

Datasheet | EC38 (EP-355WON Series)



High attenuation AC EMI Filter

El.italia EC-EC38 [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
Insulation resistance	$\geq 300 \text{ M}\Omega$ @ 500VDC (P→E)
Operating temperature	40°C / -25°C +85°C

Features and benefits

- | Filters available in 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
- | 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

Double stage **High**

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

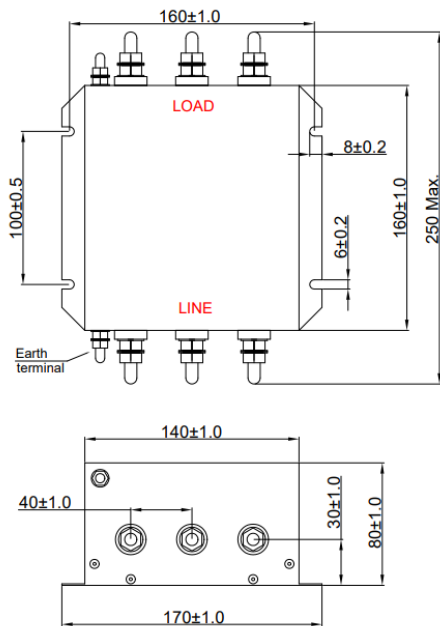
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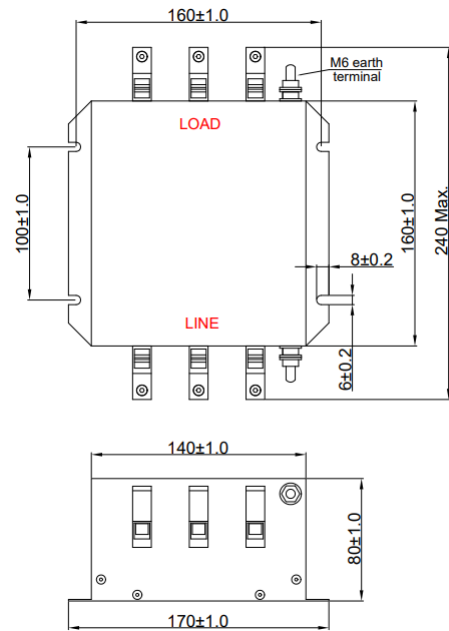
Mechanical details

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Screw terminal

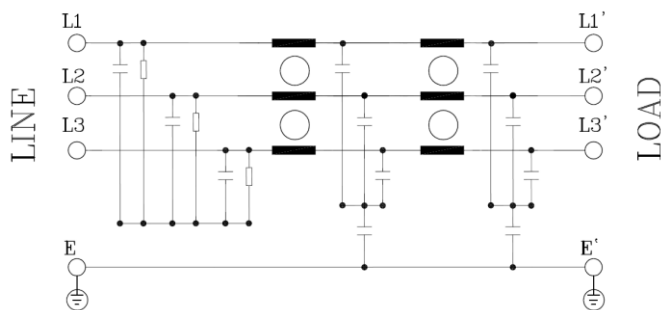


Touch safe terminal



*All dimensions are in mm.
General tolerance=±1mm

Electrical schematic for filter



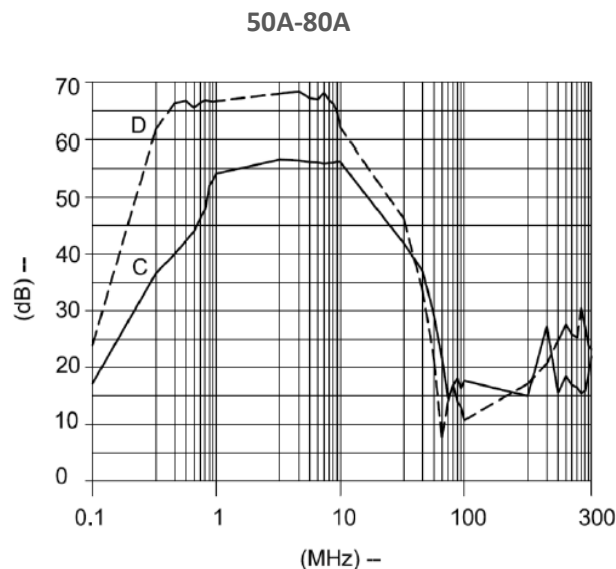
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Filter attenuation graph

C = Common mode (asymmetrical) —————

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



Filter selection table

Sr. No.	Elcom part codes (ordering code)	Current rating (A)	Leakage current (mA) @440V AC	Terminals (X)		Weight (Kg)	Attenuation
				Screw 	Touch - safe 		
1	EF-3A050X24G-C38	50	< 3.5	D	F	3.5	Standard
2	EF-3A060X24G-C38	60	< 3.5	D	F	3.5	Standard
3	EF-3A080X24G-C38	80	< 3.5	D	F	3.5	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A050D24G-C38)
- 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.

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Connection type

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Current Rating (A)	Screw terminal details		Touch safe terminal details		Earthing screw terminal details
	Screw	Recommended tightening torque	Touch safe	Recommended tightening torque	
50	M6	20-25Kgcm	16 Sq.mm	22-25 lbf.in	M6
60	M6	20-25Kgcm	16 Sq.mm	22-25 lbf.in	M6
80	M8	25-30Kgcm	16 Sq.mm	22-25 lbf.in	M6

Syntax

EF – 3A CCC X YY G - C38

