

General Performance AC/DC EMI FILTER

Feature and Benefits

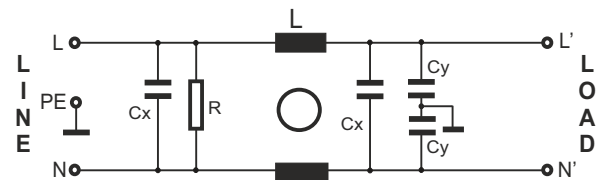
- BL 2020 Single-stage filters are designed for easy and fast chassis mounting.
- The BL 2020 filters are also available as B versions with no Y-capacitors for medical applications as well as A versions with low capacitance for safety critical applications with a requirement for low leakage currents.
- The BL 2020 Filter can be use to cover broad range of uses and they can offer a good size/amperages ratio
- BL 2020 filters are also available as dual stage filters (BL 2060 & BL2070 series).
- Various terminal options allow you to select the desired connection style
- Rated current from 1 to 30 A
- High deferential mode performance
- Optional medical version (Type B)
- Optional safety version (Type A)



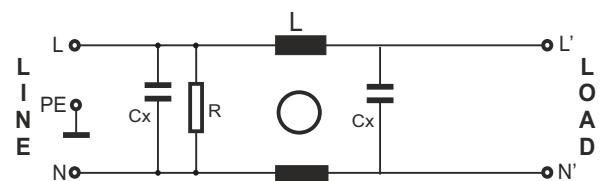
Technical specifications

Maximum continuous operating voltage	250VAC, 50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	1 to 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

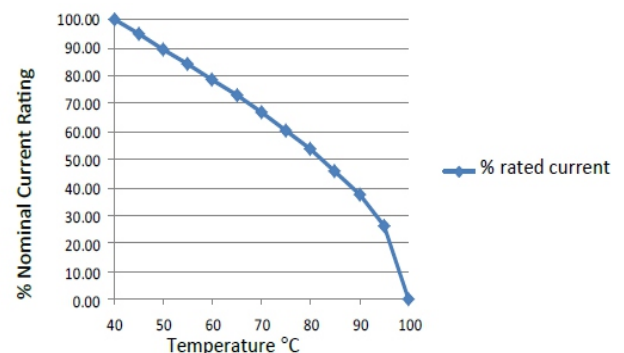
ELECTRICAL SCHEMATIC



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

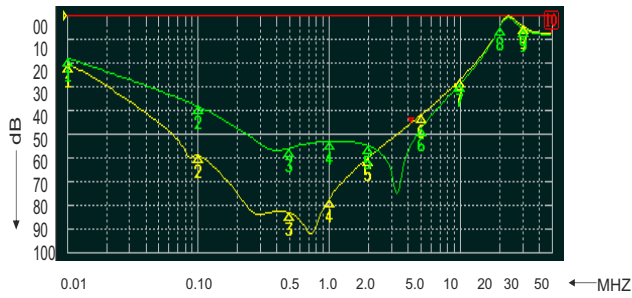
Filters**	Rated current @40°C A	Leakage current @250V/50Hz mA	Inductance (L-L) ΣL mH	Capacitance (L-N) ΣCx μF	Capacitance (L-G) ΣCy nF	Resistance (L-N) ΣR KΩ	Connction type			Weight gram (g)
										
BL2020-1-X	1(1.15)	0.74	12	0.3	9.4	1000	F	W		80
BL2020-3-X	3(3.45)	0.74	2.5	0.3	9.4	1000	F	W		80
BL2020-6-X	6(6.90)	0.74	1.0	0.3	9.4	1000	F	W		80
BL2020-10-X	10(11.5)	0.74	0.8	0.3	9.4	1000	F	W		85
BL2020-12-X	12(13.8)	0.74	0.7	0.3	9.4	1000	F	W		85
BL2020-16-X	16(18.4)	0.74	0.65	0.3	9.4	1000	F	W		135
BL2020-20-X	20(23.0)	0.74	0.6	9.4	9.4	1000	F	W	S	210
BL2020-30-S	30(34.5)	0.87	0.67	0.94	20	470			S	450
Low Leakage Version										
BL2020A-1-X	1(1.15)	0.074	12	0.3	0.94	1000	F	W		80
BL2020A-3-X	3(3.45)	0.074	2.5	0.3	0.94	1000	F	W		80
BL2020A-6-X	6(6.90)	0.074	1.0	0.3	0.94	1000	F	W		80
BL2020A-10-X	10(11.5)	0.074	0.8	0.3	0.94	1000	F	W		85
BL2020A-12-X	12(13.8)	0.074	0.7	0.3	0.94	1000	F	W		85
BL2020A-16-X	16(18.4)	0.074	0.65	0.3	0.94	1000	F	W		135
BL2020A-20-X	20(23.0)	0.074	0.6	0.3	0.94	1000	F	W	S	210
BL2020A-30-S	30(34.5)	0.074	0.67	0.94	0.94	470			S	450
Medical Version Without Y cap										
BL2020B-1-X	1(1.15)	0.002	12	0.3		1000	F	W		80
BL2020B-3-X	3(3.45)	0.002	2.5	0.3		1000	F	W		80
BL2020B-6-X	6(6.90)	0.002	1	0.3		1000	F	W		80
BL2020B-10-X	10(11.5)	0.002	0.8	0.3		1000	F	W		85
BL2020B-12-x	13(00.0)	0.002	0.7	0.3		1000	F	W		85
BL2020B-16-X	16(18.4)	0.002	0.65	0.3		1000	F	W		135
BL2020B-20-X	20(23.0)	0.002	0.6	0.3		1000	F	W	S	210
BL2020B-30-S	30(34.5)	0.002	0.67	0.94		470			S	450

To compile a complete part number, please replace the -.. with the required I/O connection style (e.g. BL 2020-30-S, BL 2020B-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.

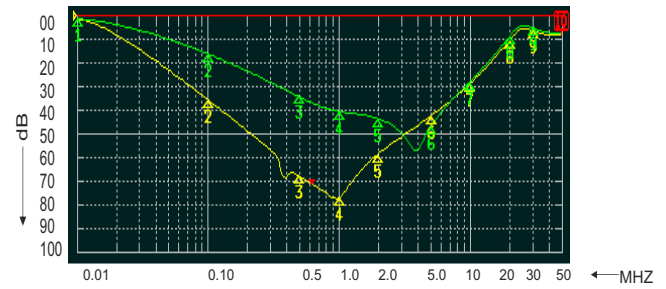
TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - —
 Differential mode- —

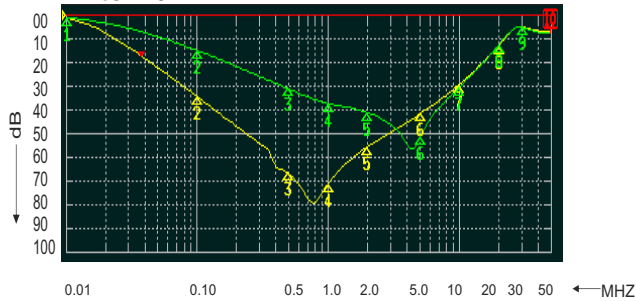
1 to 3 A



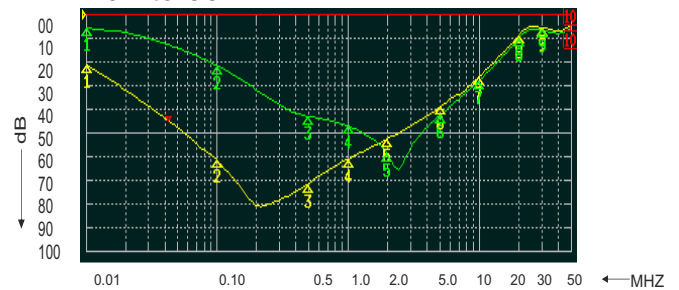
6 to 10 A



12 to 16 A

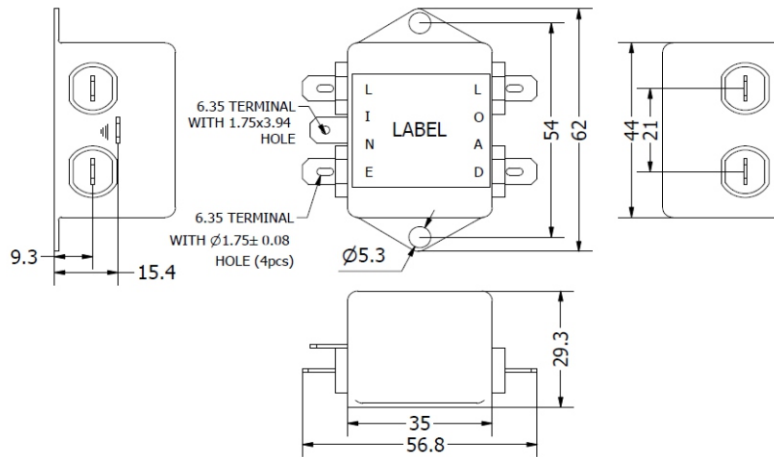


20A to 30 A

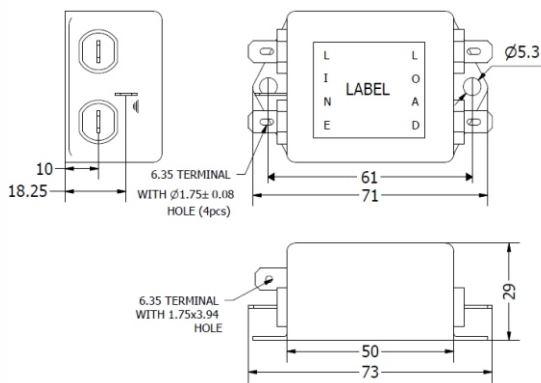


MECHANICAL DETAILS

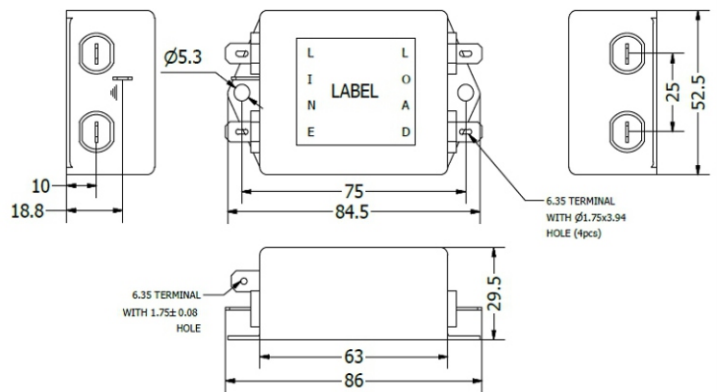
1 To 12 Amp



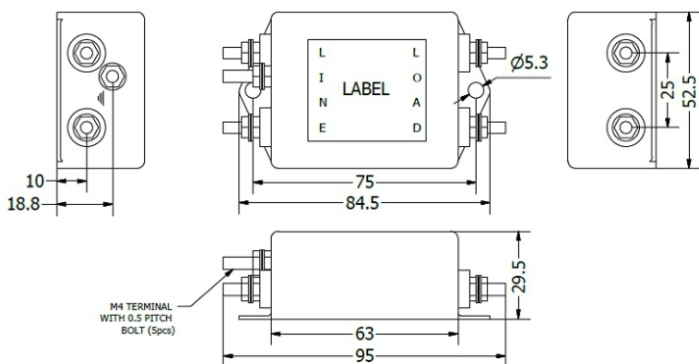
16 Amp Faston Terminal



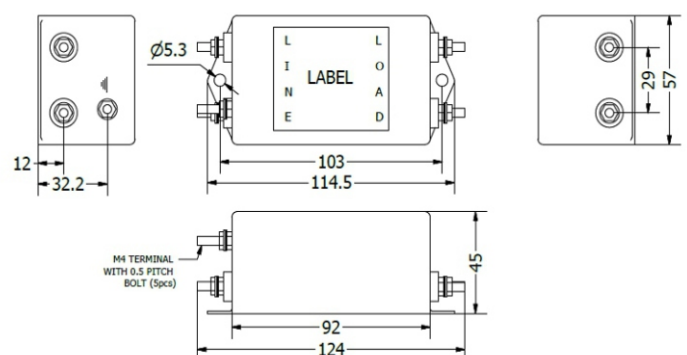
20 Amp Faston Terminal



20 Amp Screw Terminal(M4)



30 Amp Screw Terminal (M4)



**All Dimension are in mm