# Datasheet | EC48



## **General Purpose AC EMI Filter**



\*Image shown is for illustrative purpose only

### **Features and benefits**

- Filters available in single stage and double 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
- Chassis mountable filter in fabricated metal can.
- Aluminium metal casing provides good aesthetic and corrosion protection.
- Filters available in medical version without capacitor to earth.
- With surge suppressor filters also available.

## Application

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

## Conformance



## **Technical Specifications**

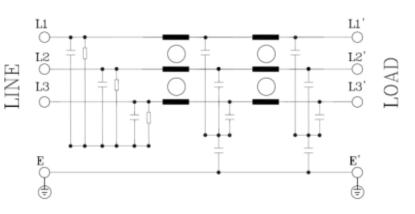
Operating voltage	440 VAC
Current rating	1A - 40A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°C

## **Attenuation type**

Double Stage

High

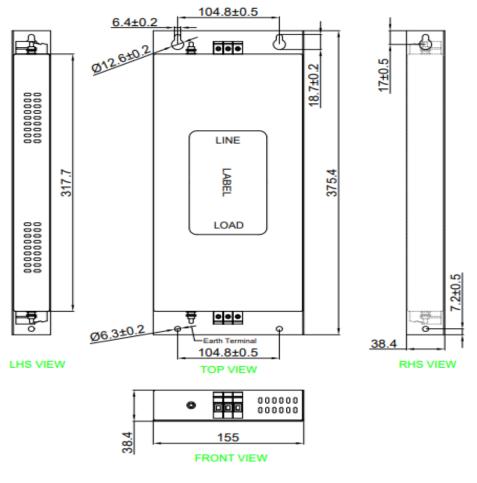
#### Electrical schematic for filter: CKT-1



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## **Mechanical Details**



All dimensions in mm General tolerance =±2%

## **Filter Selection Table**

	Elcom part codes	Rated Current	Leakage current	Terminals (X)		
Sr. No.	(ordering code)	rating (A) @40°c	(mA) @440VAC	Touch safe	Approx. Weight (Kg)	Attenuation
1	EF-3A020F24G-C48	20	< 3.5	F	1.5	High
2	EF-3A025F24G-C48	25	< 3.5	F	1.5	High
3	EF-3A030F24G-C48	30	< 3.5	F	1.5	High

## **Connection Method**

Current Rating (A)	Touch safe	Earthing
1A-40A	6 sqmm	M4 screw



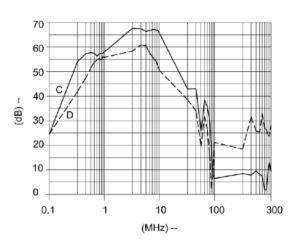


#### Filter attenuation graph

C = Common mode (asymmetrical) —

D = Differential mode (symmetrical) - - - - - -

For general application (Double Stage)



20A,25A & 30A

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