

# Datasheet | EC41 EP-355WON Series



General Purpose AC EMI Filter

*El.italia EC-EC41 [EP-355WON] serie*



\*Image shown is for illustrative purpose only



## 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 (applicable for general purpose filter)
Insulation resistance	$\geq 300 \text{ M}\Omega @ 500\text{VDC (P}\rightarrow\text{E)}$
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 | EC41

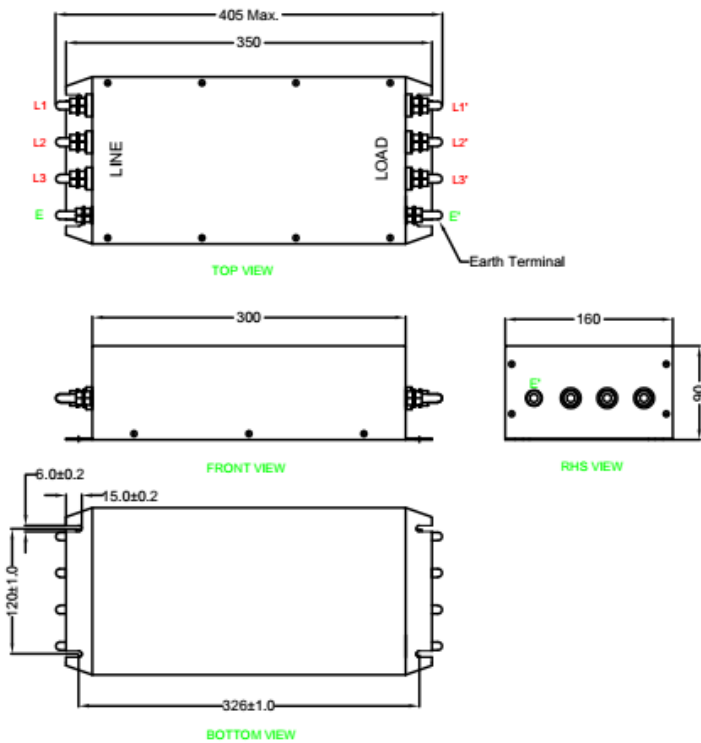
## EP-355WON Series



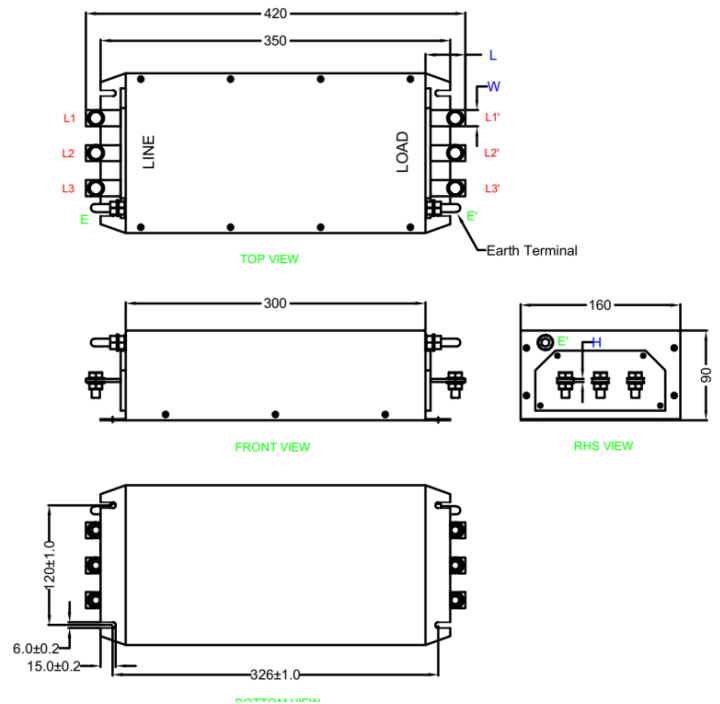
### Mechanical details

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#### Screw terminal



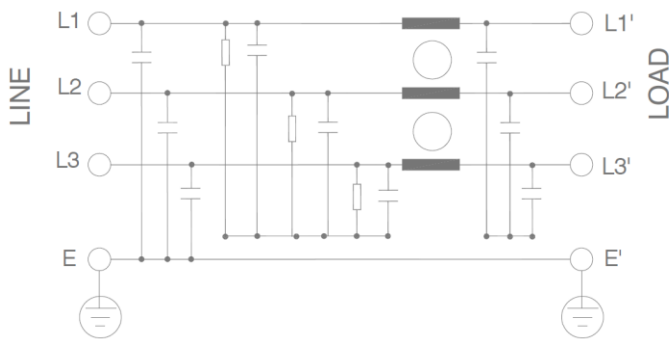
#### Bus bar terminal



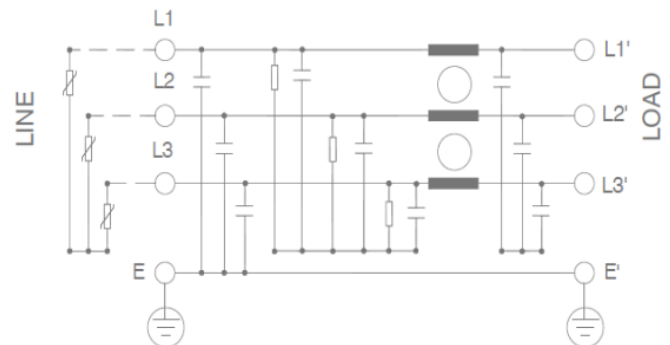
All dimensions are in mm.  
General tolerance  $\pm 2\%$

### Electrical schematic for filter

#### General Purpose -



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



# Datasheet | EC41

## EP-355WON Series

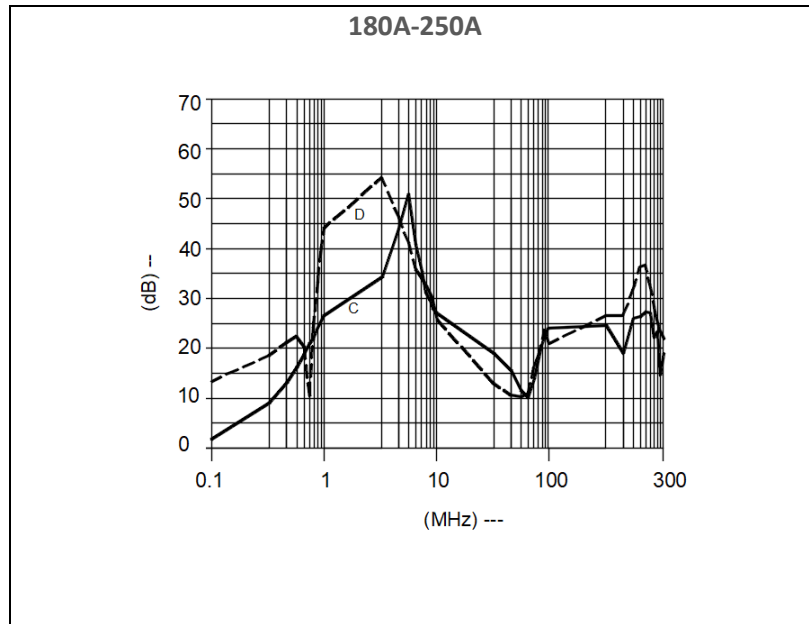


### Filter attenuation graph



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C = Common mode (asymmetrical) —————

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



### 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 				
1	EF-3A180X01E-C41	180	< 3.5	D	E	----	----	10	Standard
2	EF-3A180X12E-C41	180	< 3.5	D	E	10	350	10	Standard
3	EF-3A200X01E-C41	200	< 3.5	D	E	----	----	10	Standard
4	EF-3A200X12E-C41	200	< 3.5	D	E	10	350	10	Standard
5	EF-3A250X01E-C41	250	< 3.5	D	E	----	----	12	Standard
6	EF-3A250X12E-C41	250	< 3.5	D	E	10	350	12	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A180D01E-C41)
- 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.

# Datasheet | EC41

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### Connection Type

Current Rating (A)	Screw terminal details		Bus bar terminal details		Earthing screw terminal details
	Screw	Recommended tightening torque	Bus bar (LxWxH)	connection screw terminal	
180	M12	35-40Kgcm	40x20x5	M8	M10
200	M12	35-40Kgcm	40x20x5	M8	M10
250	M12	35-40Kgcm	40x20x5	M8	M12

### Syntax

EF – 3A CCC X YY E - C41

