

Datasheet | EC74

EP-355WN Series



General Purpose AC EMI Filter

El.italia EC-EC74 [EP-355WN] serie



Image shown is for illustrative purpose only

Technical specifications

Operating voltage	250VAC(P-N)/440VAC(P-P)
Current rating	50A-80A
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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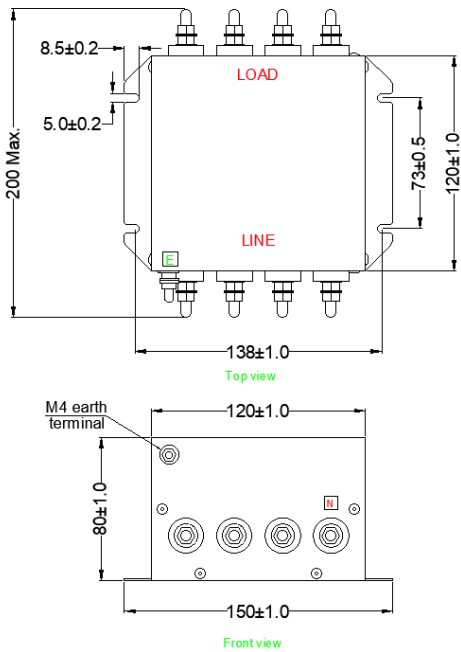
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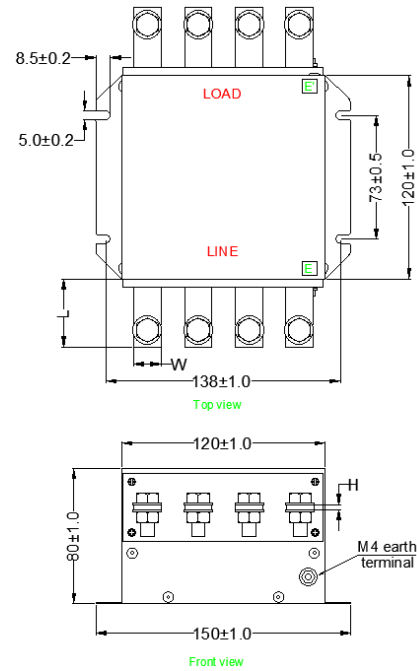
Mechanical details

| For screw terminal



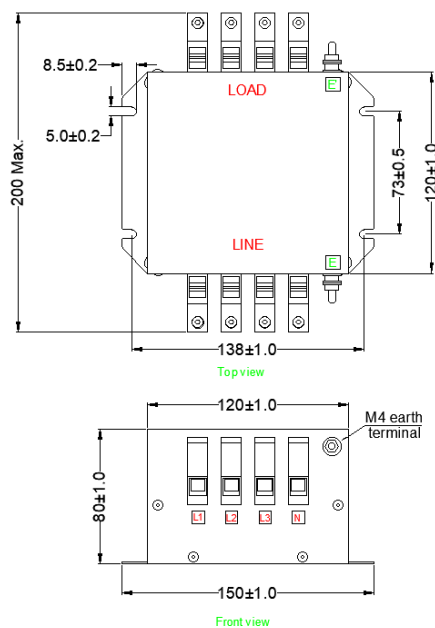
All dimensions in mm

| For bus-bar terminal



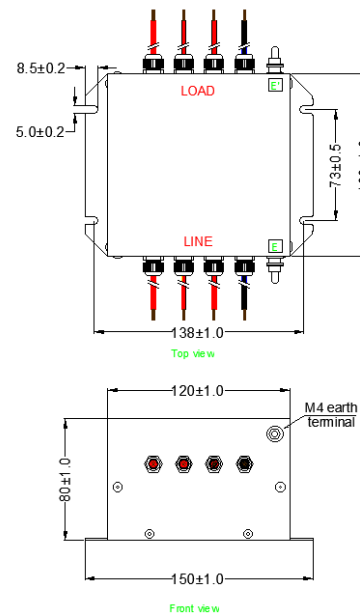
All dimensions in mm

| For touch safe terminal



All dimensions in mm

| For wire lead terminal



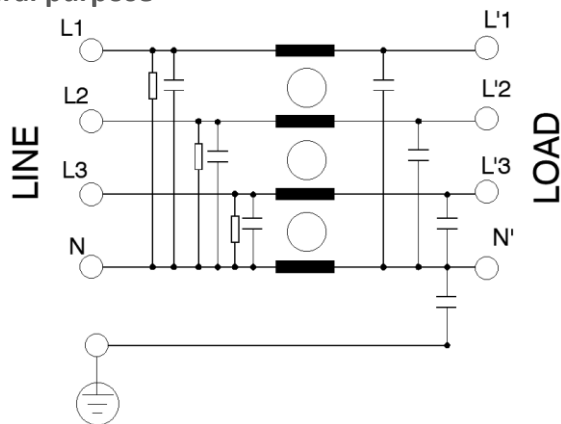
All dimensions in mm

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

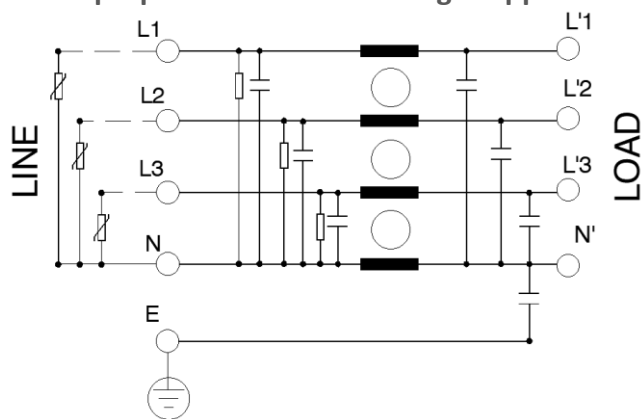
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Electrical schematic for Single Stage Filter

General purpose -



General purpose with external surge suppressor -



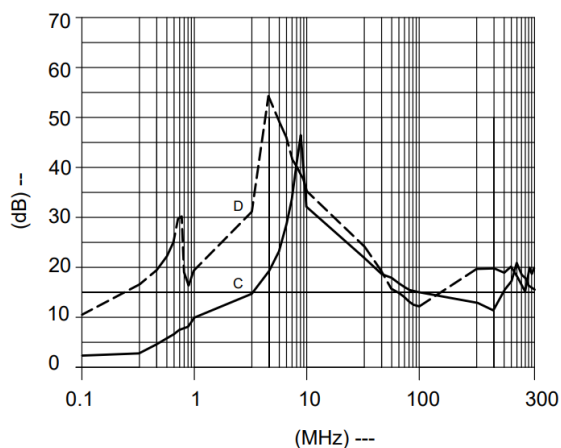
Filter attenuation Graph

C = Common mode (asymmetrical) —————

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

For general application (Single Stage)

For 50A-80A







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Filter Selection Table

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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
				Screw 	Bus bar 	Touch-safe 	Wire lead 				
1	EF-3P050X01E-C74	50	< 1.0	D	E	F	G	----	----	2.5	Standard
2	EF-3P050X12E-C74	50	< 1.0	D	E	F	G	10	350	2.5	Standard
3	EF-3P060X01E-C74	60	< 1.0	D	E	F	G	----	----	2.5	Standard
4	EF-3P060X12E-C74	60	< 1.0	D	E	F	G	10	350	2.5	Standard
5	EF-3P080X01E-C74	80	< 1.0	D	E	F	G	----	----	2.5	Standard
6	EF-3P080X12E-C74	80	< 1.0	D	E	F	G	10	350	2.5	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3P050D01E-C74)
- Recommended tightening torque for touch safe – For 16 sqmm- 22-25 lbf.in and for screw terminal tightening torque-for M6 is 20-25Kgcm, for M8 is 25-30 Kgcm
- 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
50	M6	40x16x3 & M8	16 Sq.mm	8AWG	M4
60	M6	40x16x3 & M8	16 Sq.mm	6AWG	M4
80	M8	40x16x3 & M8	16 Sq.mm	6AWG	M4

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Syntax

EF - 3P CCC X YY E - C74

