

Dual-Stage High Performance AC/DC EMI FILTER

Feature and Benefits

- BL 2070 Two-stage filters are designed for easy and fast chassis mounting.
- The BL 2070 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.
- All filters provide a high conducted attenuation, performance, based on chokes with high saturation resistance and excellent thermal behaviour
- BL 2070 filters are also available as differential mode choke Filter (BL 2080)
- Various terminal options allow you to select the desired connection style
- Rated current from 1 to 36 A
- High deferential mode performance
- Optional medical version (Type B)
- Optional safety version (Type A)

Technical specifications

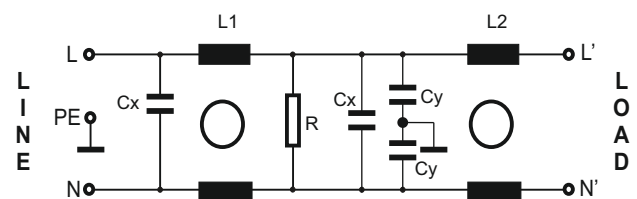
Maximum continuous operating voltage	250VAC, 50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	1 to 36A @40°C
High Potential Test voltage	L-GND 2550 VDC for 2 sec L-GND 3500 VDC for 2 sec (B types) L - N 1100 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Certified to	UL 1283, EC/EN60939 (Applies to AC and DC Applications)
Flammability Corresponding to	UL 94V-2 better

Typical Application

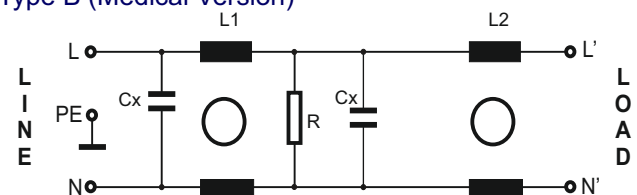
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment



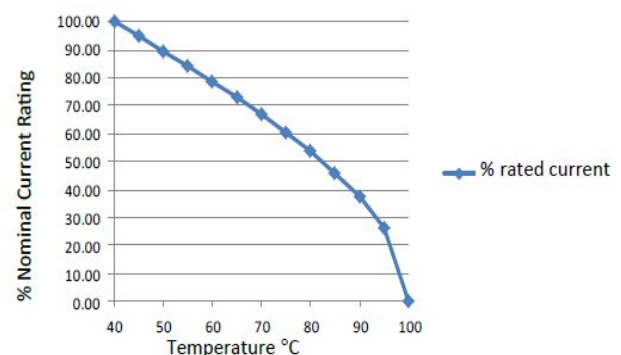
ELECTRICAL SCHEMATIC



Type B (Medical Version)



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



FILTER SELECTION TABLE

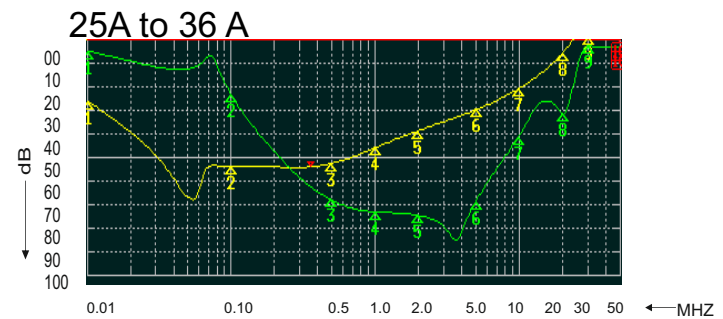
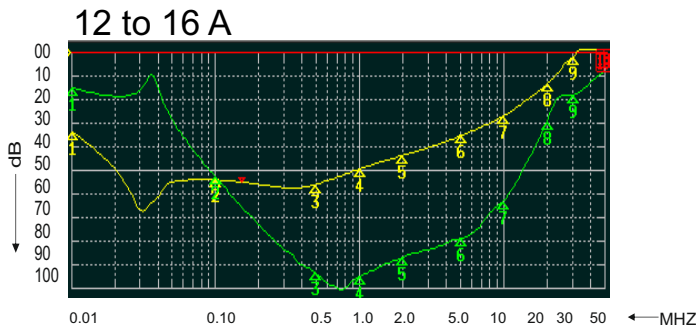
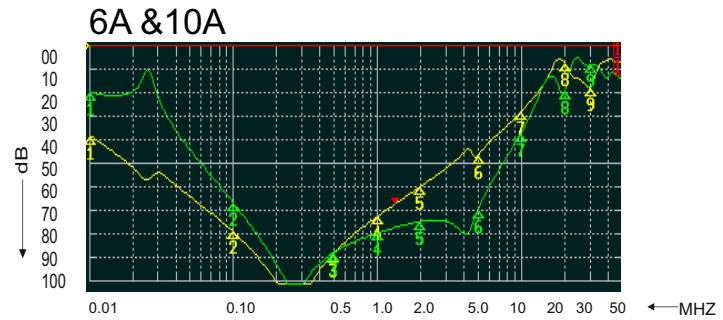
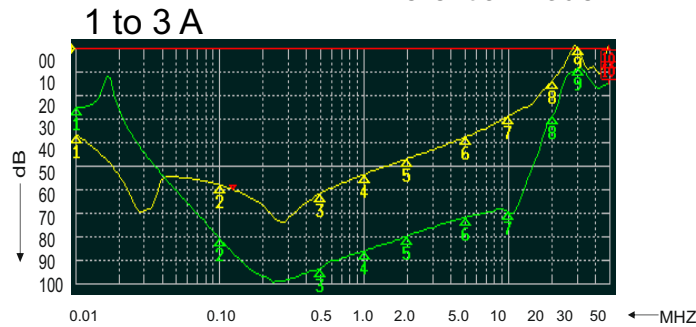
Filters**	Rated current @40°C A	Leakage current @250V/50Hz mA	Inductance (L-L) ΣL mH	Capacitance (L-N) ΣCx μF	Capacitance (L-G) ΣCy nF	Resistance (L-N) ΣR KΩ	Connction type			Weight gram (g)
										
BL2070-1-X	1(1.15)	0.66	44	0.66	9.4	1000	F	W		190
BL2070-3-X	3(3.45)	0.66	19.6	0.94	9.4	470	F	W		260
BL2070-6-X	6(6.90)	0.66	15.6	2	9.4	220	F	W		450
BL2070-10-X	10(11.5)	0.66	9	2	9.4	220	F	W		650
BL2070-12-X	12(13.8)	0.66	6.5	2	9.4	220	F	W		650
BL2070-16-X	16(18.4)	0.66	5.6	2	9.4	220	F	W	S	1000
BL2070-25-S	25(28.8)	0.66	4	4.4		220			S	750
BL2070-36-S	36(41.4)	0.66	2.46	4.4		220			S	750
Low Leakage Version										
BL2070A-1-X	1(1.15)	0.07	44	0.66	0.94	1000	F	W		190
BL2070A-3-X	3(3.45)	0.07	19.6	0.94	0.94	470	F	W		260
BL2070A-6-X	6(6.90)	0.07	15.6	2	0.94	220	F	W		450
BL2070A-10-X	10(11.5)	0.07	9	2	0.94	220	F	W		650
BL2070A-12-X	12(13.8)	0.07	6.5	2	0.94	220	F	W		650
BL2070A-16-X	16(18.4)	0.07	5.6	2	0.94	220	F	W	S	1000
BL2070A-25-S	25(28.8)	0.07	4	4.4	0.94	220			S	750
BL2070A-36-S	36(41.4)	0.07	2.46	4.4	0.94	220			S	750
Medical Version Without Y cap										
BL2070B-1-X	1(1.15)	0.00	44	0.66		1000	F	W		190
BL2070B-3-X	3(3.45)	0.00	19.6	0.94		470	F	W		260
BL2070B-6-X	6(6.90)	0.00	15.6	2		220	F	W		450
BL2070B-10-X	10(11.5)	0.00	9	2		220	F	W		650
BL2070B-12-x	13(00.0)	0.00	6.5	2		220	F	W		650
BL2070B-16-X	16(18.4)	0.00	5.6	2		220	F	W	S	1000
BL2070B-25-S	25(28.8)	0.00	4	4.4		220			S	750
BL2070B-36-S	36(41.4)	0.00	2.46	4.4		220			S	750

To compile a complete part number, please replace the -.. with the required I/O connection style (e.g. BL 2070-36-S, BL 2070B-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.

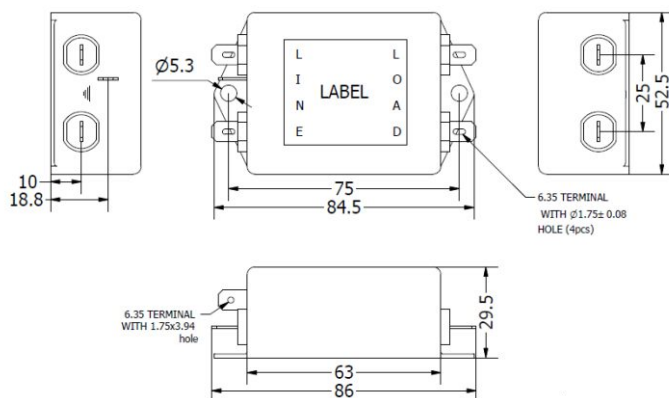
TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - —
Differential mode- —

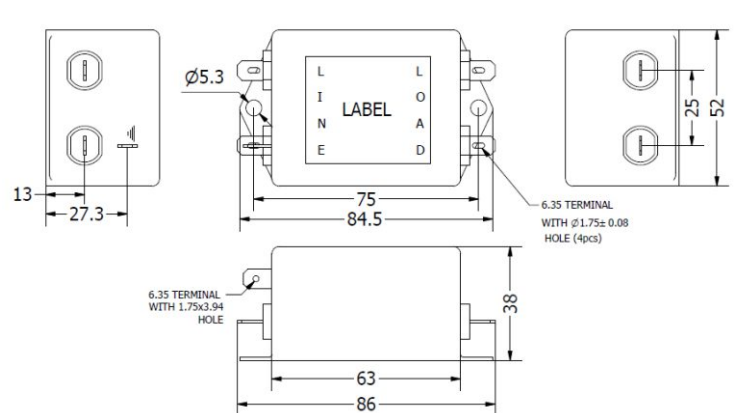


MECHANICAL DETAILS

1Amp Faston Terminal

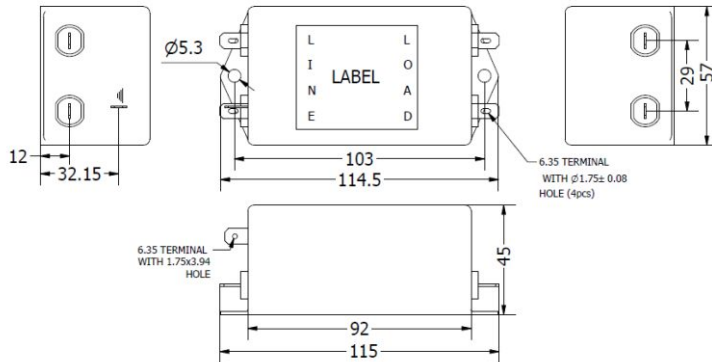


3Amp Faston Terminal

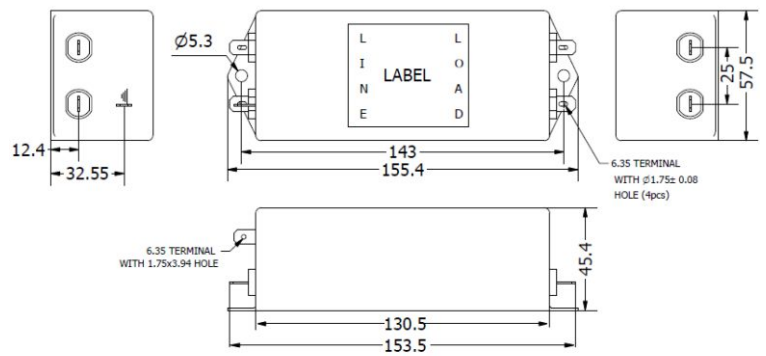


MECHANICAL DETAILS

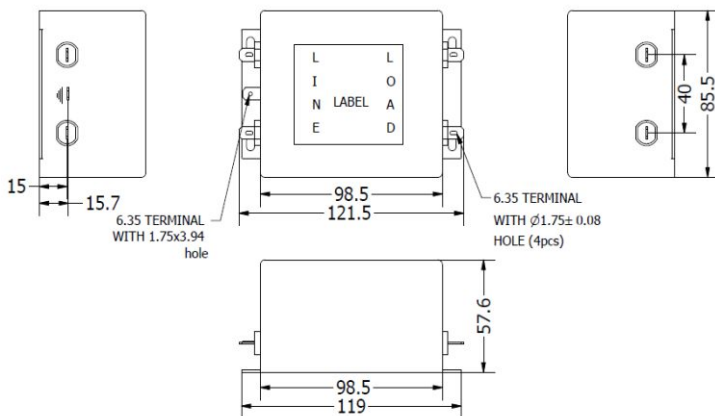
6 Amp Faston Terminal



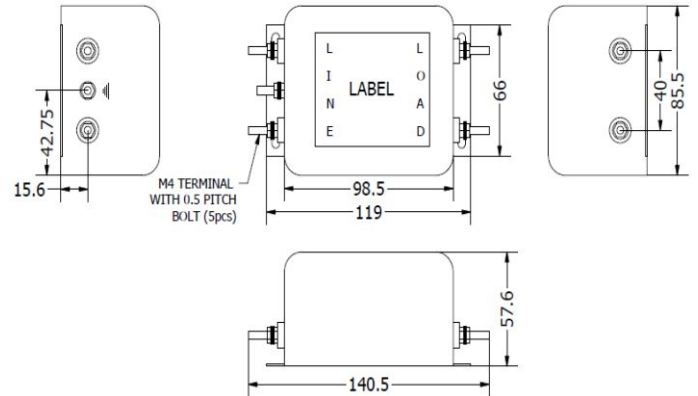
10 & 12Amp Faston Terminal



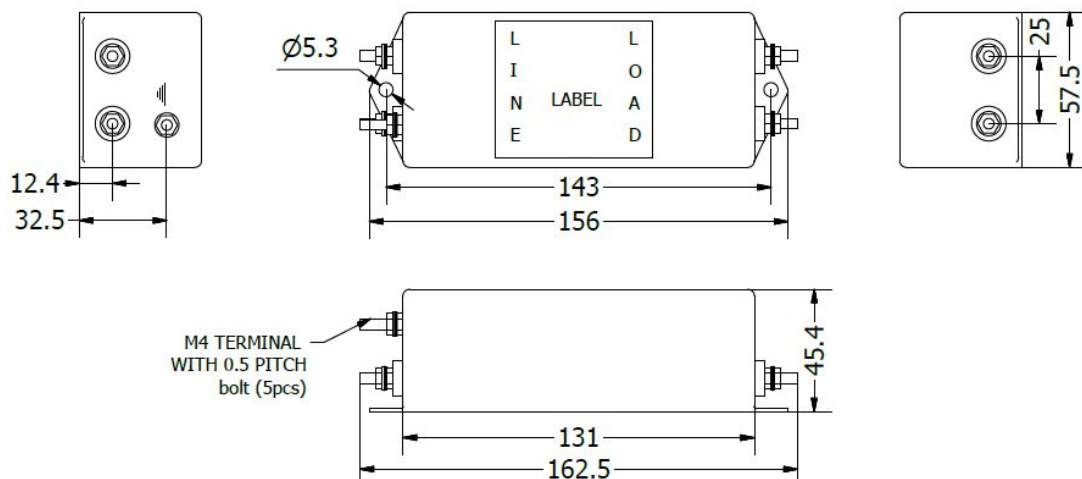
16 Amp Faston Terminal



16Amp Screw Terminal (M4)



25 & 36Amp Screw Terminal (M4)



**All Dimension are in mm