



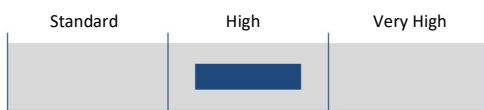
High Performance Single Phase EMI Powerline Filter

- High differential & common mode attenuation performance and superior noise suppression. Two-Stage
- Rated currents from 1 to 16 Amps
- Optional medical versions available (Type B)
- Optional safety versions available (Type A)

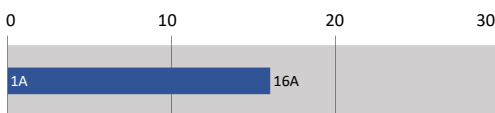


Performance Indicators

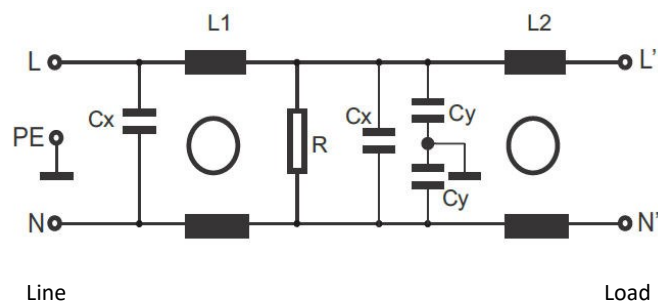
Attenuation Performance



Rated Current (Amps)



Electrical Diagram



Features and Benefits

- BL2080 filters are designed for easy and fast chassis mounting
- BL2080 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
- BL2080 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 16 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
- Medical equipment
- Office automation equipment
- Datacom equipment
- Machinery, Drives & Controls
- Elevators & Cranes

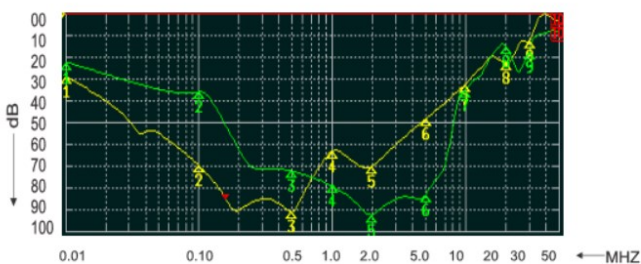
Filter Selection Table

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)				
BL2080-01-X	1	0.73	22.4	0.66	9.4	1000	F	W	
BL2080-03-X	3	0.73	9.96	0.94	9.4	470	F	W	
BL2080-06-X	6	0.73	7.91	2	9.4	220	F	W	
BL2080-10-X	10	0.73	4.56	2	9.4	220	F	W	
BL2080-12-X	12	0.73	3.3	2	9.4	220	F	W	
BL2080-16-X	16	0.73	2.84	2	9.4	220	F	W	S
Safety Version (A)									
BL2080A-01-X	1	0.073	22.4	0.66	0.94	1000	F	W	
BL2080A-03-X	3	0.073	9.96	0.94	0.94	470	F	W	
BL2080A-06-X	6	0.073	7.91	2	0.94	220	F	W	
BL2080A-10-X	10	0.073	4.56	2	0.94	220	F	W	
BL2080A-12-X	12	0.073	3.3	2	0.94	220	F	W	
BL2080A-16-X	16	0.073	2.84	2	0.94	220	F	W	S
Medical Version (B)									
BL2080B-01-X	1	0.002	22.4	0.66		1000	F	W	
BL2080B-03-X	3	0.002	9.96	0.94		470	F	W	
BL2080B-06-X	6	0.002	7.91	2		220	F	W	
BL2080B-10-X	10	0.002	4.56	2		220	F	W	
BL2080B-12-X	12	0.002	3.3	2		220	F	W	
BL2080B-16-X	16	0.002	2.84	2		220	F	W	S

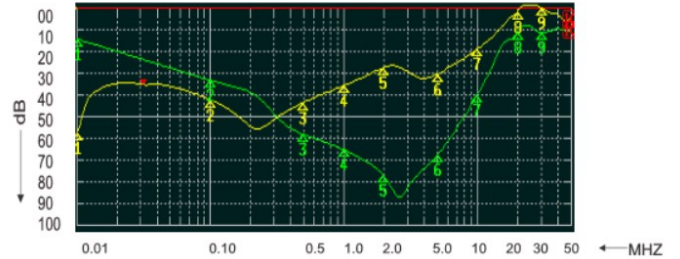
Typical Filter Attenuation

Insertion Loss: Common mode - —
 Differential mode - —

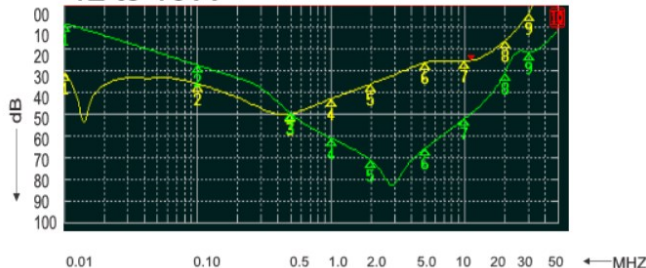
1 to 3 A



6A & 10A

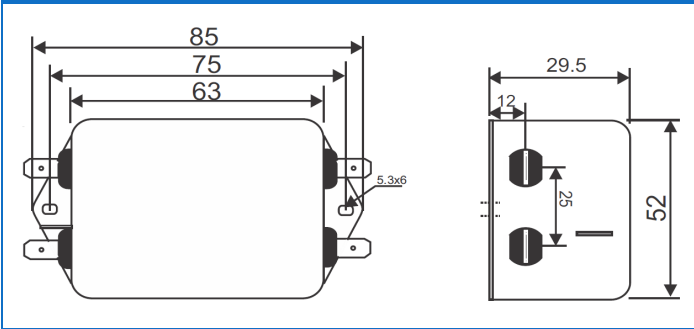


12 to 16 A

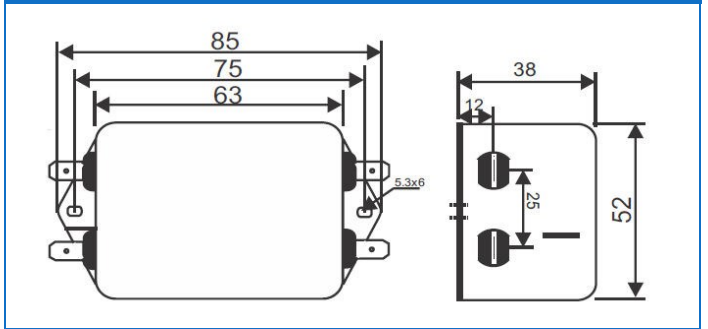


Mechanical Dimensions (mm)

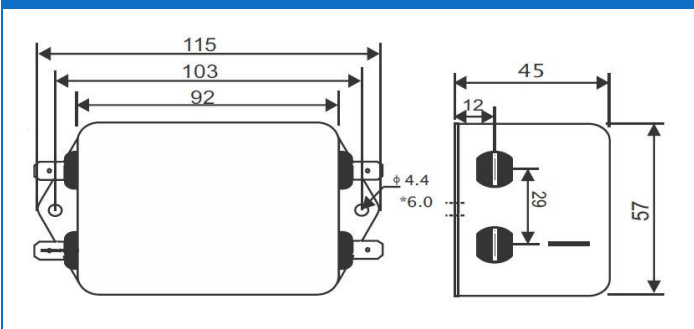
Connection Type F, 1A



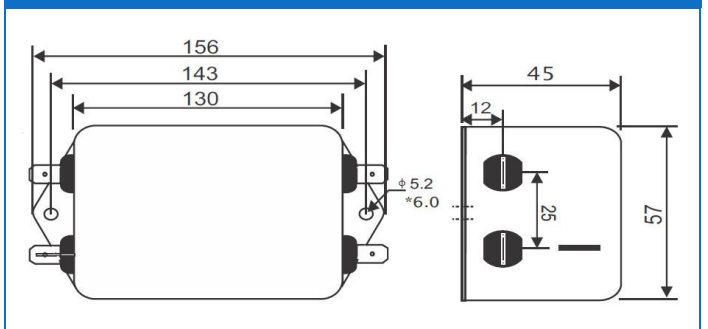
Connection Type F, 3A



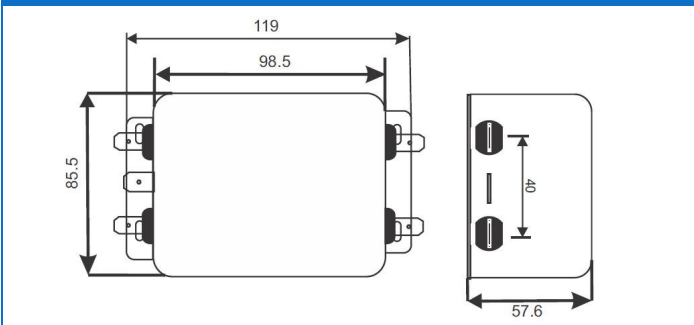
Connection Type F, 6A



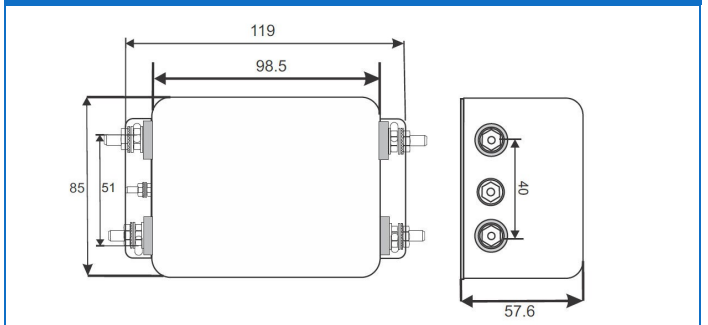
Connection Type F, 10A & 12A



Connection Type F, 16A



Connection Type S, 16A



Note: All dimensions in mm

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

Connection type S = Screw (M4)