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General Purpose AC EMI Filter



^{*}Image shown is for illustrative purpose only

Features and benefits

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

Application

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

Conformance



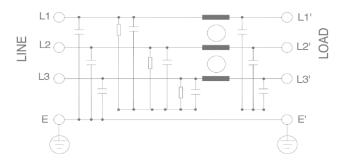
Technical specifications

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

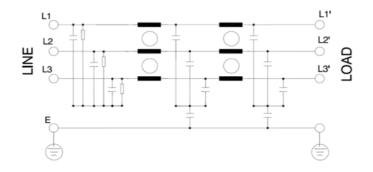
Attenuation type

Single Stage	Standard
Double Stage	High

Electrical schematic for Single stage filter



Electrical schematic for Double stage filter



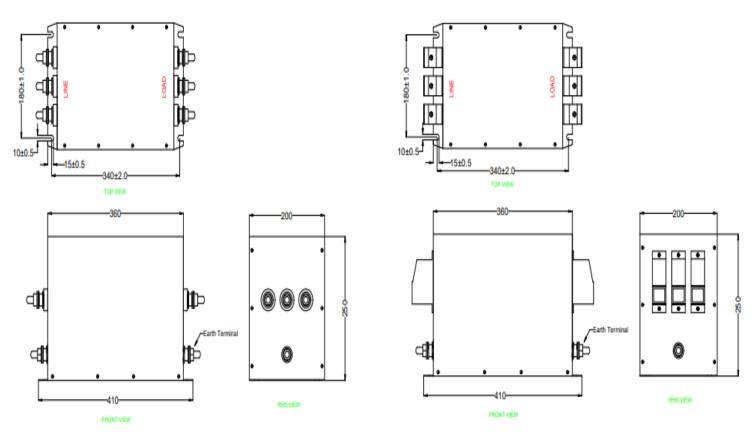
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Mechanical Details

screw terminal

touch safe terminal



*All dimensions are in mm. General tolerance=±2%

Filter Selection Table

		Rated	Leakage current (mA) @250VAC	Terminals (<u>×</u>)			
Sr. No	Elcom part codes (ordering code)	Current rating (A) @40°c		Screw	Touchsafe	Approx. Weight (Kg)	Attenuation
1	EF-3A180 <u>X</u> 01G-C65	180	< 3.5	D	F	10	Standard
2	EF-3A200 <u>X</u> 01G-C65	200	< 3.5	D	F	10	Standard
3	EF-3A250 <u>X</u> 01G-C65	250	< 3.5	D	F	10	Standard
4	EF-3A180 <u>X</u> 20G-C65	180	< 3.5	D	F	10	High
5	EF-3A200 <u>×</u> 20G-C65	200	< 3.5	D	F	10	High
6	EF-3A250 <u>×</u> 20G-C65	250	< 3.5	D	F	10	High

- $\qquad \text{To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A180\underline{D}01G-C65)}$
- Customize products provided on request.

Connection Type

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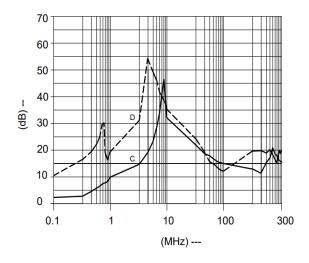


Comment	Screw terminal details		Touch safe terminal details		Fouthing
Current Rating (A)	Screw	Recommended tightening torque	Touch safe	Recommended tightening torque	Earthing screw terminal details
180	M12	35-40Kgcm	95 sqmm	132-177 lbf.in	M10
200	M12	35-40Kgcm	95 sqmm	132-177 lbf.in	M10
250	M12	35-40Kgcm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

Filter attenuation graph

C = Common mode (asymmetrical) ————

For general application (Single Stage 180A-250A



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

For general application (double Stage) **180A-250A**

