

Datasheet | EC71

EP-355WN Series



General Purpose AC EMI Filter

El.italia EC-EC71 [EP-355WN] serie

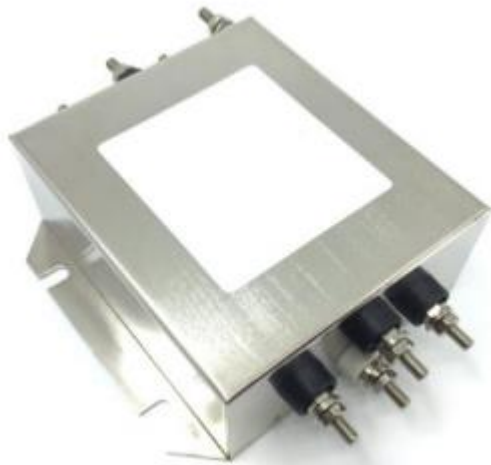


Image shown is for illustrative purpose only

Technical specifications

Operating voltage	250VAC(P-N)/440VAC(P-P)
Current rating	3A-40A
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

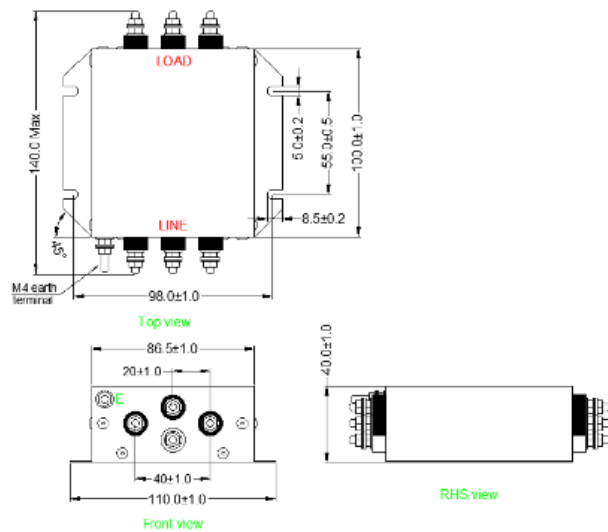
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Mechanical details

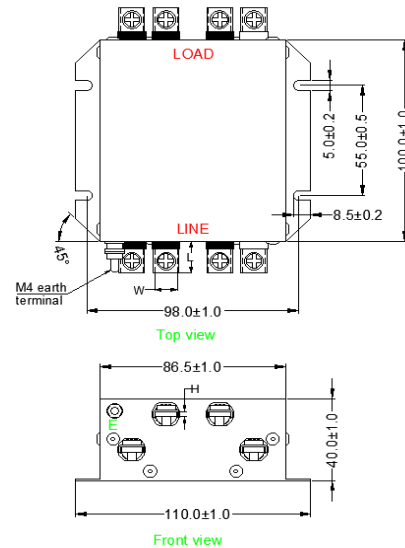
| For screw terminal



All dimensions in mm

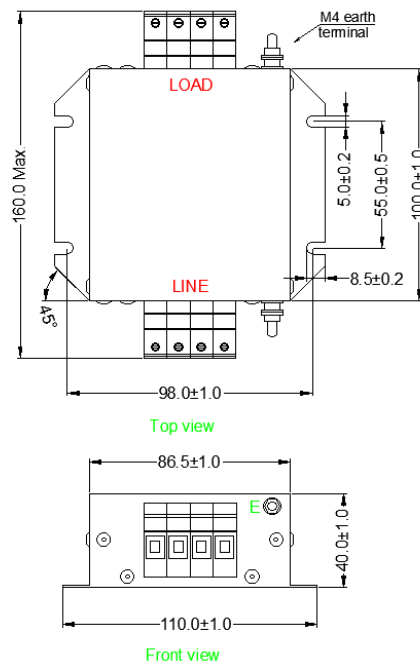
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| For bus-bar terminal



All dimensions in mm

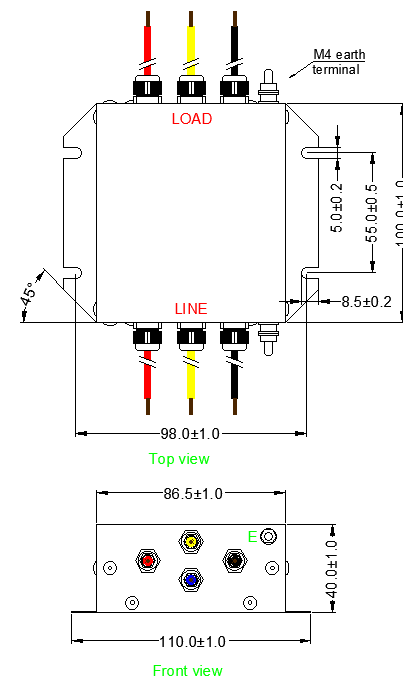
| For touch safe terminal



All dimensions in mm

-Over 40A current rating touch will be unstackable

| For wire terminal



All dimensions in mm



*Note-General tolerance = $\pm$ 2%

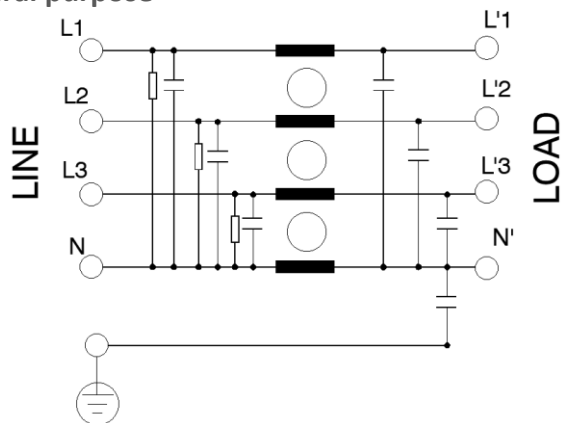
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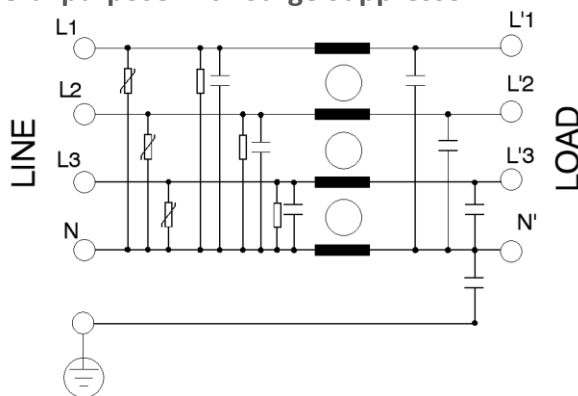
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Electrical schematic for Single Stage Filter

General purpose -



General purpose with Surge Suppressor -



*Note - For Touch safe/Wire/Busbar terminal, earthing terminal provided on both sides.

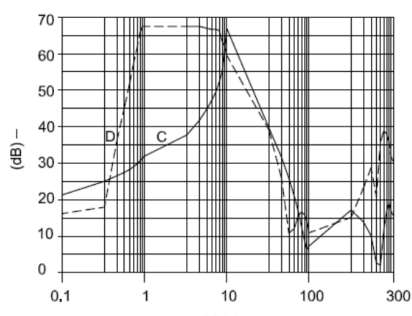
Filter attenuation Graph

C = Common mode (asymmetrical) —————

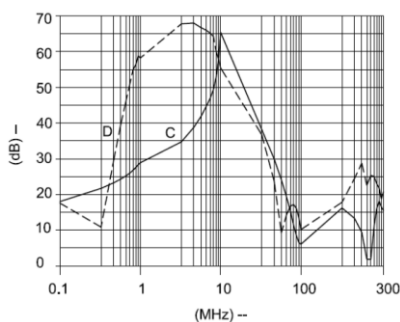
D = Differential mode (symmetrical) - - - - -

For general application (Single Stage)

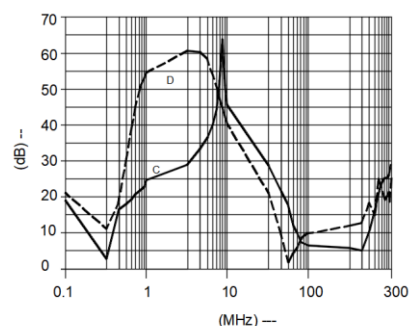
For 3A



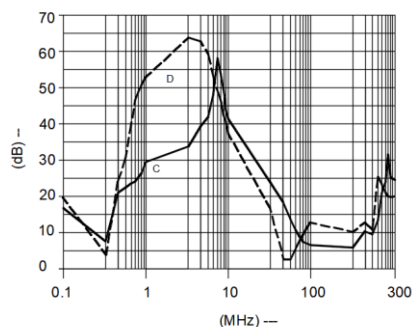
For 6A



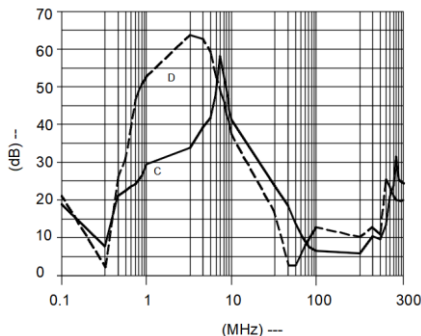
For 10A



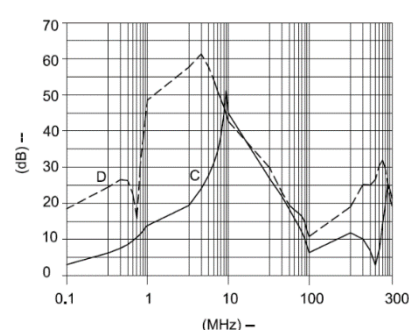
For 15A



For 20A



For 25A



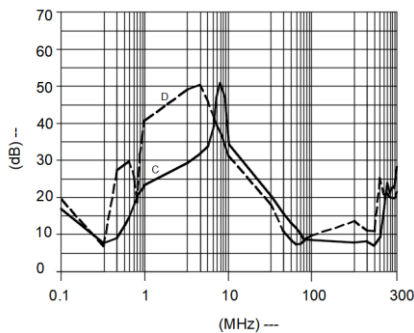
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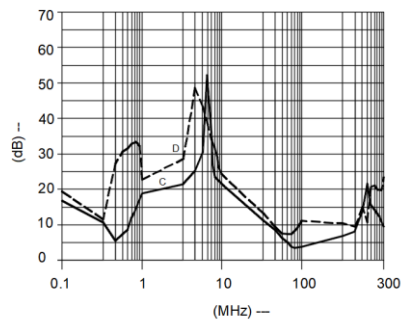


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For 30A



For 40A



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 (gm)	Attenuation
				Screw 	Bus bar 	Touch -safe 	Wire 				
1	EF-3P003X01E-C71	3	< 0.5	D	E	F	G	----	----	500	Standard
2	EF-3P003X02E-C71	3	< 0.5	D	E	F	G	6.5	175	500	Standard
3	EF-3P006X01E-C71	6	< 0.5	D	E	F	G	----	----	500	Standard
4	EF-3P006X02E-C71	6	< 0.5	D	E	F	G	6.5	175	500	Standard
5	EF-3P010X01E-C71	10	< 0.5	D	E	F	G	----	----	500	Standard
6	EF-3P010X02E-C71	10	< 0.5	D	E	F	G	6.5	175	500	Standard
7	EF-3P015X01E-C71	15	< 1.0	D	E	F	G	----	----	500	Standard
8	EF-3P015X02E-C71	15	< 1.0	D	E	F	G	10	350	500	Standard
9	EF-3P020X01E-C71	20	< 1.0	D	E	F	G	----	----	500	Standard
10	EF-3P020X02E-C71	20	< 1.0	D	E	F	G	10	350	500	Standard
11	EF-3P025X01E-C71	25	< 1.0	D	E	F	G	----	----	500	Standard
12	EF-3P025X02E-C71	25	< 1.0	D	E	F	G	10	350	500	Standard
13	EF-3P030X01E-C71	30	< 1.0	D	E	F	G	----	----	500	Standard
14	EF-3P030X02E-C71	30	< 1.0	D	E	F	G	10	350	500	Standard
15	EF-3P040X01E-C71	40	< 1.0	D	E	F	G	----	----	500	Standard
16	EF-3P040X02E-C71	40	< 1.0	D	E	F	G	10	350	500	Standard

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- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3P010D01E-C71)
- Recommended tightening torque for touch safe – for 6 sqmm. – 10.6-13 lbf.in., and for screw terminal-M4 tightening torque 12 Kgcm max.
- 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	Bus bar (LxWxH) & connection screw terminal	Touch safe	Wire terminal(AWG)	Earthing
3	M4	12x10x2.5 & M4	6 Sq.mm	18AWG	M4
6	M4	12x10x2.5 & M4	6 Sq.mm	18AWG	M4
10	M4	12x10x2.5 & M4	6 Sq.mm	14AWG	M4
15	M4	12x10x2.5 & M4	6 Sq.mm	14AWG	M4
20	M4	12x10x2.5 & M4	6 Sq.mm	12AWG	M4
25	M4	12x10x2.5 & M4	6 Sq.mm	10AWG	M4
30	M4	12x10x2.5 & M4	6 Sq.mm	10AWG	M4
40	M4	12x10x2.5 & M4	6 Sq.mm	8 AWG	M4

Syntax

EF – 3P CCC X YY E – C71

