

Datasheet | EC37 (EP-355WON Series)



General Purpose AC EMI Filter

El.italia EC-EC37 [EP-355WON] serie



*Image shown is for illustrative purpose only



Technical specifications

Operating voltage	440VAC (P-P)
Current rating	50A - 80A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> P 2121VDC (applicable for general purpose filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (P→E)
Operating temperature	40°c / -25°c +85°c

Features and benefits

- | All filters provide high attenuation performance.
- | All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- | Single stage.
- | High reliable
- | Chassis mountable filter in fabricated metal can.
- | CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- | General purpose filter with low leakage current for safety critical application.
- | With surge suppressor filters also available.
- | Various terminal options are available.

Attenuation type

Single Stage

Standard

Application

- | Electrical and electronic equipment
- | Test & measurement equipment
- | 3 Phase motor drive
- | Inverters and converters
- | Industrial automation application UPS, SMPS
- | Laser cutting tools
- | Packaging and drilling machine
- | Printing machine

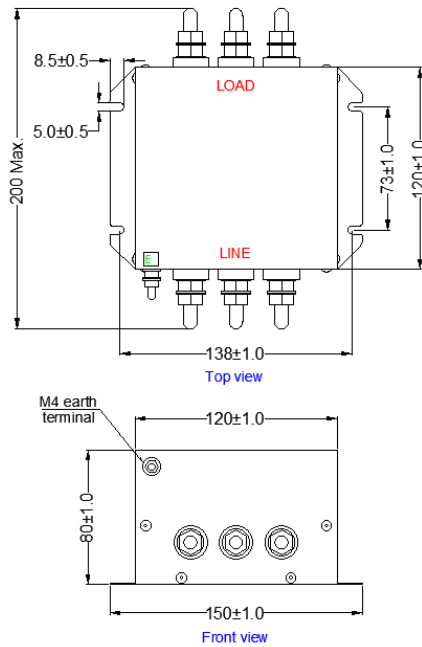
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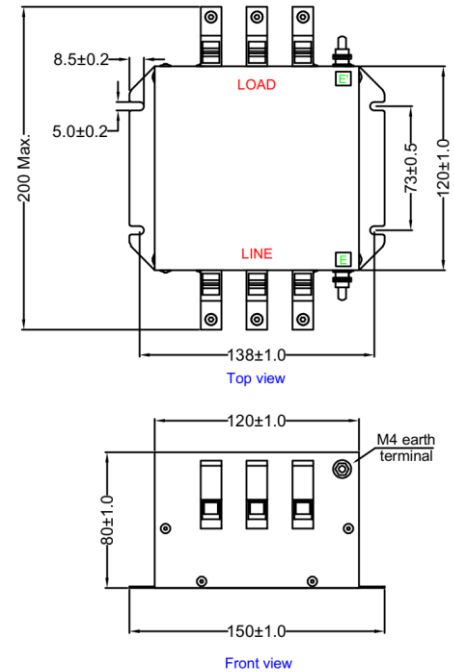
Mechanical details

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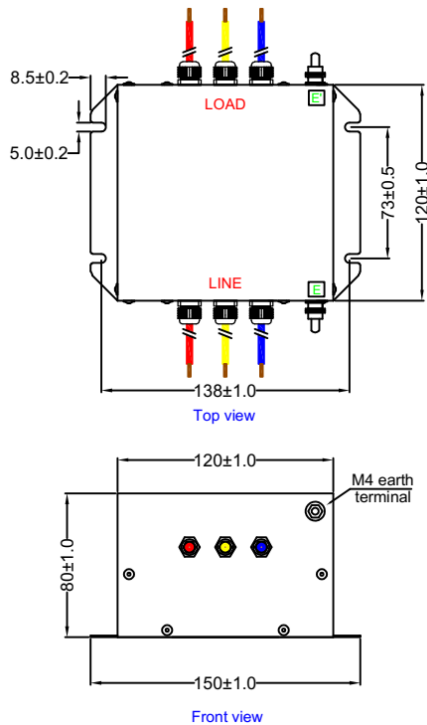
Screw terminal



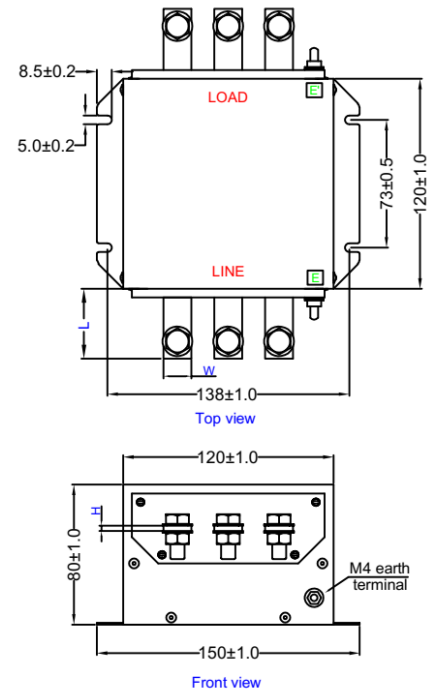
Touch safe terminal



Wire Terminal



Busbar Terminal

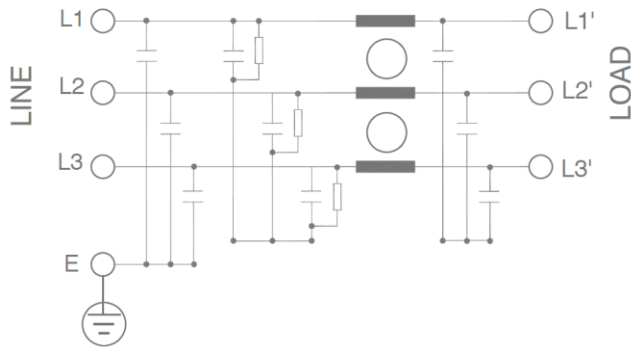


*All dimensions are in mm.

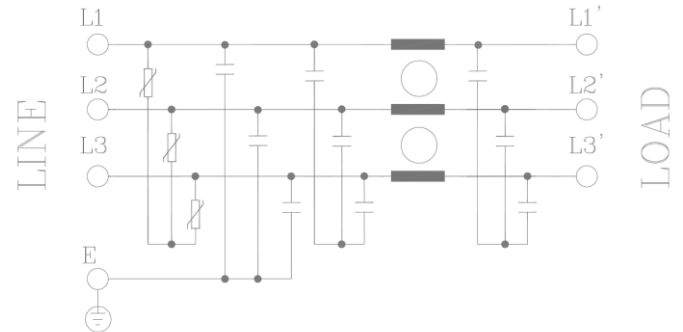
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Electrical schematic for filter

General purpose -



General purpose with surge suppressor -



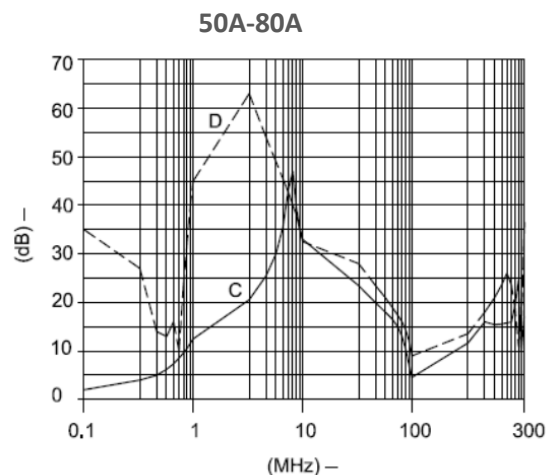
*Note - For Touchsafe/Wire/Busbar terminal, earthing terminal provided on both sides.

Filter attenuation graph

C = Common mode (asymmetrical) —————

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

For general purpose



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Filter selection table

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Sr. No.	Elcom part codes (ordering code)	Current rating (A)	Leakage current (mA) @250V AC	Terminals (X)				Max. Peak current (8/20 μ sec 1 time) (KA)	Energy surge rating (10/1000 μ sec) (J)	Weight (Kg)	Attenuation
				Screw 	Busbar 	Touch - safe 	Wire 				
1	EF-3A050X01E-C37	50	< 1.8	D	E	F	G	----	----	2	Standard
2	EF-3A050X02E-C37	50	< 1.8	D	E	F	G	10	350	2	Standard
3	EF-3A050X12E-C37	50	< 1.8	D	E	F	G	10	350	2	Standard
4	EF-3A060X01E-C37	60	< 1.8	D	E	F	G	----	----	2	Standard
5	EF-3A060X02E-C37	60	< 1.8	D	E	F	G	10	350	2	Standard
6	EF-3A060X12E-C37	60	< 1.8	D	E	F	G	10	350	2	Standard
7	EF-3A080X01E-C37	80	< 1.8	D	E	F	G	----	----	2.5	Standard
8	EF-3A080X02E-C37	80	< 1.8	D	E	F	G	10	350	2.5	Standard
9	EF-3A080X12E-C37	80	< 1.8	D	E	F	G	10	350	2.5	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A050D01E-C37)
- 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.

Connection type

Current Rating (A)	Screw terminal details		Bus bar terminal details		Touch safe terminal details		Wire terminal details (AWG)	Earthing screw terminal details
	Screw	Recommended tightening torque	Bus bar (LxWxH)	connection screw terminal	Touch safe	Recommended tightening torque		
50	M6	20-25Kgcm	40x10x2.5	M8	16 Sq.mm	22-25 lbf.in	8AWG	M4
60	M6	20-25Kgcm	40x10x2.5	M8	16 Sq.mm	22-25 lbf.in	8AWG	M4
80	M8	25-30Kgcm	40x10x2.5	M8	16 Sq.mm	22-25 lbf.in	6AWG	M4

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Syntax

EF - 3A CCC X YY E - C37

