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General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Conformance



Technical Specifications

Operating voltage	120/250 VAC
Current rating	1A - 40A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> N 1414VDC(applicable excluding surge suppressor filter)
Insulation resistance	\geq 300 MΩ @ 500VDC (PN \rightarrow E)
Operating temperature	40°c /-25°c +85°C

Features and benefits

- Filters available in single stage and 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 drill rail mounting filter with compact size.
- CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- Filters available in medical version without capacitor to earth.
- General purpose filters with low leakage current for safety critical application.
- With surge suppressor filters also available.

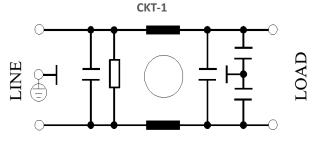
Application

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

Attenuation type

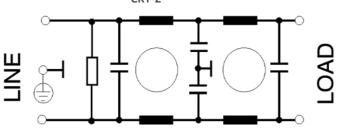
Single Stage	Standard
Double Stage	High

Electrical schematic for Single Stage Filter General purpose –



Electrical schematic for Double Stage Filter General purpose –

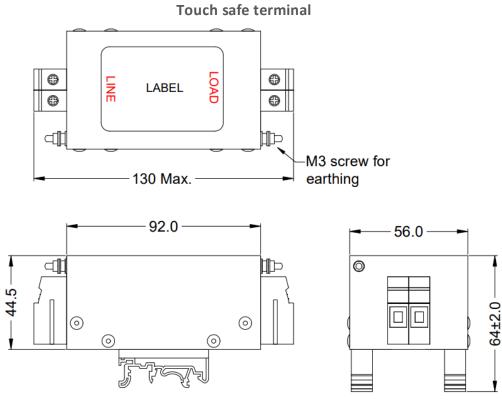
СКТ-2



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Mechanical details



All dimensions in mm

Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Terminals (X) Touch safe	Approx. Weight (gm)	Attenuation
1	EF-1B010F01G-E07	10	< 0.5	F	250	Standard
2	EF-1B020F01G-E07	20	< 0.5	F	250	Standard
3	EF-1B030F01G-E07	30	< 0.5	F	250	Standard
4	EF-1B040F01G-E07	40	< 0.5	F	250	Standard
5	EF-1B010F20G-E07	10	< 0.5	F	250	High
6	EF-1B020F20G-E07	20	< 0.5	F	250	High
7	EF-1B030F20G-E07	30	< 0.5	F	250	High
8	EF-1B040F20G-E07	40	< 0.5	F	250	High

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B010F21G-E07).

- 6 sqmm touch safe terminal tightening torque 10.6-13 lbf.in

- 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.

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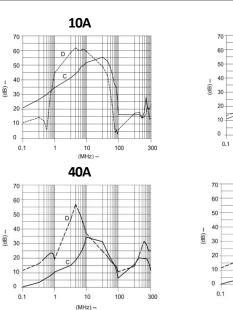
Connection Type

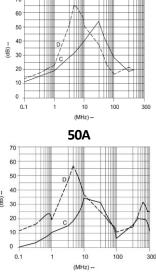
Current Rating (A)	Touch safe terminal	Earthing
1A-40A	6 sqmm	M3 screw terminal

Filter attenuation graph

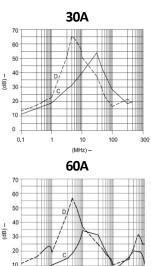
C = Common mode (asymmetrical) ——— For general application (Single Stage) (CKT 1)

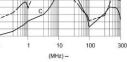
D = Differential mode (symmetrical) -----





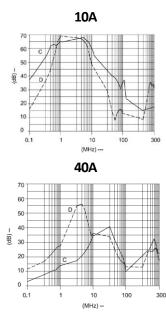
20A

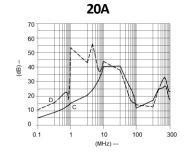


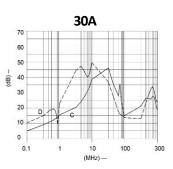


0.1

For general application (Double Stage) (CKT 2)







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