



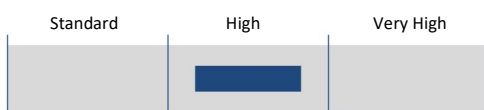
### High Performance Single Phase EMI Powerline Filter

- High differential & common mode attenuation performance and superior noise suppression. Two-Stage
- Rated currents from 1 to 36 Amps
- Optional medical versions available (Type B)
- Optional safety versions available (Type A)

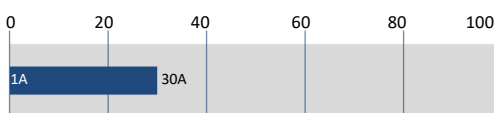


#### Performance Indicators

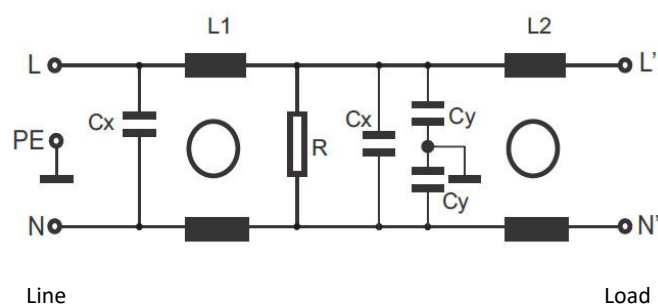
##### Attenuation Performance



##### Rated Current (Amps)



#### Electrical Diagram



#### Features and Benefits

- BL2070 filters are designed for easy and fast chassis mounting
- BL2070 filters are also available as B versions without Y-capacitors for medical applications as well as A version with low capacitance for safety critical applications with necessity for low leakage currents
- All filters provide a general purpose conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behaviour
- BL2070 filters can be used to cover a broad range of usage and they offer a good size/amperage ratio
- Various terminal options allow you to select the desired connection style

#### Technical Specification

Operating voltage	250 VAC, 50/60 Hz
Operating frequency	dc to 400 Hz
Rated currents	1 to 36 A @ 40 °C max
High potential test voltage	L → PE 3000 VDC for 2 sec (Standard Types) L → N 1100 VDC for 2 sec L → PE 3500 VDC for 2 sec (B types)
Temperature range (operation and storage)	-25 °C to +100 °C (25/100/21)
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939

#### Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Office automation equipment
- Datacom equipment

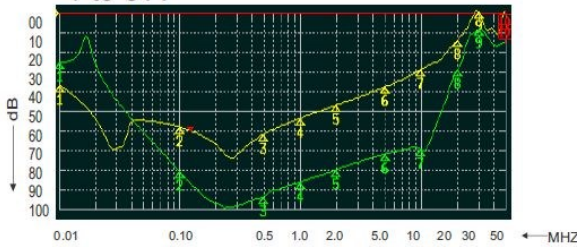
Filter Selection Table

Filter Model (where X = connection)	Rated Current @40 °C (Amps)	Leakage Current @230Vac/50Hz (mA)	Inductance L (mH)	Capacitance		Resistance R (kΩ)	Input/Output Connections		
				Cx (μF)	Cy (nF)				
BL2070-01-X	1	0.73	44	0.66	9.4	1000	F	W	
BL2070-03-X	3	0.73	19.6	0.94	9.4	470	F	W	
BL2070-06-X	6	0.73	15.6	2	9.4	220	F	W	
BL2070-10-X	10	0.73	9	2	9.4	220	F	W	
BL2070-12-X	12	0.73	6.5	2	9.4	220	F	W	
BL2070-16-X	16	0.73	3.6	2	9.4	220	F	W	S
BL2070-25-X	25	0.73	4	4.4	9.4	220			S
BL2070-36-X	36	0.86	2.46	4.4	9.4	220			S
<b>Safety Version (A)</b>									
BL2070A-01-X	1	0.073	44	0.66	0.94	1000	F	W	
BL2070A-03-X	3	0.073	19.6	0.94	0.94	470	F	W	
BL2070A-06-X	6	0.073	15.6	2	0.94	220	F	W	
BL2070A-10-X	10	0.073	9	2	0.94	220	F	W	
BL2070A-12-X	12	0.073	6.5	2	0.94	220	F	W	
BL2070A-16-X	16	0.073	3.6	2	0.94	220	F	W	S
BL2070A-25-X	25	0.073	4	4.4	0.94	220			S
BL2070A-36-X	36	0.073	2.46	4.4	0.94	220			S
<b>Medical Version (B)</b>									
BL2070B-01-X	1	0.002	44	0.66		1000	F	W	
BL2070B-03-X	3	0.002	19.6	0.94		470	F	W	
BL2070B-06-X	6	0.002	15.6	2		220	F	W	
BL2070B-10-X	10	0.002	9	2		220	F	W	
BL2070B-12-X	12	0.002	6.5	2		220	F	W	
BL2070B-16-X	16	0.002	3.6	2		220	F	W	S
BL2070B-25-X	25	0.002	4	4.4		220			S
BL2070B-36-X	36	0.002	4.4	4.4		220			S

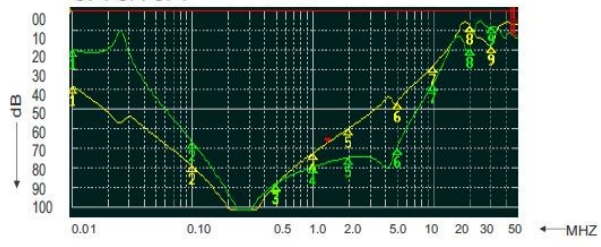
Typical Filter Attenuation

Insertion Loss: Common mode - —  
 Differential mode - —

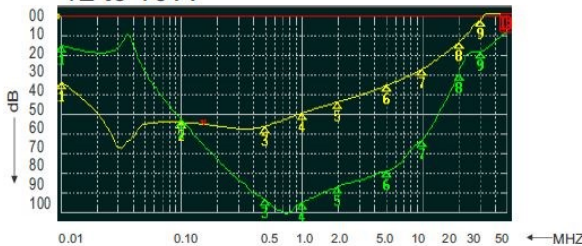
1 to 3 A



6A & 10A



12 to 16 A

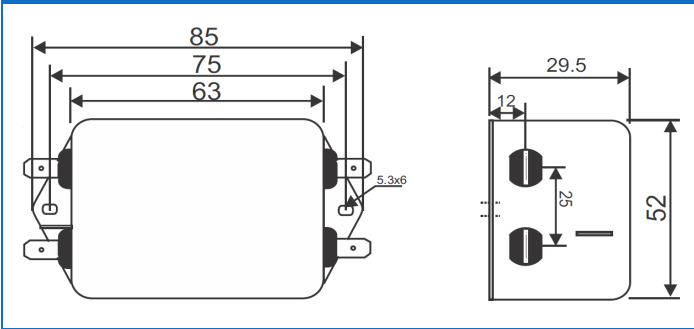


25A to 36 A

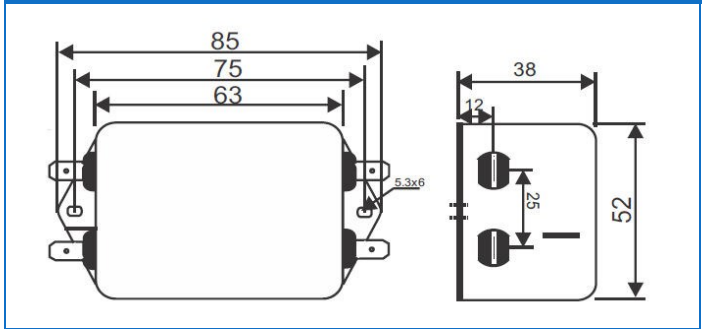


Mechanical Dimensions (mm)

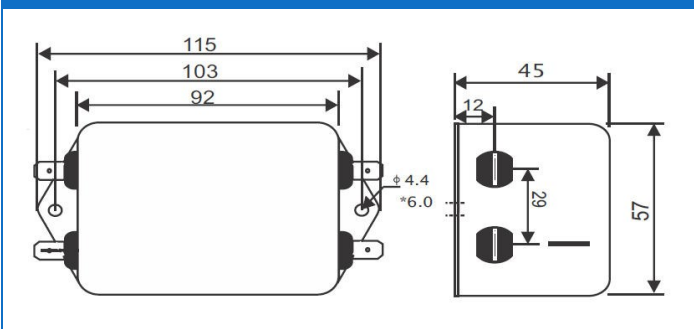
Connection Type F, 1A



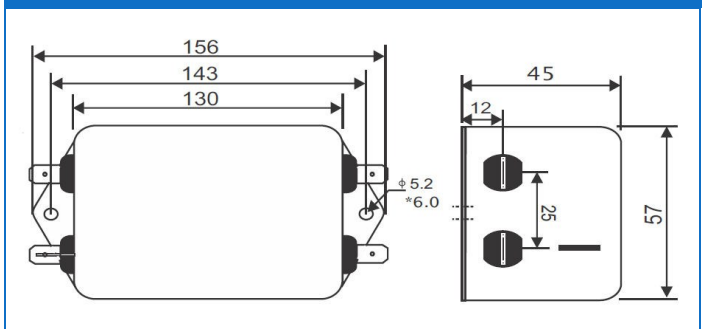
Connection Type F, 3A



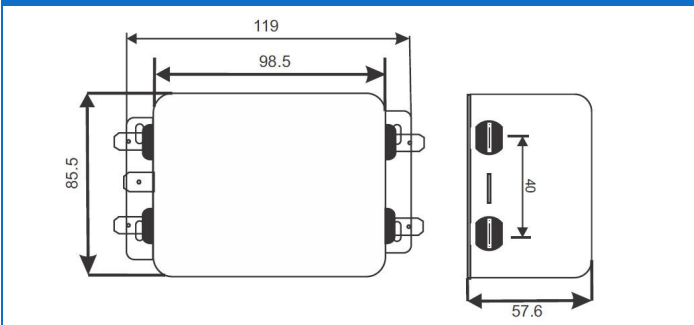
Connection Type F, 6A



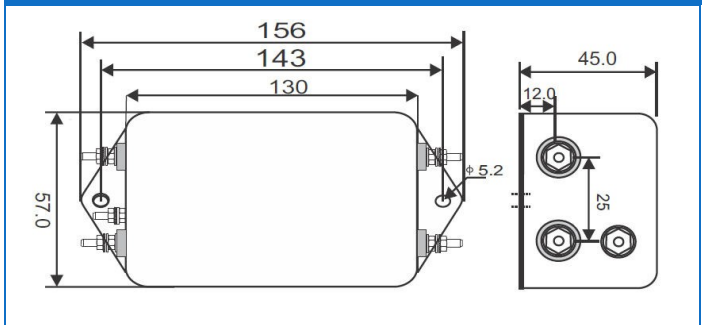
Connection Type F, 10A & 12A



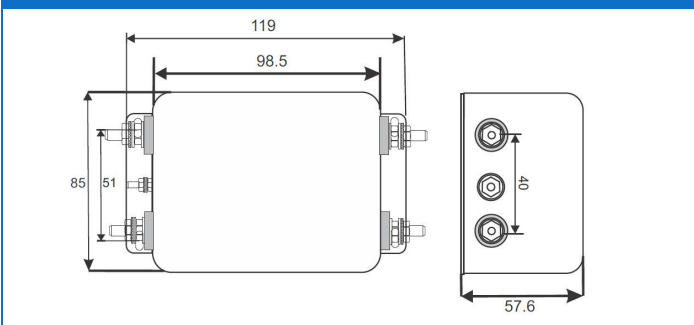
Connection Type F, 16A



Connection Type S, 25A



Connection Type S, 36A



**Note:** All dimensions in mm

Connection type F = Fast on Terminals (6.3 x 0.8)

Connection type S = Screw (M4 & M5)