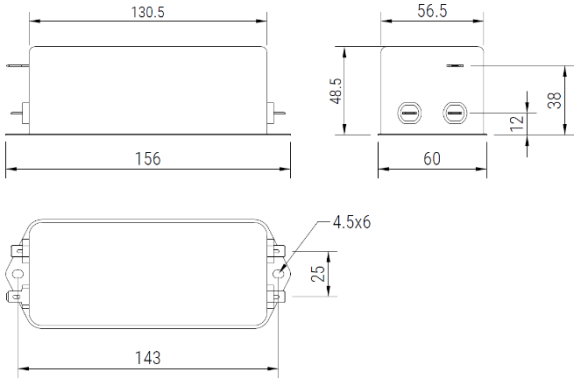
3A



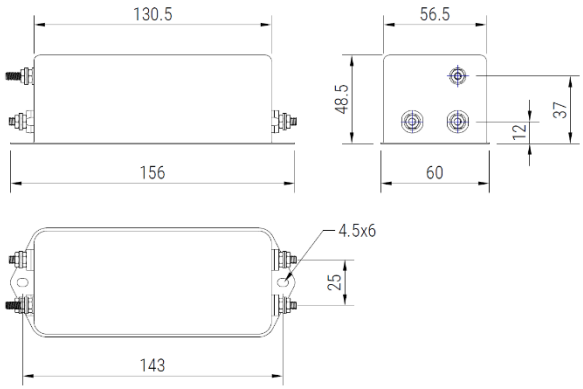
6A and 10A



13A and 16A



20A, 25A and 32A



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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 required