

# Datasheet | EC39

## EP-355WON Series



### General Purpose AC EMI Filter

### Approvals /Conformance



\*Image shown is for illustrative purpose only

### Technical Specifications

Operating voltage	440VAC (P-P)
Current rating	100A - 150A
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.

### Application

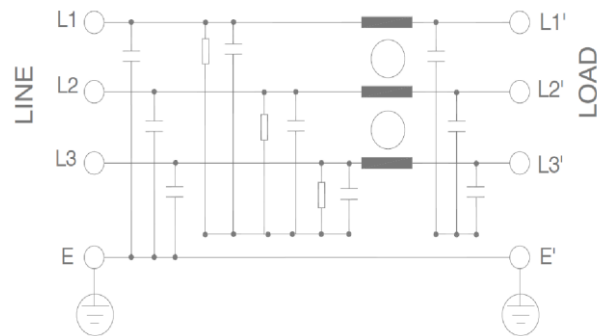
- | Electrical and electronic equipment
- | Test & measurement equipment
- | 3 Phase motor drive
- | Inverters and converters
- | Industrial automation application UPS, SMPS
- | Laser cutting tools
- | Packaging and drilling machine
- | Printing machine

### Attenuation type

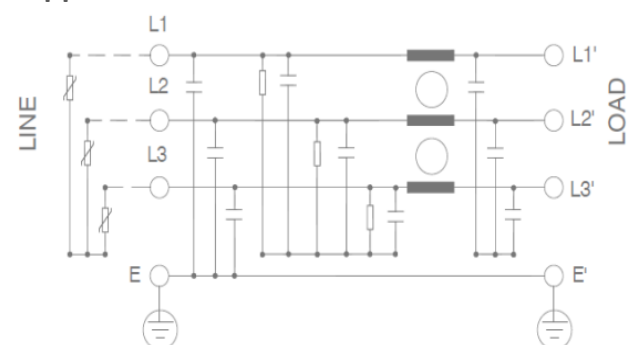
Single Stage **Standard**

### Electrical schematic for filter:

#### General Purpose -



#### General Purpose with externally connected Surge Suppressor -



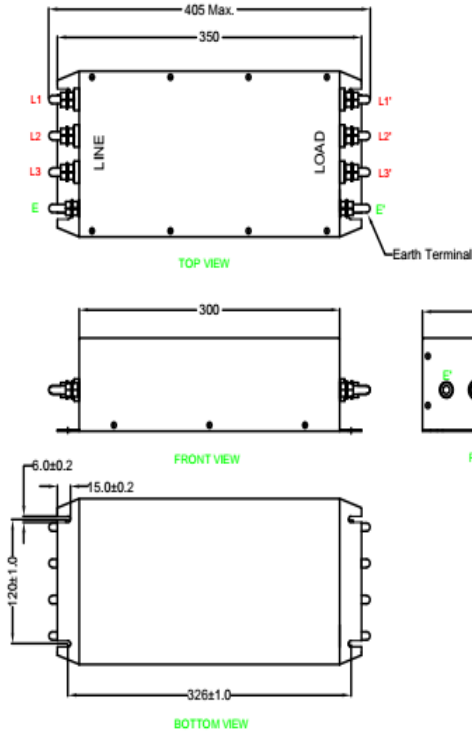
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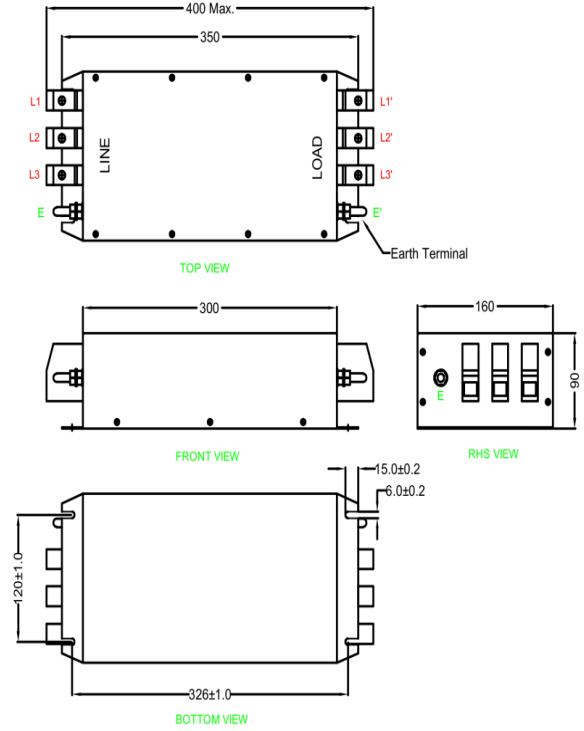


### Mechanical Details

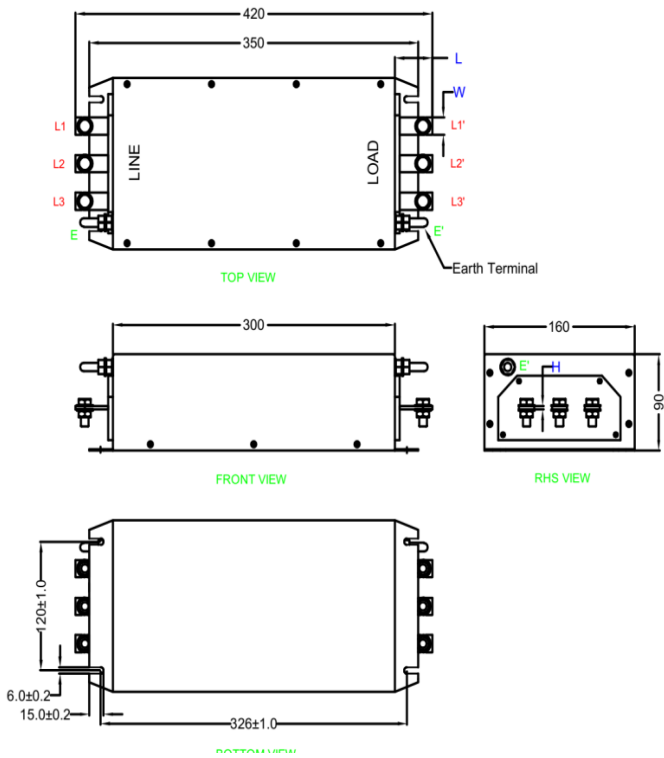
#### Screw terminal



#### Touch safe terminal






#### Busbar Terminal



All dimensions are in mm.  
General tolerance  $\pm 2\%$

### Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @440VAC	Terminals (X)			Max. Peak current (8/20 μ sec 1 time) (KA)	Energy surge rating (10/1000 μ sec) (Joules)	Approx. Weight (Kg)	Attenuation
				Screw 	Bus bar 	Touch-safe 				
1	EF-3A100X01E-C39	100	< 3.5	D	E	F	----	----	5	Standard
2	EF-3A100X12E-C39	100	< 3.5	D	E	F	10	350	5	Standard
3	EF-3A120X01E-C39	120	< 3.5	D	E	F	----	----	5.5	Standard
4	EF-3A120X12E-C39	120	< 3.5	D	E	F	10	350	5.5	Standard
5	EF-3A150X01E-C39	150	< 3.5	D	E	F	----	----	6	Standard
6	EF-3A150X12E-C39	150	< 3.5	D	E	F	10	350	6	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A010D01E-C39)
- 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 Method

Current Rating (A)	Screw terminal details		Bus bar terminal details		Touch safe terminal details		Earthing screw terminal details
	Screw	Recommended tightening torque	Bus bar (LxWxH)	Connection screw terminal	Touch safe	Recommended tightening torque	
100	M10	35-40Kgcm	40x16x5	M8	50 Sq.mm	38-40 lbf.in	M10
120	M10	35-40Kgcm	40x16x5	M8	50 Sq.mm	38-40 lbf.in	M10
150	M12	35-40Kgcm	40x16x5	M8	50 Sq.mm	38-40 lbf.in	M12

### Filter attenuation graph

C = Common mode (asymmetrical) ————— D = Differential mode (symmetrical) - - - - -

