Datasheet | EC83
EP-355WN Series

General Purpose AC EMI Filter

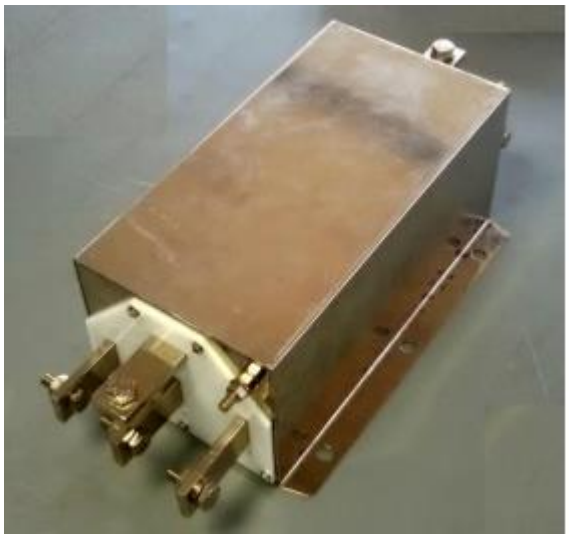


*Image shown is for illustrative purpose only

Approvals /Conformance

Technical Specifications

Operating voltage	250VAC(P-N)/440VAC(P-P)
Current rating	300A - 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.

Application

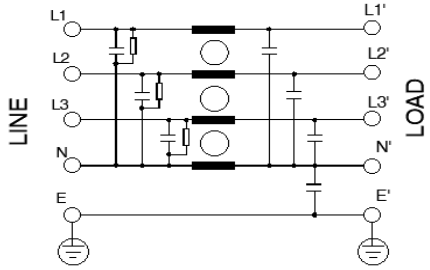
- Defence application
- Industrial application
- UPS
- Inverters and converters
- Electrical equipment application
- Laser cutting tools
- Test and measurement instruments

Attenuation type

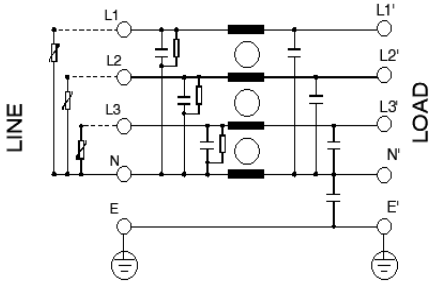
Single Stage **Standard**

Electrical schematic for Single Stage filter:

General purpose –



General purpose with external surge suppressor -



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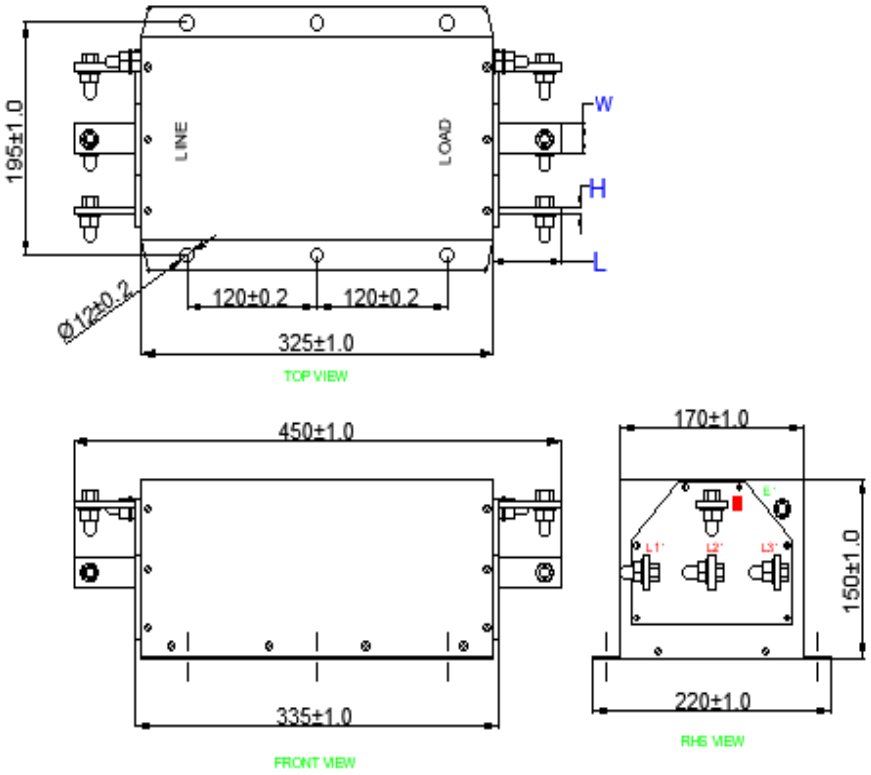
Mechanical Details

bus bar terminal



All dimensions in mm
General tolerance =±2%

Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @440VAC	Terminals (X) Bus bar	Max. Peak current (8/20 µ sec 1 time) (KA)	Energy surge rating (10/1000 µ sec) (Joules)	Weight (Kg)	Attenuation
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

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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
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 Method

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

Filter attenuation graph

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

For general application (Single Stage)

300A-650A