ELCOM

El.italia EC-EC47 serie

General Purpose AC EMI Filter

CSA c us   CE   RoHS COMPLIANT

Technical specifications

Operating voltage	440 VAC
Current rating	1100A-1600A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC
	P -> P 2121VDC
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°c

*Image shown is for illustrative purpose only

Features and benefits

- Filters available in single stage.
- All filters provide high attenuation performance.
- Two stage filters designed for noisy application requiring excellent filter performance.
- All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- High reliable
- Easy and fast chassis mountable filter with compact size.
- CRCA metal can with nickel plating provides good aesthetic and corrosion protection.

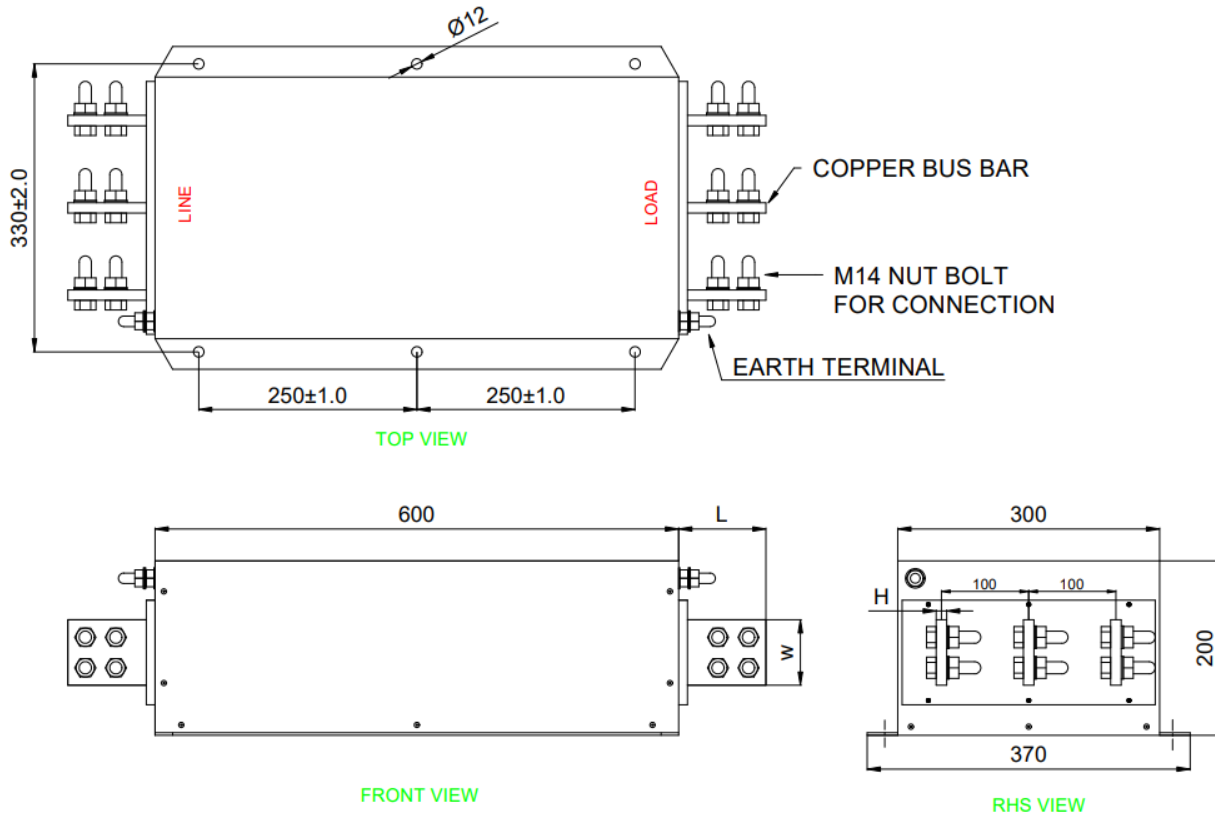## Attenuation Type

Single Stage	Standard

Applications

- Consumer product
- Defence application
- Industrial application
- Automotive application
- Weighting Machines
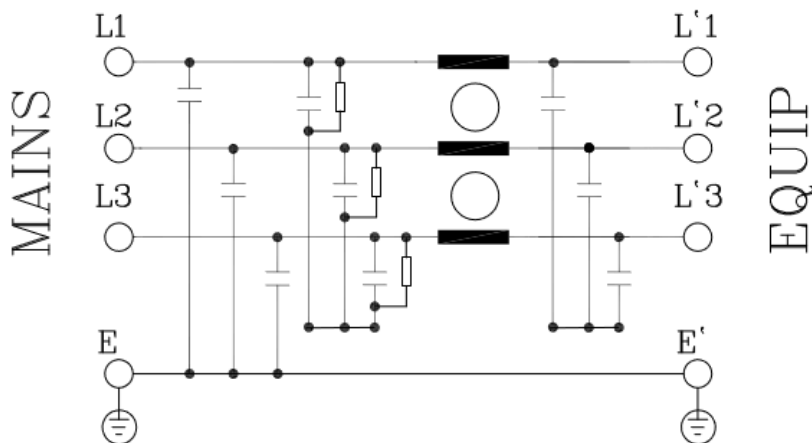- Printing Machinery
- Electrical equipment application

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Mechanical details

Ø12

330±2.0

LINE

LOAD

COPPER BUS BAR

M14 NUT BOLT
FOR CONNECTION

EARTH TERMINAL

250±1.0   250±1.0

TOP VIEW

600   L

w

FRONT VIEW

300

H   100   100

200

370

RHS VIEW

All dimensions in mm
General tolerance = ±2%

Electrical schematic for Single Stage Filter

General purpose –
CKT-1

MAINS

L1   L'1
L2   L'2
L3   L'3

E   E'
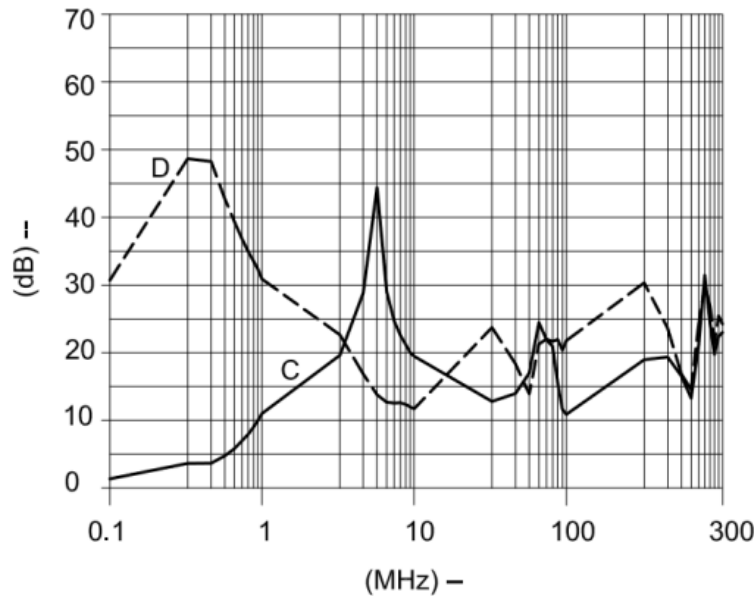
EQUIP

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Filter attenuation Graph

C = Common mode (asymmetrical) ——————   D = Differential mode (symmetrical) ---------------

For general application (Single Stage)

For 1100A to 1600A

Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @440VAC	Bus bar	Approx. Weight (Kg)	Attenuation
1	EF-3A1K3E01E-C57	1300	< 3.5	E	40	Standard
2	EF-3A1K6E01E-C57	1600	< 3.5	E	45	Standard

- Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
- Protecting cover will provided on request.
- Customize products provided on request.

Connection Type :

Current Rating (A)	Busbar details				Earthing
	L (mm)	W (mm)	H (mm)	Screw for connection	
1300	100	40	15	M14	M12
1600	100	70	10	M14	M12

Syntax

EF – 3A CCC X YY E–C47

Filter series	
E	(CSA us CE RoHS COMPLIANT)
01	Single stage
E	Busbar terminal
1K0 to 1K6	Rated current
3A	Three phase three wire 440VAC (P-P)