# Datasheet | EA04 3P4W

## General Purpose AC EMI Filter

*Image shown is for illustrative purpose only

## Approvals /Conformance

## Technical Specifications

| | |
|---|---|
| Operating voltage | 250/440 VAC |
| Current rating | 1A - 10A |
| Frequency | 50/60Hz |
| Voltage drop | 1 Volt max. |
| High potential test voltage | P -> E 1500VAC<br>P -> N 2121VDC (applicable excluding surge suppressor filter) |
| Insulation resistance | ≥ 300 MΩ @ 500VDC (PN→E) |
| Operating temperature | 40°c /-25°c +85°c |

## Features and benefits

- All filters provide high attenuation performance.
- All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- Compact PCB-mountable design.
- High reliable.
- Plastic housing with good aesthetic.
- Single stage.
- Input and output connection through soldering pins.
- Filters available in medical version without capacitor to earth.
- With surge suppressor filters also available.
- Cost effective solution.

## Application

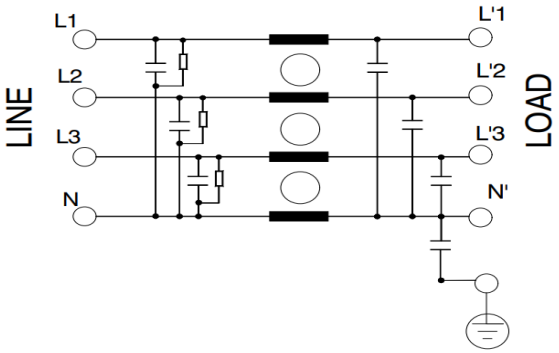
- Electrical and electronic equipment
- SMPS
- Test & measurement equipment
- Small to medium-sized machines and household equipment
- Office automation equipment

## Attenuation type

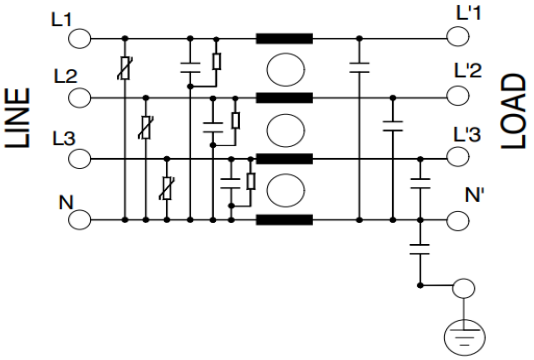
Single Stage **Standard**

## Electrical schematic for filter:

### General purpose –



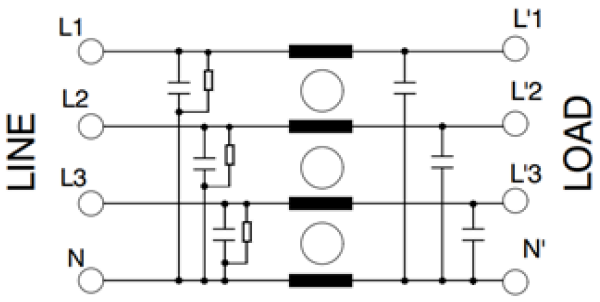

### General purpose with Surge Suppressor –



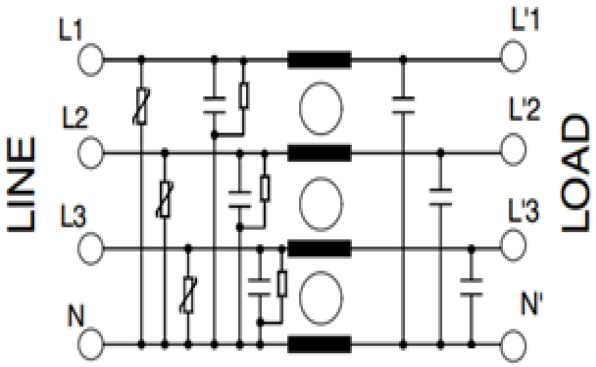
# Datasheet | EA04 3P4W

## Electrical schematic for filter:

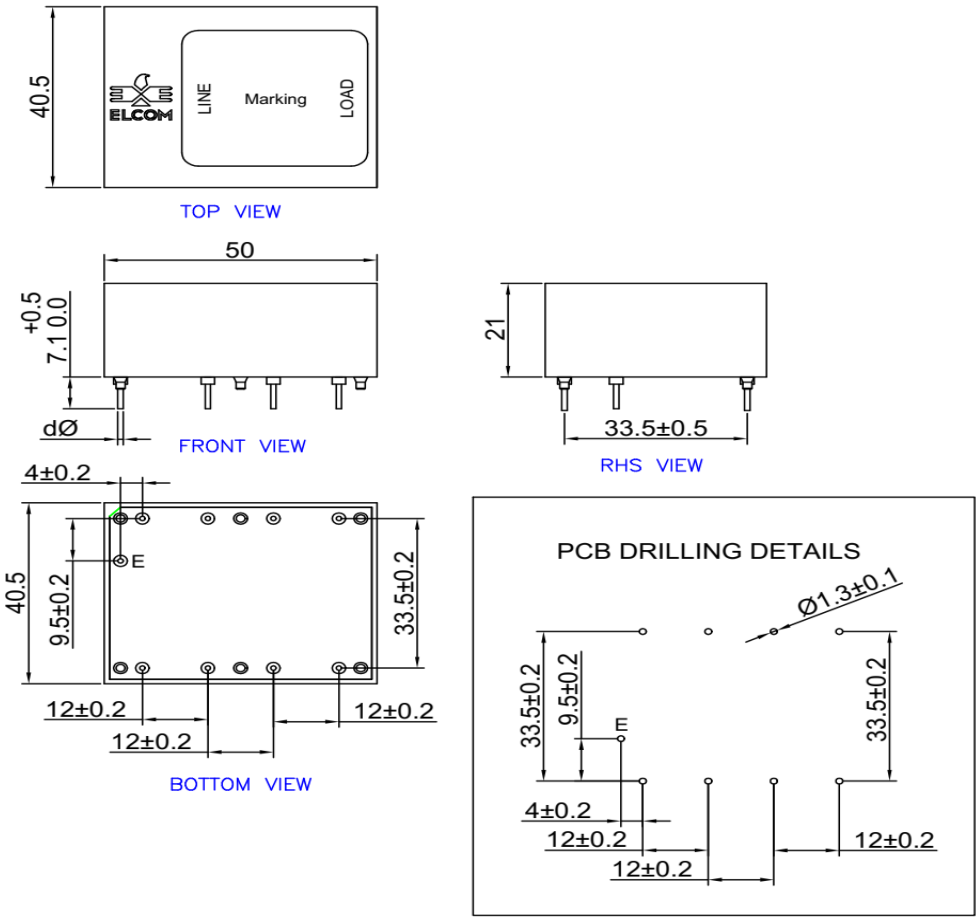
**Medical equipment application -**




**Medical equipment application with Surge Suppressor-**




## Mechanical Details




All dimensions in mm.
General tolerance=±1mm
Note: For medical application filter, earthing terminal is not provide

# Datasheet | EA04 3P4W

## Filter Selection Table

| Sr. No. | Elcom part codes (ordering code) | Rated Current rating (A) @40°c | Leakage current (mA) @250VAC | Pin-type terminal  | Max. Peak current (8/20 µ sec 1 time) (KA) | Energy surge rating (10/1000 µ sec) (Joules) | Approx. weight (gm) | Attenuation |
|---|---|---|---|---|---|---|---|---|
| 1 | EF-3P001A01E-A04 | 1 | < 0.5 | A | ---- | ---- | 100 | Standard |
| 2 | EF-3P001A02E-A04 | 1 | < 0.5 | A | 6.5 | 175 | 100 | Standard |
| 3 | EF-3P001A03E-A04 | 1 | < 0.003 | A | ---- | ---- | 100 | Standard |
| 4 | EF-3P001A04E-A04 | 1 | < 0.003 | A | 6.5 | 175 | 100 | Standard |
| 5 | EF-3P002A01E-A04 | 2 | < 0.5 | A | ---- | ---- | 100 | Standard |
| 6 | EF-3P002A02E-A04 | 2 | < 0.5 | A | 6.5 | 175 | 100 | Standard |
| 7 | EF-3P002A03E-A04 | 2 | < 0.003 | A | ---- | ---- | 100 | Standard |
| 8 | EF-3P002A04E-A04 | 2 | < 0.003 | A | 6.5 | 175 | 100 | Standard |
| 9 | EF-3P003A01E-A04 | 3 | < 0.5 | A | ---- | ---- | 100 | Standard |
| 10 | EF-3P003A02E-A04 | 3 | < 0.5 | A | 6.5 | 175 | 100 | Standard |
| 11 | EF-3P003A03E-A04 | 3 | < 0.003 | A | ---- | ---- | 100 | Standard |
| 12 | EF-3P003A04E-A04 | 3 | < 0.003 | A | 6.5 | 175 | 100 | Standard |
| 13 | EF-3P006A01E-A04 | 6 | < 0.5 | A | ---- | ---- | 100 | Standard |
| 14 | EF-3P006A02E-A04 | 6 | < 0.5 | A | 6.5 | 175 | 100 | Standard |
| 15 | EF-3P006A03E-A04 | 6 | < 0.003 | A | ---- | ---- | 100 | Standard |
| 16 | EF-3P006A04E-A04 | 6 | < 0.003 | A | 6.5 | 175 | 100 | Standard |
| 17 | EF-3P010A01E-A04 | 10 | < 0.5 | A | ---- | ---- | 100 | Standard |
| 18 | EF-3P010A02E-A04 | 10 | < 0.5 | A | 6.5 | 175 | 100 | Standard |
| 19 | EF-3P010A03E-A04 | 10 | < 0.003 | A | ---- | ---- | 100 | Standard |
| 20 | EF-3P010A04E-A04 | 10 | < 0.003 | A | 6.5 | 175 | 100 | Standard |

- Customize products provided on request.
- 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.

## Connection Method

| Current Rating (A) | Pin type terminal | Earthing |
|---|---|---|
| 1,2,3,6,10 Amp | Solder pins | Solder pins |

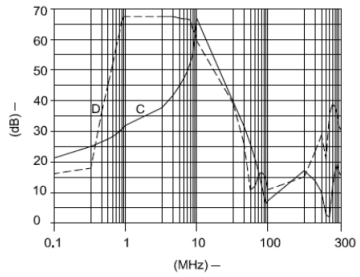
# Datasheet | EA04 3P4W

## Filter attenuation graph

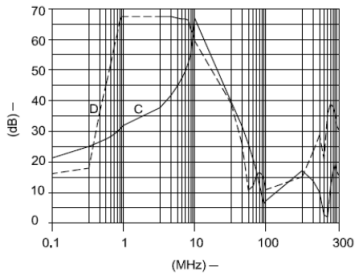
C = Common mode (asymmetrical) ————— D = Differential mode (symmetrical) - - - - - - - - -

For general purpose

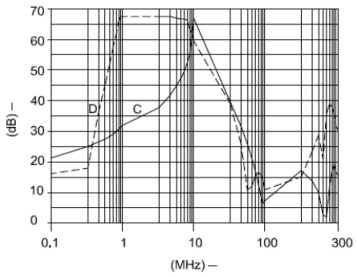
**1 Amp**



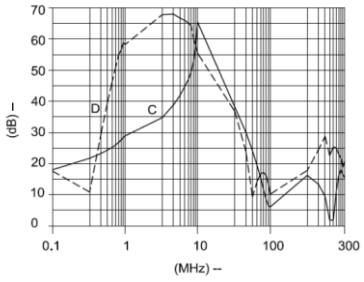

**2 Amp**




**3 Amp**




**6 Amp**




**10 Amp**