

Datasheet | EC83 EP-355WN Series



General Purpose AC EMI Filter

El.italia EC-EC83 [EP-355WN] serie



Image shown is for illustrative purpose only

Technical specifications

Operating voltage	250VAC(P-N)/440VAC(P-P)
Current rating	300-650A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> N 2121VDC (applicable for excluding surge suppressor filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°C / -25°C +85°C

Features and benefits

- | Filters available in single stage
- | All filters provide high attenuation performance.
- | All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- | High reliable
- | Chassis mountable filter in fabricated metal can.
- | CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- | General purpose filters 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

- | Defence application
- | Industrial application
- | UPS
- | Inverters and converters
- | Electrical equipment application
- | Laser cutting tools
- | Test and measurement instruments

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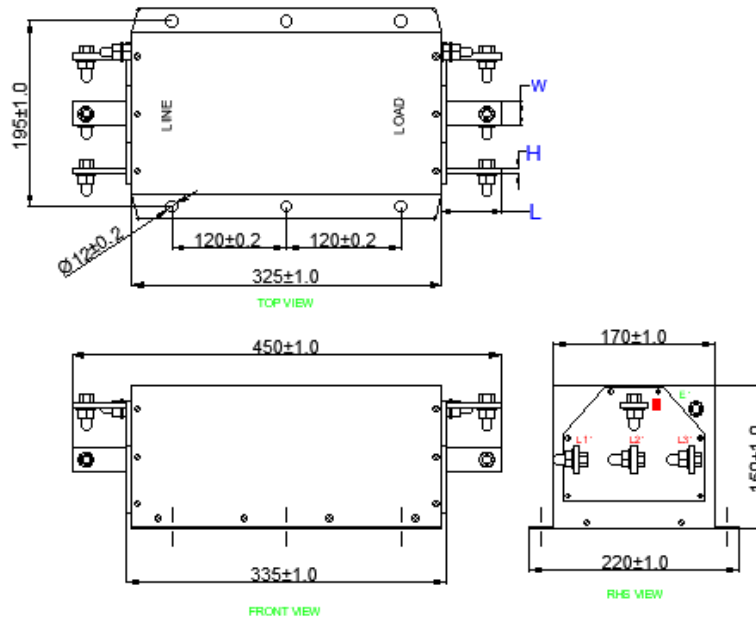
EP-355WN Series



Mechanical details

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I For bus bar terminal

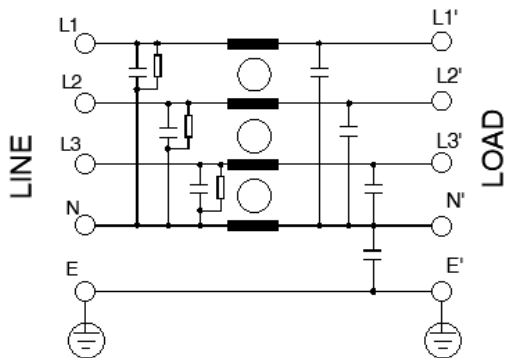


All dimensions in mm

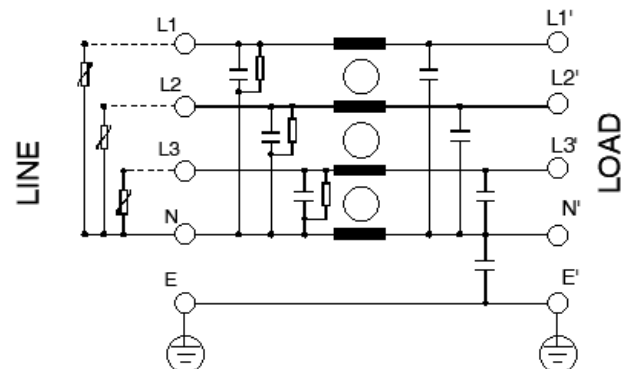
*Note-General tolerance =±2%

Electrical schematic for Single Stage Filter

General purpose -



General purpose with external surge suppressor-



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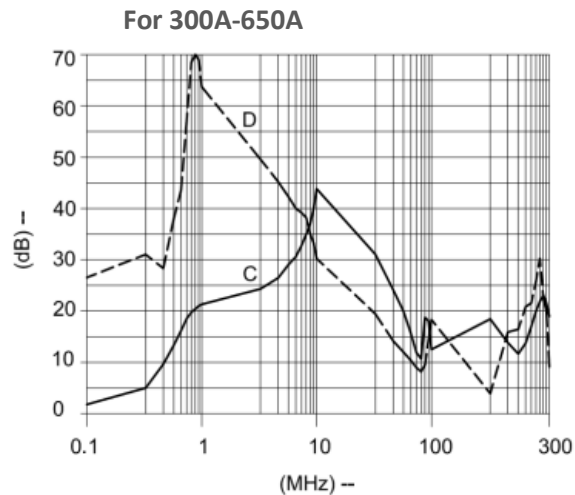


Filter attenuation Graph

C = Common mode (asymmetrical) —————

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

For general application (Single Stage)



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)	Weight (Kg)	Attenuation
				Bus bar				
1	EF-3P300X01E-C83	300	< 1.0	E	----	----	18	Standard
2	EF-3P300X12E-C83	300	< 1.0	E	10	350	18	Standard
3	EF-3P350X01E-C83	350	< 1.0	E	----	----	18	Standard
4	EF-3P350X12E-C83	350	< 1.0	E	10	350	18	Standard
5	EF-3P400X01E-C83	400	< 1.0	E	----	----	18	Standard
6	EF-3P400X12E-C83	400	< 1.0	E	10	350	18	Standard
7	EF-3P450X01E-C83	450	< 1.0	E	----	----	20	Standard
8	EF-3P450X12E-C83	450	< 1.0	E	10	350	20	Standard
9	EF-3P500X01E-C83	500	< 1.0	E	----	----	20	Standard
10	EF-3P500X12E-C83	500	< 1.0	E	10	350	20	Standard

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11	EF-3P550X01E-C83	550	< 1.0	E	----	----	20	Standard
12	EF-3P550X12E-C83	550	< 1.0	E	10	350	22	Standard
13	EF-3P600X01E-C83	600	< 1.0	E	----	----	22	Standard
14	EF-3P600X12E-C83	600	< 1.0	E	10	350	22	Standard
15	EF-3P650X01E-C83	650	< 1.0	E	----	----	22	Standard
16	EF-3P650X12E-C83	650	< 1.0	E	10	350	22	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3P400E01E-C83)
- 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.
- With surge suppressor filter available with externally connected surge suppressor unit.
- Customize products provided on request.

Connection Type

Current Rating (A)	Bus bar (LxWxH) & connection screw terminal	Earthing
300	65x25x6 & M10	M10
350	65x25x6 & M10	M10
400	65x25x8 & M10	M10
450	65x25x8 & M10	M10
500	65x30x8 & M10	M10
550	65x30x8 & M10	M10
600	65x30x8 & M10	M10
650	65x30x8 & M10	M10

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Syntax

EF - 3P CCC X YY Z - C83

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