

High attenuation AC EMI Filter

El.italia EC-EC51 serie



*Image shown is for illustrative purpose only

Technical specifications

Operating voltage	440 VAC/480 VAC /520VAC
Current rating	100A-300A
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

Features and benefits

- | Filters available in single stage, double stage & triple stage.
- | All filters provide high attenuation performance.
- | 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.
- | Various terminal options are available

Attenuation Type

Single Stage	Standard
Double Stage	High
Triple Stage	Very High

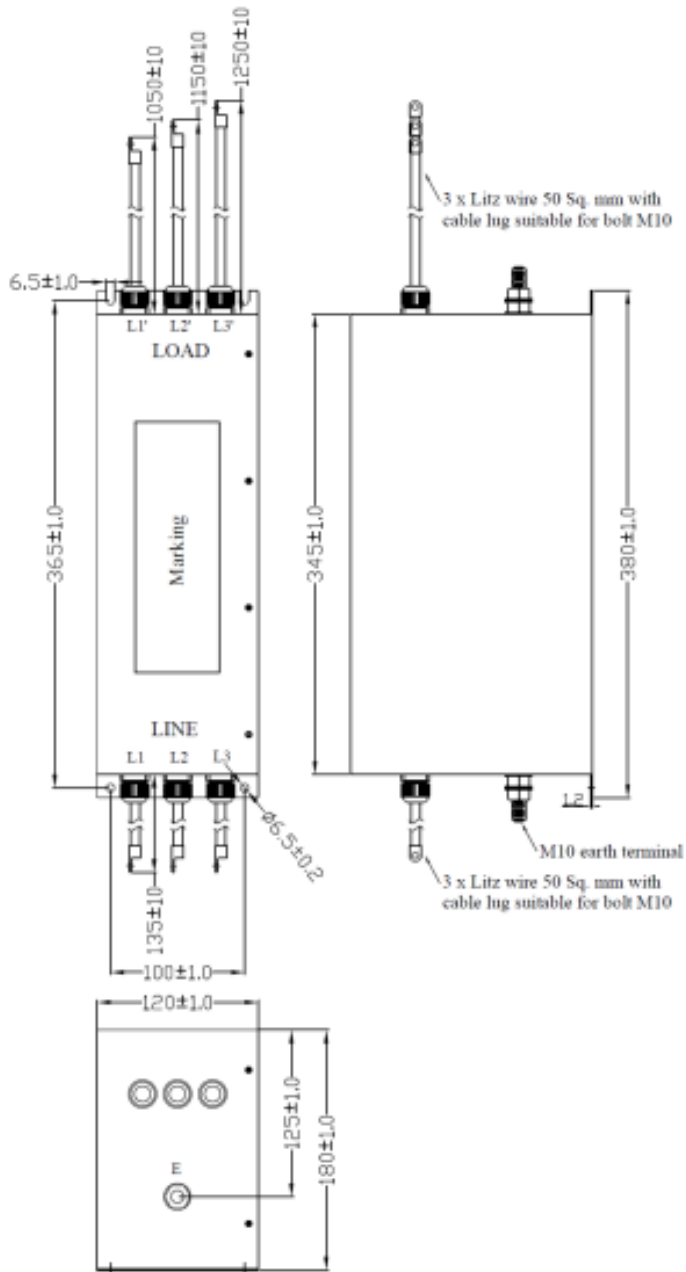
Applications

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

Mechanical details

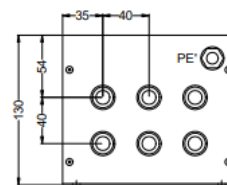
For wire lead terminal

For 140A

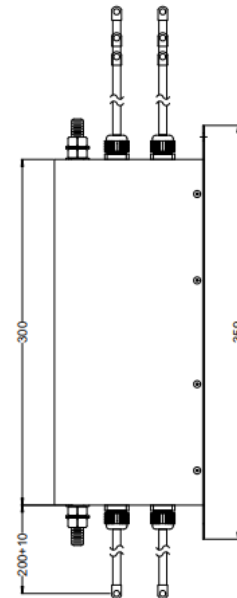
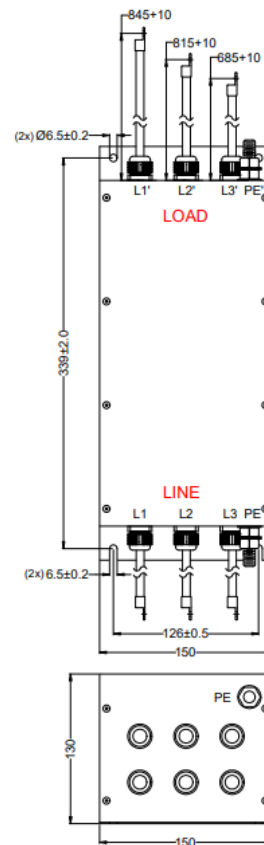


For wire lead terminal

For 188A,222A,284A

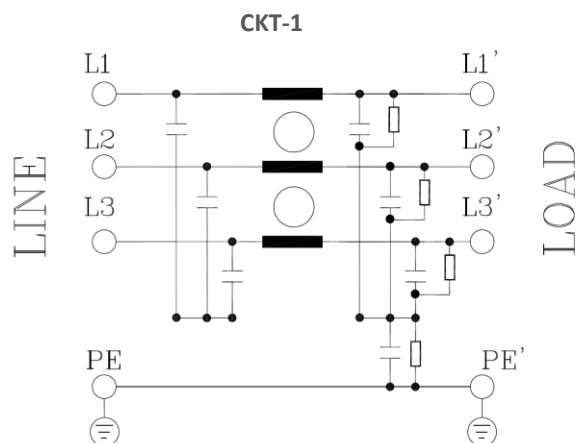


	Line side cable length with lugs center	Load side cable length with lugs center
L1	200+10mm	L1' 845+10mm
L2	200+10mm	L2' 815+10mm
L3	200+10mm	L3' 685+10mm

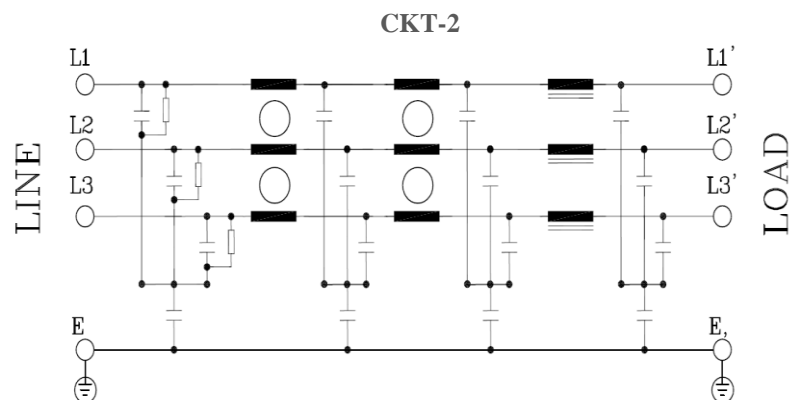


Electrical schematic for Single Stage Filter

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Electrical schematic for Triple Stage Filter



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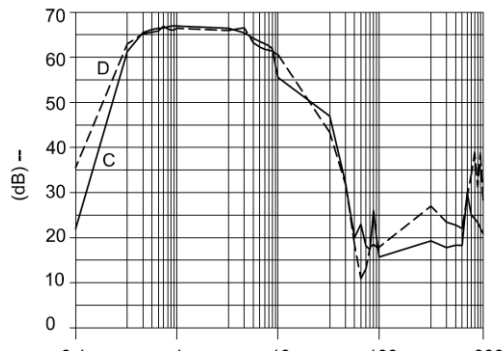
Filter attenuation Graph

C = Common mode (asymmetrical) —————

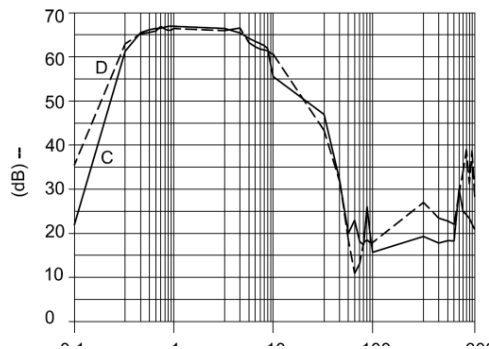
D = Differential mode (symmetrical) - - - - -

For Single Stage (CKT 1)

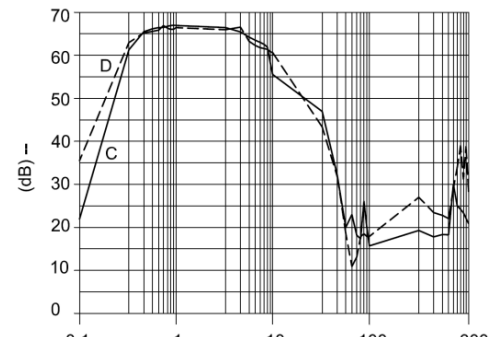
For 188A



For 222A

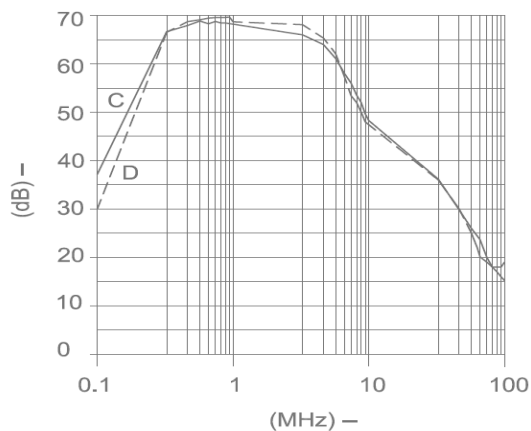


For 284A





For Triple Stage (CKT 2)

For 140A & 170A



Filter Selection Table

El.italia EC-EC51 serie

Sr. No.	Elcom part codes (ordering code)	Current rating (A)	Leakage current (mA) @440V AC	Terminals (X)		Weight (Kg)	Attenuation
				Wire 	Touch - safe 		
1	EF-3B140X38G-C51	140	< 6	G	F	8	Very High
2	EF-3B188X06G-C51	188	< 15	G	F	9	High
3	EF-3B222X06G-C51	222	< 15	G	F	9	High
3	EF-3B284X06G-C51	284	< 15	G		10	High

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3B140G38G-C51).
- 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.
- Customize products provided on request.

Syntax

EF - 3A CCC X YY G - C51

