

# Datasheet | EC35

## EP-355WON Series



### General Purpose AC EMI Filter



\*Image shown is for illustrative purpose only

### Approvals /Conformance



### Technical Specifications

Operating voltage	440VAC (P-P)
Current rating	3A - 40A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> P 2121VDC (applicable for general purpose filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (P→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
- | Single stage.
- | High reliable
- | Chassis mountable filter in fabricated metal can.
- | CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- | General purpose filter with low leakage current for safety critical application.
- | With surge suppressor filters also available.
- | Various terminal options are available.

### Application

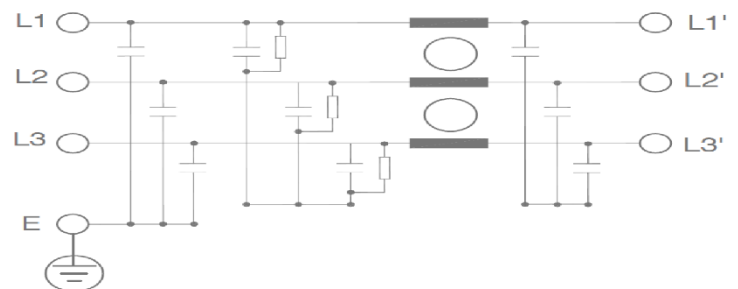
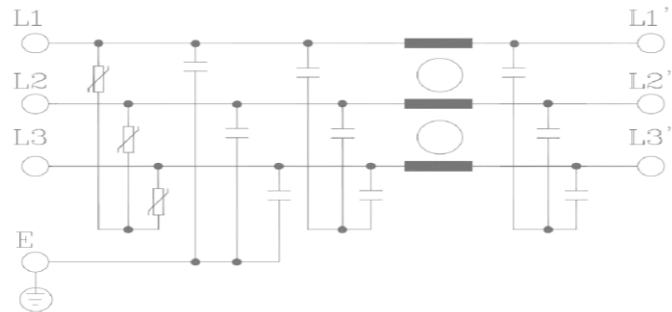
- | Electrical and electronic equipment
- | Test & measurement equipment
- | 3 Phase motor drive
- | Inverters and converters
- | Industrial automation application UPS, SMPS
- | Laser cutting tools
- | Packaging and drilling machine
- | Printing machine

### Attenuation type

Single Stage

**Standard**

### Electrical schematic for filter:



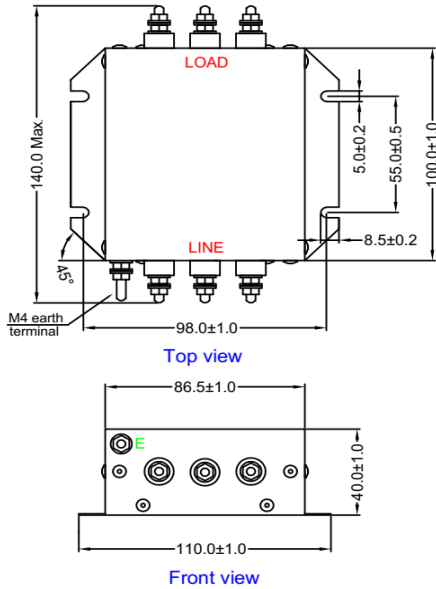
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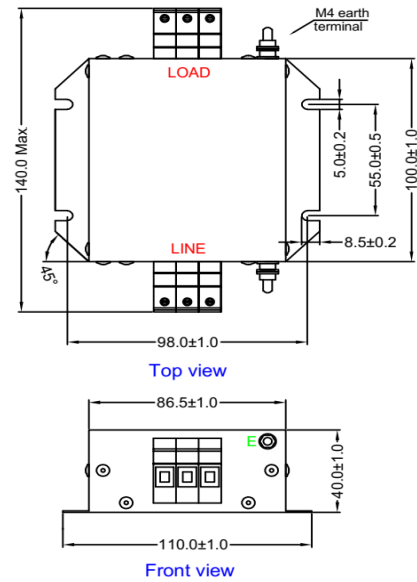
### Mechanical Drawing



#### Screw terminal

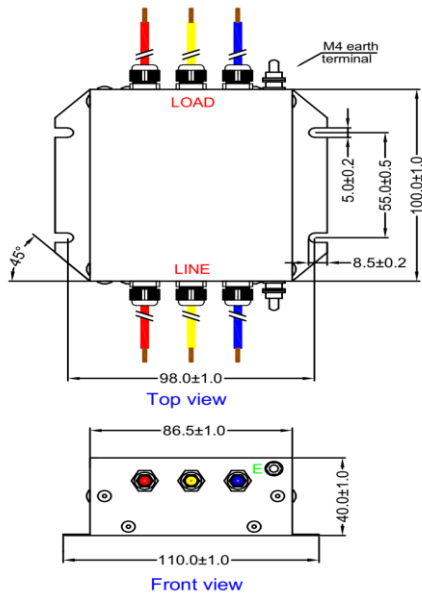


#### Touch safe terminal

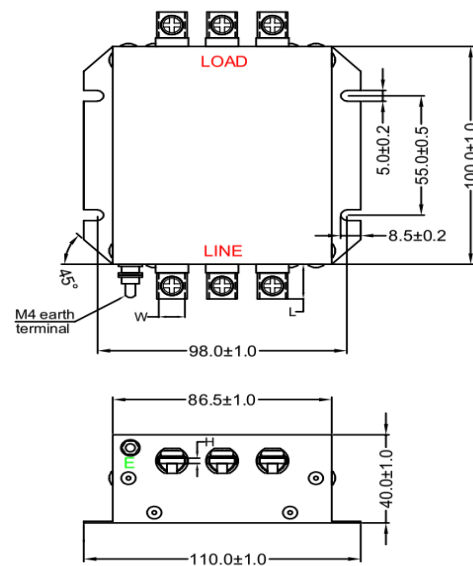


-Over 40A current rating touch will be unstackable

#### Wire Terminal



#### Busbar Terminal







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### Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Current rating (A)	Leakage current (mA) @440V AC	Terminals (X)				Max. Peak current (8/20 $\mu$ sec 1 time) (KA)	Energy surge rating (10/1000 $\mu$ sec) (J)	Weight (gm)	Attenuation
				Screw 	Busbar 	Touch - safe 	Wire 				
1	EF-3A003X01E-C35	3	< 1.8	D	E	F	G	----	----	500	Standard
2	EF-3A003X02E-C35	3	< 1.8	D	E	F	G	6.5	175	500	Standard
3	EF-3A006X01E-C35	6	< 1.8	D	E	F	G	----	----	500	Standard
4	EF-3A006X02E-C35	6	< 1.8	D	E	F	G	6.5	175	500	Standard
5	EF-3A010X01E-C35	10	< 1.8	D	E	F	G	----	----	500	Standard
6	EF-3A010X02E-C35	10	< 1.8	D	E	F	G	6.5	175	500	Standard
7	EF-3A015X01E-C35	15	< 1.8	D	E	F	G	----	----	500	Standard
8	EF-3A015X02E-C35	15	< 1.8	D	E	F	G	10	350	500	Standard
9	EF-3A020X01E-C35	20	< 1.8	D	E	F	G	----	----	500	Standard
10	EF-3A020X02E-C35	20	< 1.8	D	E	F	G	10	350	500	Standard
11	EF-3A025X01E-C35	25	< 1.8	D	E	F	G	----	----	500	Standard
12	EF-3A025X02E-C35	25	< 1.8	D	E	F	G	10	350	500	Standard
13	EF-3A030X01E-C35	30	< 1.8	D	E	F	G	----	----	500	Standard
14	EF-3A030X02E-C35	30	< 1.8	D	E	F	G	10	350	500	Standard
15	EF-3A040X01E-C35	40	< 1.8	D	E	F	G	----	----	500	Standard
16	EF-3A040X02E-C35	40	< 1.8	D		F	G	10	350	500	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A010D01E-C35)
- 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 Method

Current Rating (A)	Screw terminal details		Bus bar terminal details		Touch safe terminal details		Wire terminal details (AWG)	Earthing screw terminal details
	Screw	Recommended tightening torque	Bus bar (LxWxH)	connection screw terminal	Touch safe	Recommended tightening torque		
3	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	18	M4
6	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	18	M4
10	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	14	M4
15	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	14	M4
20	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	12	M4
25	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	10	M4
30	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	10	M4
40	M4	12kgcm max	12x10x2.5	M4	6 Sq.mm	10.6-13 lbf.in	8	M4

### Filter attenuation graph

C = Common mode (asymmetrical) —————

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

