

Datasheet | EC39

EP-355WON Series



General Purpose AC EMI Filter

El.italia EC-EC39 [EP-355WON] serie



*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	$\geq 300 \text{ M}\Omega$ @ 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

Datasheet | EC39

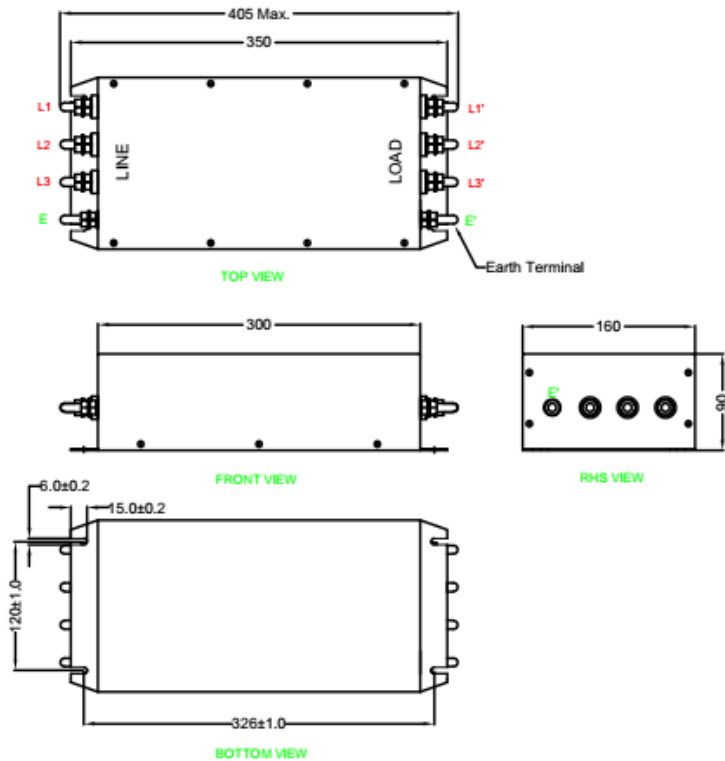
EP-355WON Series



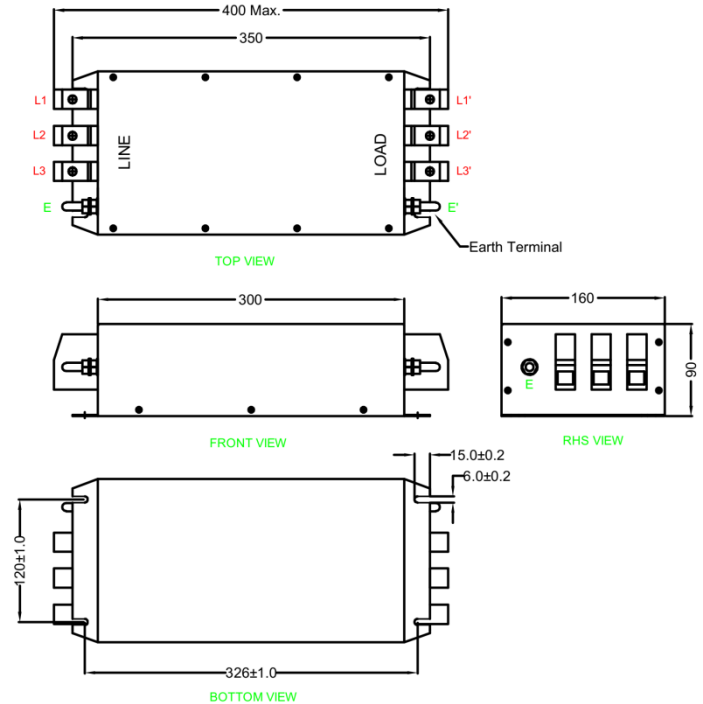
Mechanical details

El.italia EC-EC39 [EP-355WON] serie

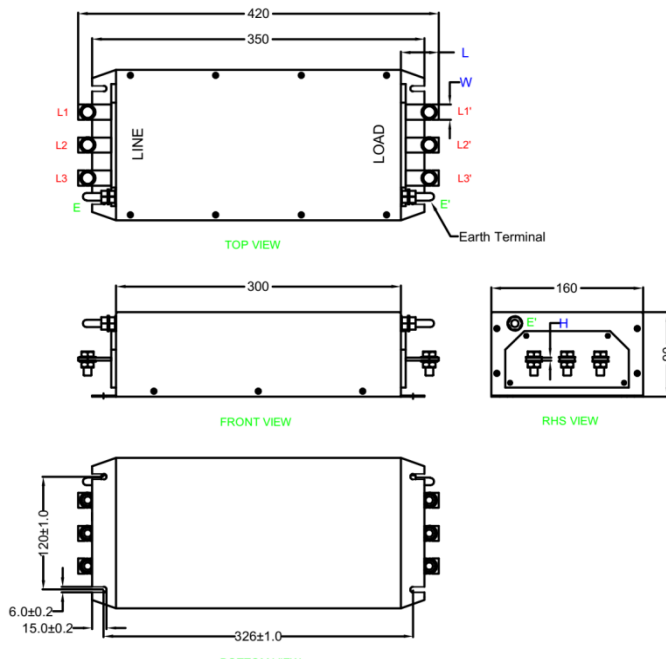
Screw terminal



Touch safe terminal



Busbar Terminal



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

Datasheet | EC39

EP-355WON Series

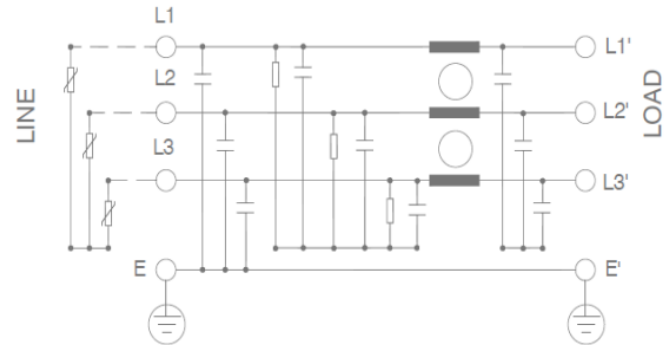
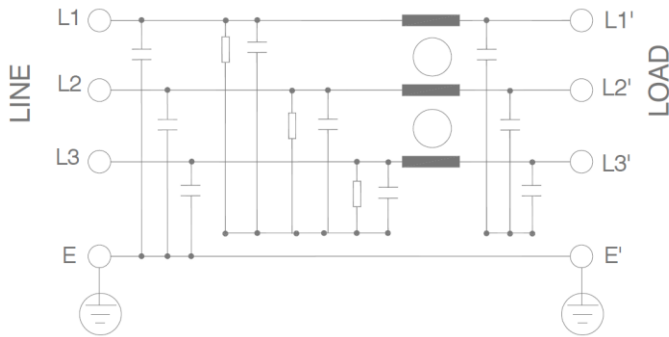


Electrical schematic for filter

El.italia EC-EC39 [EP-355WON] serie

General Purpose -

General Purpose with externally connected Surge Suppressor -

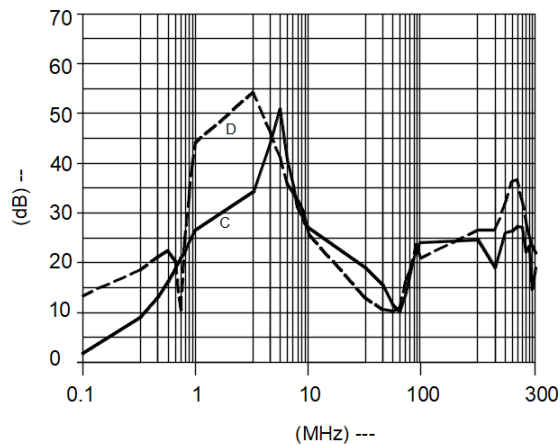


Filter attenuation graph

C = Common mode (asymmetrical) —————

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

100A-150A






Datasheet | EC39

EP-355WON Series



El.italia EC-EC39 [EP-355WON] serie

Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @250VAC	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-3A100D01E-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 Type

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

Datasheet | EC39

EP-355WON Series



El.italia EC-EC39 [EP-355WON] serie

Syntax

EF - 3A CCC X YY E - C39

