

General Performance AC/DC EMI FILTER

Feature and Benefits

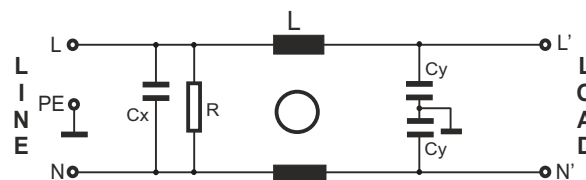
- BL2010 Single-stage filters are designed for easy and fast chassis mounting.
- The BL2010 filters are also available as B versions with no Y-capacitors for medical applications as well as A versions with low capacitance for safety critical applications with a requirement for low leakage currents.
- The BL 2010 Filter can be use to cover broad range of uses and they can offer a good size/amperages ratio
- BL 2010 filters are also available as dual stage filters (BL 2060 & BL2070 series).
- Various terminal options allow you to select the desired connection style



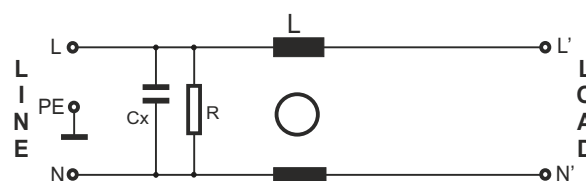
Technical specifications

Maximum continuous operating voltage	250VAC, 50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	1 to 30A @40°C
High Potential Test voltage	L-GND 2550 VDC for 2 sec L-GND 3500 VDC for 2 sec (B types) L - N 1100 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Certified to	UL 1283, EC/EN60939 (Applies to AC and DC Applications)
Flammability Corresponding to	UL 94V-2 better

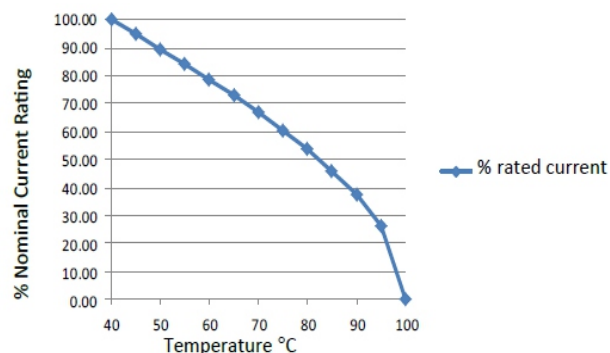
ELECTRICAL SCHEMATIC



Type B (Medical Version)






Temperature Derating Curve for EMC Filters Rated at 40°C Ambient and 100°C Maximum



Typical Application

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment

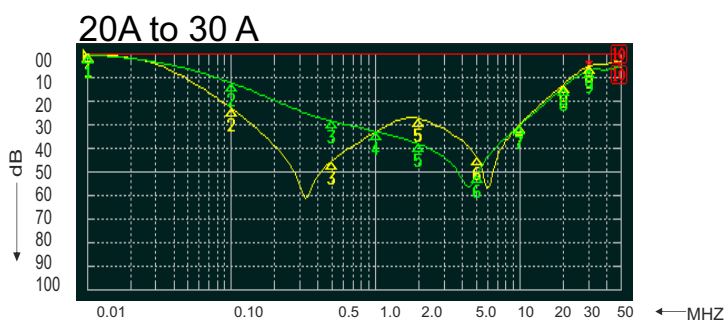
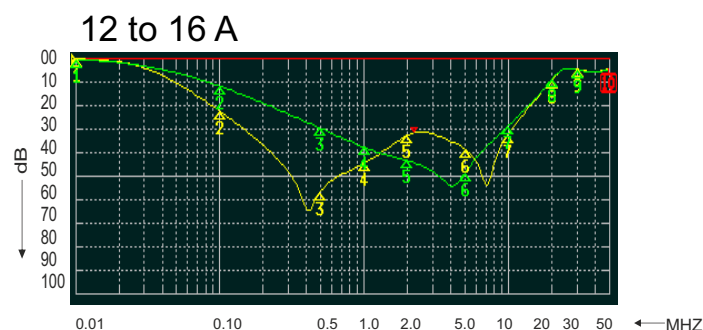
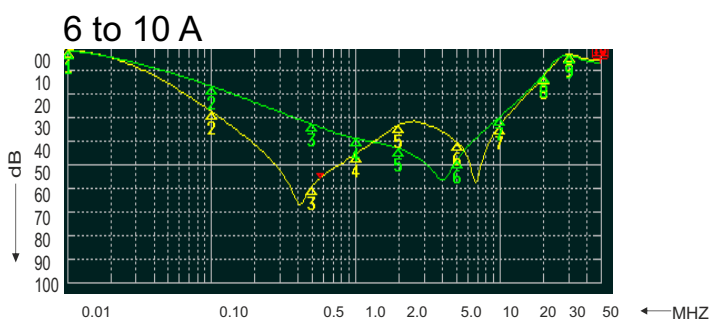
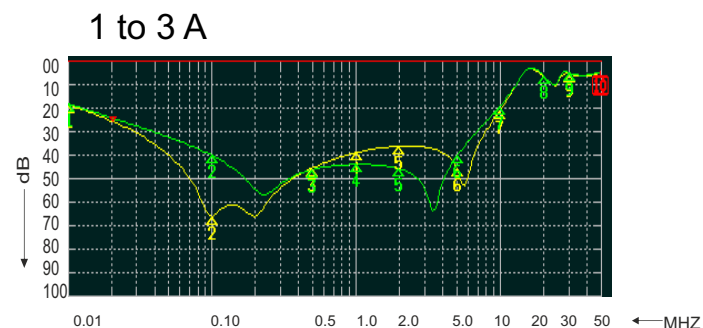
FILTER SELECTION TABLE

Filters	Rated current @40°C (25°C) A	Leakage current @250V/50 Hz mA	Inductance (L-L) ΣL mH	Capacitance (L-N) ΣCx μF	Capacitance (L-G) ΣCy nF	Resistance (L-N) ΣR KΩ	Connction type			Weight gram (g)
										
BL2010-1-X	1(1.15)	0.74	12	0.1	9.4	1000	F	W		60
BL2010-3-X	3(3.45)	0.74	2.5	0.1	9.4	1000	F	W		60
BL2010-6-X	6(6.90)	0.74	1.0	0.1	9.4	1000	F	W		60
BL2010-10-X	10(11.5)	0.74	0.8	0.1	9.4	1000	F	W		85
BL2010-12-X	12(13.8)	0.74	0.7	0.1	9.4	1000	F	W		85
BL2010-13-X	13(15.0)	0.74	0.7	0.1	9.4	1000	F	W		60
BL2010-16-X	16(18.4)	0.74	0.6	0.1	9.4	1000	F	W		140
BL2010-20-X	20(23.0)	0.74	0.7	0.1	9.4	1000	F	W	S	210
BL2010-30-S	30(34.5)	0.87	0.7	0.47	20	1000			S	450
Low Leakage Version										
BL2010A-1-X	1(1.15)	0.074	12	0.1	0.94	1000	F	W		60
BL2010A-3-X	3(3.45)	0.074	2.5	0.1	0.94	1000	F	W		60
BL2010A-6-X	6(6.90)	0.074	1.0	0.1	0.94	1000	F	W		60
BL2010A-10-X	10(11.5)	0.074	0.8	0.1	0.94	1000	F	W		85
BL2010A-12-X	12(13.8)	0.074	0.7	0.1	0.94	1000	F	W		85
BL2010A-13-X	13(00.0)	0.074	0.7	0.1	0.94	1000	F	W		60
BL2010A-16-X	16(18.4)	0.074	0.6	0.1	0.94	1000	F	W		140
BL2010A-20-X	20(23.0)	0.074	0.7	0.1	0.94	1000	F	W	S	210
BL2010A-30-S	30(34.5)	0.074	0.7	0.47	0.94	1000			S	450
Medical Version Without Y cap										
BL2010B-1-X	1(1.15)	0.002	12	0.1		1000	F	W		60
BL2010B-3-X	3(3.45)	0.002	2.5	0.1		1000	F	W		60
BL2010B-6-X	6(6.90)	0.002	1.0	0.1		1000	F	W		60
BL2010B-10-X	10(11.5)	0.002	0.8	0.1		1000	F	W		85
BL2010B-13-X	12(13.8)	0.002	0.7	0.1		1000	F	W		85
BL2010B-12-x	13(00.0)	0.002	0.7	0.1		1000	F	W		60
BL2010B-16-X	16(18.4)	0.002	0.6	0.1		1000	F	W		140
BL2010B-20-X	20(23.0)	0.002	0.7	0.1		1000	F	W	S	210
BL2010B-30-S	30(34.5)	0.002	0.7	0.47		1000			S	450

To compile a complete part number, please replace the -.. with the required I/O connection style (e.g. BL 2010-30-S, BL 2010B-10-F). The different letters code the
 ** 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.

TYPICAL INSERTION LOSS, dB (50/50 Ohm)

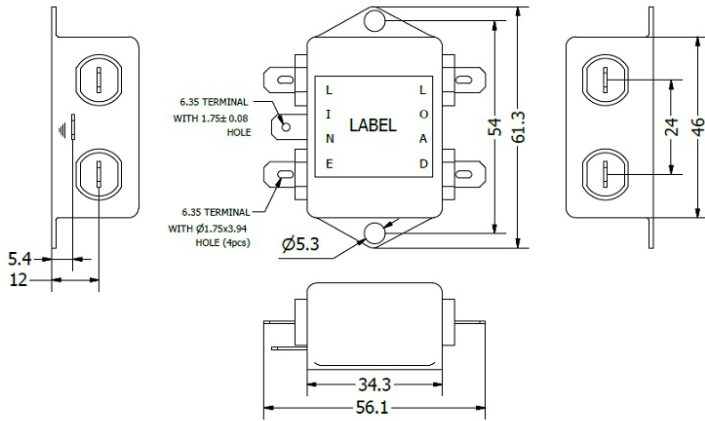
Common mode - —
 Differential mode - —



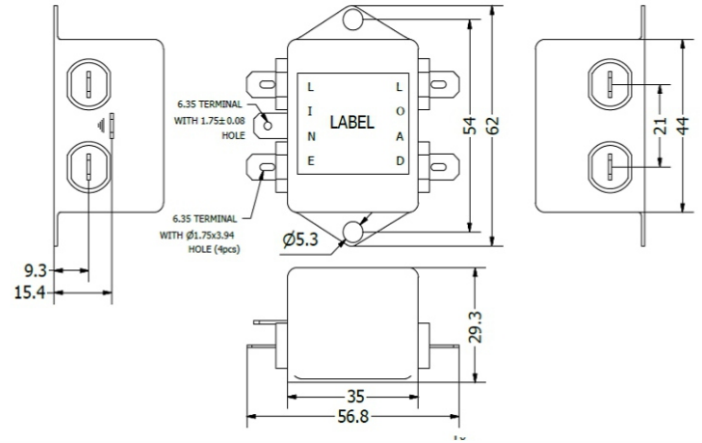
MECHANICAL DETAILS

Mechanical Drawing

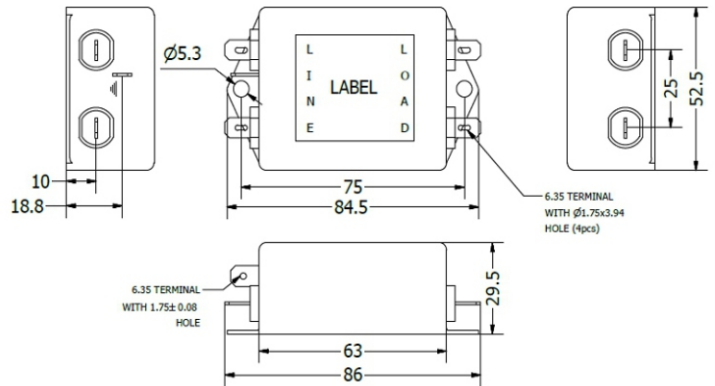
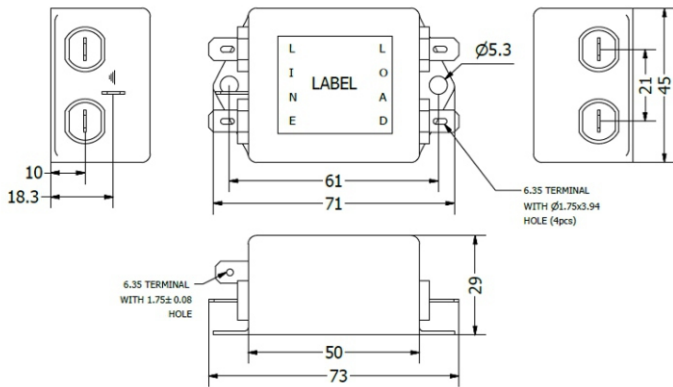
1 to 6 & 13Amp Faston Terminal



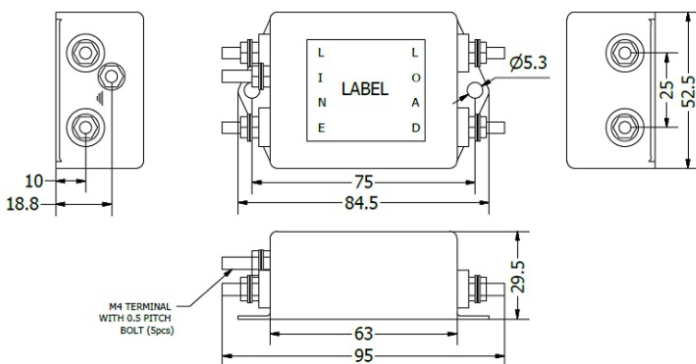
10 and 12 Amp Faston Terminal



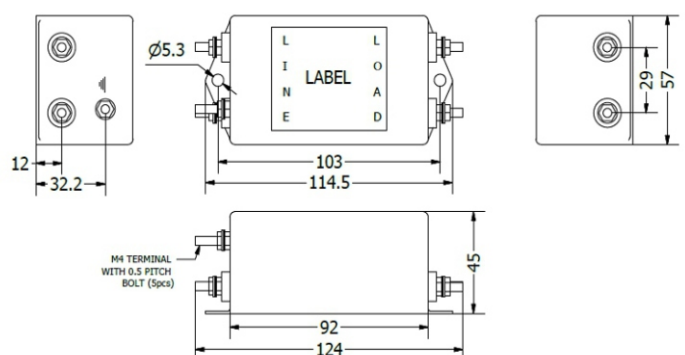
16Amp Faston Terminal



20Amp Screw Terminal



30Amp Screw Terminal (M4)



**All Dimension are in mm