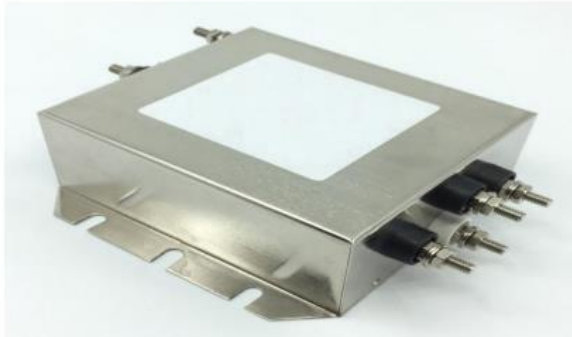


High attenuation AC EMI Filter

El.italia EC-EC72 serie



Technical specifications



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

*Image shown is for illustrative purpose only

Features and benefits

- | Filters available in double stage
- | All filters provide high attenuation performance.
- | Two stage filters designed for noisy application requiring excellent filter performance.
- | All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- | High reliable
- | Easy and fast chassis mountable filter with compact size.
- | CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- | With surge suppressor filters also available.
- | Various terminal options are available

Attenuation Type

Double Stage

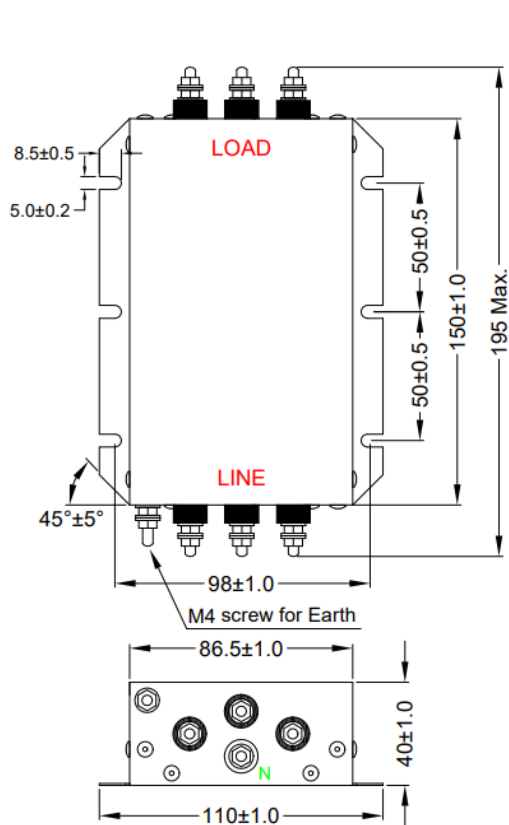
High

Applications

- | Consumer product
- | Defence application
- | Medical equipment
- | Industrial application
- | Automotive application
- | Weighting Machines
- | Printing Machinery
- | Electrical equipment application
- | Office automation equipment

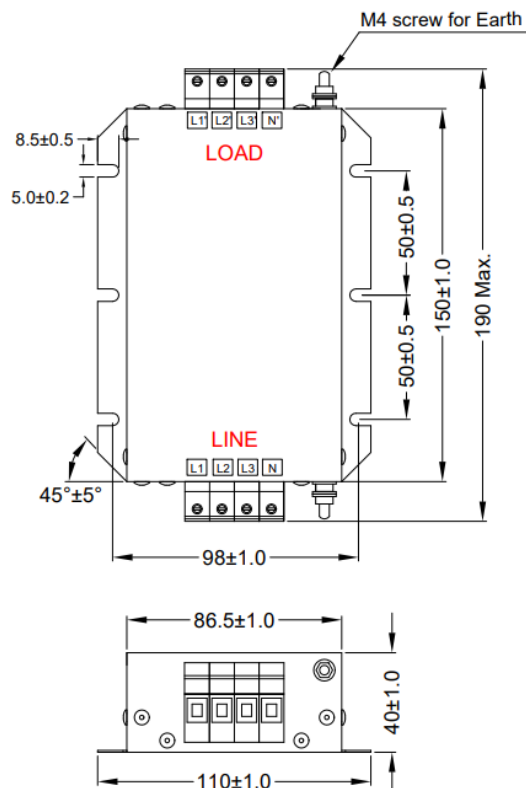
Mechanical details

For screw terminal

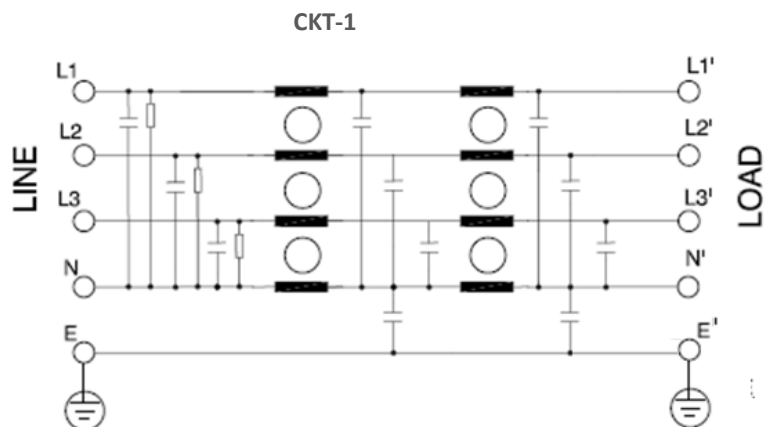


All dimensions in mm
General tolerance = ± 2 mm

For touch safe terminal



Electrical schematic for Double Stage Filter



Filter attenuation Graph

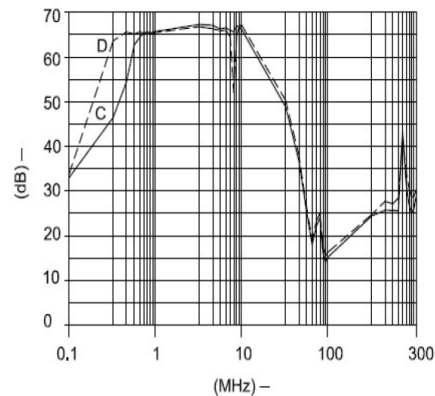
C = Common mode (asymmetrical) —————

El.italia EC-EC72 serie

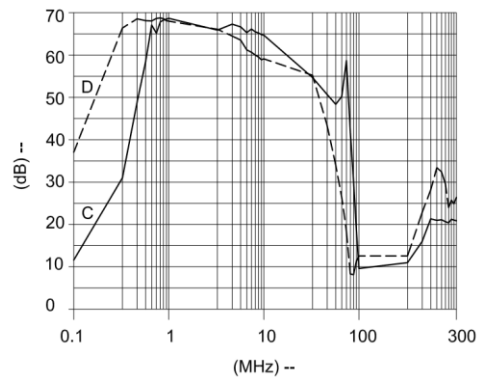
D = Differential mode (symmetrical) - - - - -

For Double Stage (CKT 1)

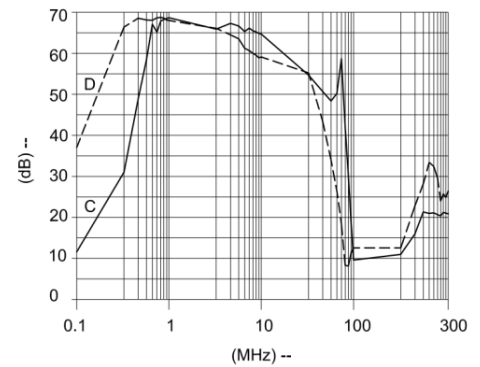
For 15A



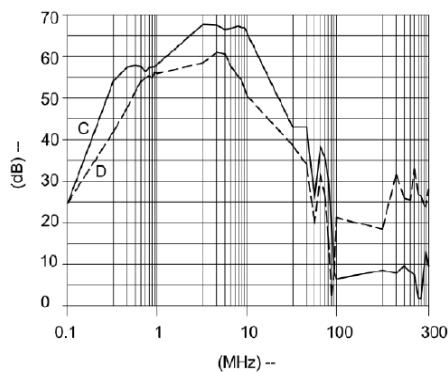
For 20A





For 25A



For 40A



Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @440VAC	Terminals (X)		Approx. Weight (Kg)	Attenuation
				Screw 	Touch safe 		
1	EF-3P015X20G-C72	15	< 3.5	D	F	1.2	High
2	EF-3P020X20G-C72	20	< 3.5	D	F	1.2	High
3	EF-3P025X20G-C72	25	< 3.5	D	F	1.2	High
4	EF-3P040X20G-C72	40	< 3.5	D	F	1.2	High

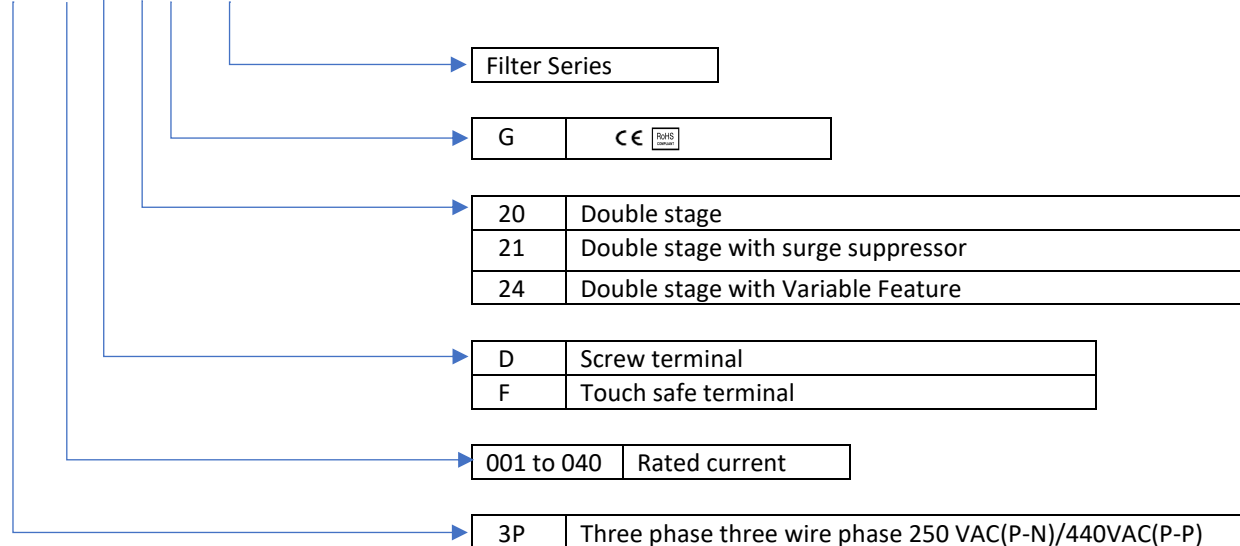
El.italia EC-EC72 serie

Connection Type

Current Rating (A)	Screw terminal details		Touch safe terminal details		Earthing screw terminal
	Screw	Recommended tightening torque	Touch safe	Recommended tightening torque	
15	M4	12kgcm max	6 Sq.mm	10.6-13 lbf.in	M4
20	M4	12kgcm max	6 Sq.mm	10.6-13 lbf.in	M4
25	M4	12kgcm max	6 Sq.mm	10.6-13 lbf.in	M4
30	M4	12kgcm max	6 Sq.mm	10.6-13 lbf.in	M4
40	M4	12kgcm max	6 Sq.mm	10.6-13 lbf.in	M4

Syntax

EF - 3P CCC X YY G - C72



- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3P020D20G-C72)
- 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.