



## General Purpose AC EMI Filter

*El.italia EC-EC65 serie*



\*Image shown is for illustrative purpose only

### Technical specifications

Operating voltage	440VAC (P-P)
Current rating	180A - 250A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P ->P 2121VDC
Insulation resistance	≥ 300 MΩ @ 500VDC (P→E)
Operating temperature	40°c / -25°c +85°c

### Features and benefits

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

### Attenuation Type

Single Stage	Standard
Double Stage	High

### Applications

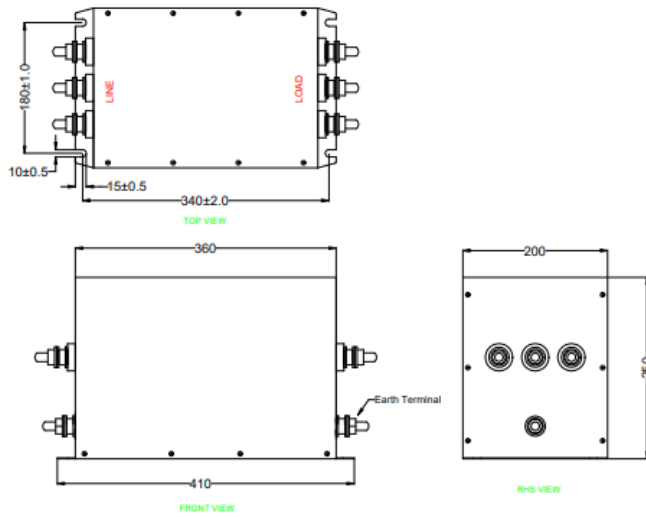
- | Consumer product
- | Defence application
- | Medical equipment
- | Industrial application
- | Automotive application
- | Weighting Machines
- | Printing Machinery
- | Electrical equipment application
- | Office automation equipment



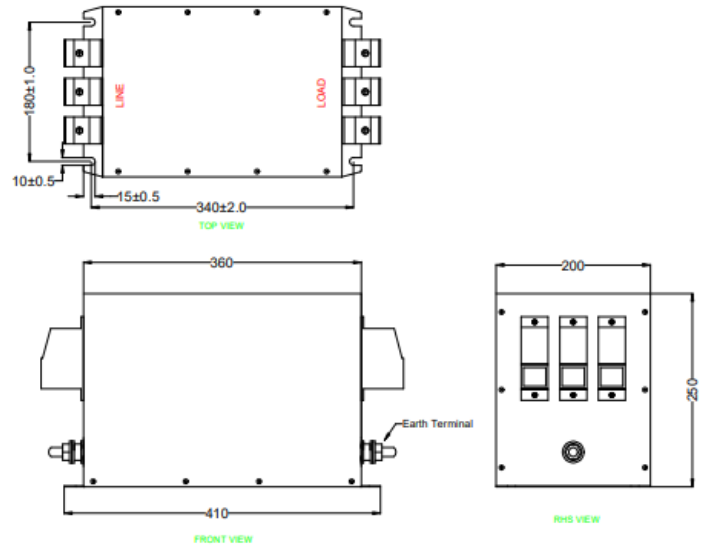
## Mechanical details

### El.italia EC-EC65 serie

#### For screw terminal



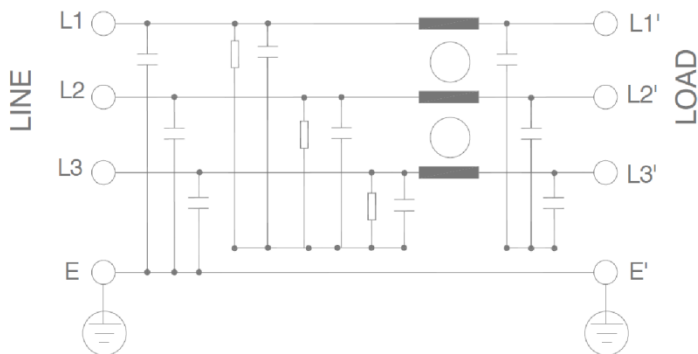
#### For touch safe terminal



All dimensions in mm  
General tolerance = ±2%

## Electrical schematic for Single Stage Filter

### General purpose –

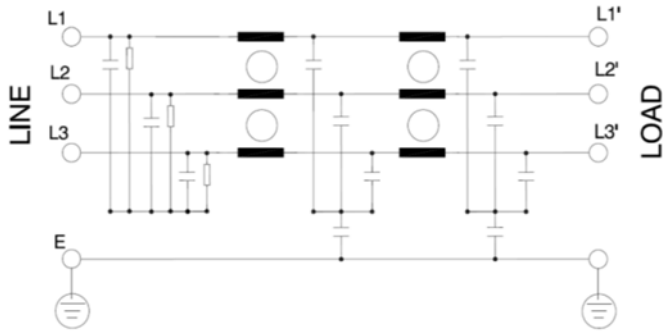




## Electrical schematic for double stage filter

*El.italia EC-EC65 serie*

General Purpose -

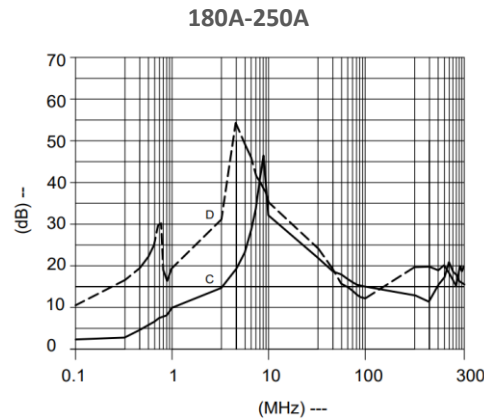


## Filter attenuation graph

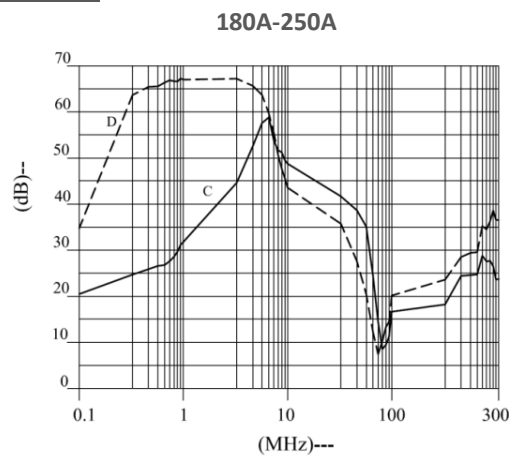
C = Common mode (asymmetrical) —————

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

For general application (Single Stage)



For general application (double Stage)





## El.italia EC-EC65 serie

### Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @250VAC	Terminals (X)		Approx. Weight (Kg)	Attenuation
				Screw	Touchsafe		
1	EF-3A180X01G-C65	180	< 3.5	D	F	10	Standard
2	EF-3A200X01G-C65	200	< 3.5	D	F	10	Standard
3	EF-3A250X01G-C65	250	< 3.5	D	F	10	Standard
4	EF-3A180X20G-C65	180	< 3.5	D	F	10	High
5	EF-3A200X20G-C65	200	< 3.5	D	F	10	High
6	EF-3A250X20G-C65	250	< 3.5	D	F	10	High

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A180D01G-C65)
- Customize products provided on request.

### Connection Type

Current Rating (A)	Screw terminal details		Touch safe terminal details		Earthing screw terminal details
	Screw	Recommended tightening torque	Touch safe	Recommended tightening torque	
180	M12	35-40Kgcm	95 sqmm	132-177 lbf.in	M10
200	M12	35-40Kgcm	95 sqmm	132-177 lbf.in	M10
250	M12	35-40Kgcm	150 sqmm	50-60 lbf.in	M12



## Syntax

## El.italia EC-EC65 serie

EF - 3A CCC X YY G - C65

