

High-Performance Line Filter for Machinery/ Equipment/EV Application

Feature and Benefits

- A compact and light weight Filter design with a requiring minimum mounting space with simple and time saving installation with good accessibility for automatic and hand tools
- BL 460 have solid, touch-safe Terminal block offering sufficient contacting cross section according to EN60204-1 installation standard
- BL 460 provides enough performance to ensure EMC compliance of machinery in mixed (Class A) or even domestic (Class B) environments
- BL 460 provides the attenuation performance needed to meet the requirement of various machine tools with up to 12 driving axes and ~10 to 20 m of motor each cable



Technical specifications

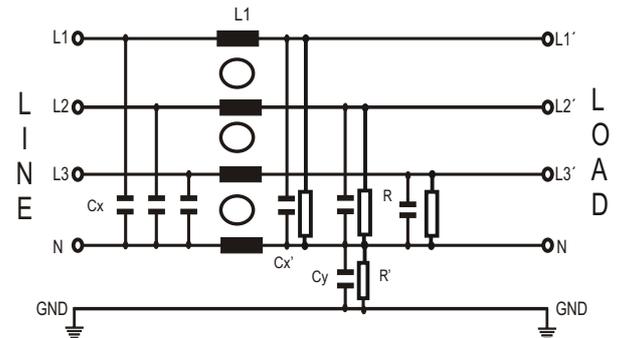
Maximum continuous operating voltage	3x440/300 VAC, 50/60Hz
Operating Frequency	50/60Hz
Rated Currents	16 to 150A @50°C
High Potential Test voltage	L/N-GND 2800 VDC for 2 sec L-L 500 VDC for 2 sec (BL358H) L-N 1300 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Design corresponding to	UL 1283, IEC/EN60939
Flammability Corresponding to	UL 94V-2 better
Protection Category	IP 20
Overload Capability	1.5x Rated Current for 60 sec, once/hour
MTBF@50°C/400 V (Mil-HB-217F)	>360000 hours

- New solid safety connector blocks available for the whole range
- Exceptional attenuation performance with low Leakage current
- Increase also the immunity if operated directly on mains input
- Most compact and slim filter design in fit with class C1 & C2 limit

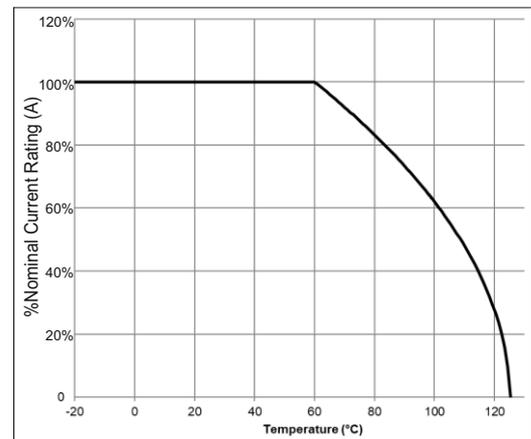
Typical Application

- Three-phase variable speed motor drives, servo drives, inverters and converters
- Applications comprising energy conversion devices like machines or process automation equipment
- HVAC equipment, elevators, power supplies, UPS and further three-phase applications
- EV Charger & station, Renewable energy Application

ELECTRICAL SCHEMATIC



Temperature Derating Curve for EMC Filters Rated at 50°C Ambient and 100°C Maximum



FILTER SELECTION TABLE

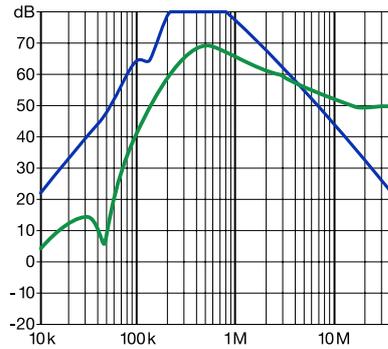
Filters**	Rated current @50°C	Leakage current @520VAC/50Hz	Typical drive Power Rating	Power Loss @25°C/50Hz	Connention type Input/Output	Weight
	A	mA	kW	W		Kg
BL460-16-T	16	8.5	8	6	T	0.8
BL460-25-T	30	8.5	13	11.6	T	1.3
BL460-36-T	50	10.7	18.5	14.8	T	1.6
BL460-64-T	75	10.7	33	18.4	T	2.7
BL460-80-T	100	10.7	41	18.9	T	4.1
BL460-120-T	120	10.7	62.4	28.5	T	5.9
BL460-150-T	150	10.7	83	30.7	T	7.9

** Standardized calculated leakage current acc. IEC60939 under normal operating conditions (BL 460 at 440 VAC).

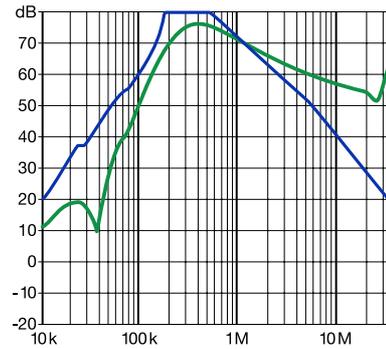
TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - —
Differential mode- —

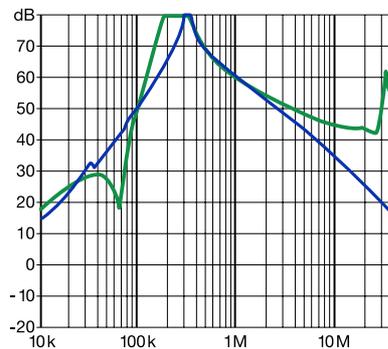
16 A types



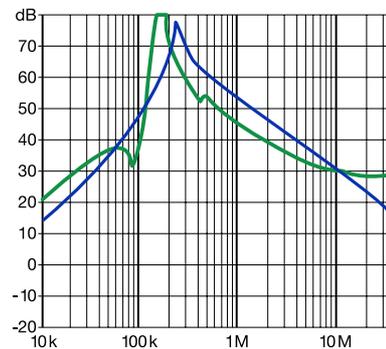
30 and 50A types



75 to 120 A types

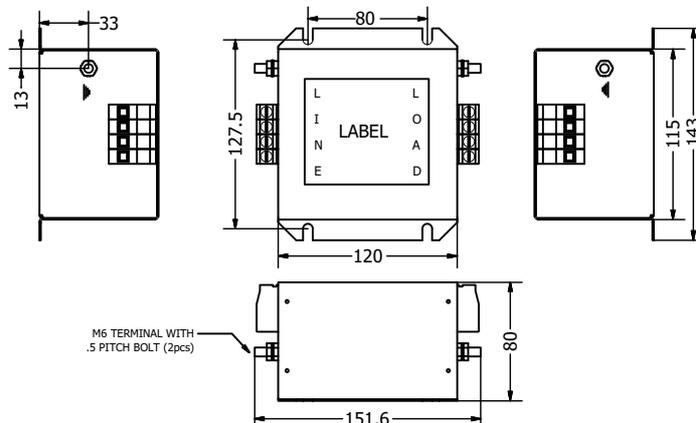


150A



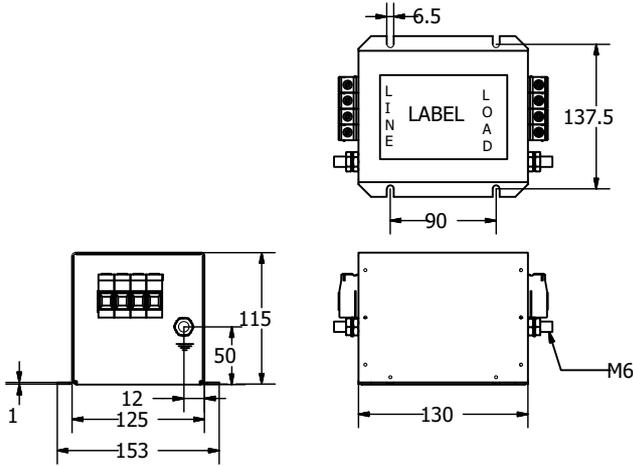
MECHANICAL DETAILS

16 Amp Terminal block

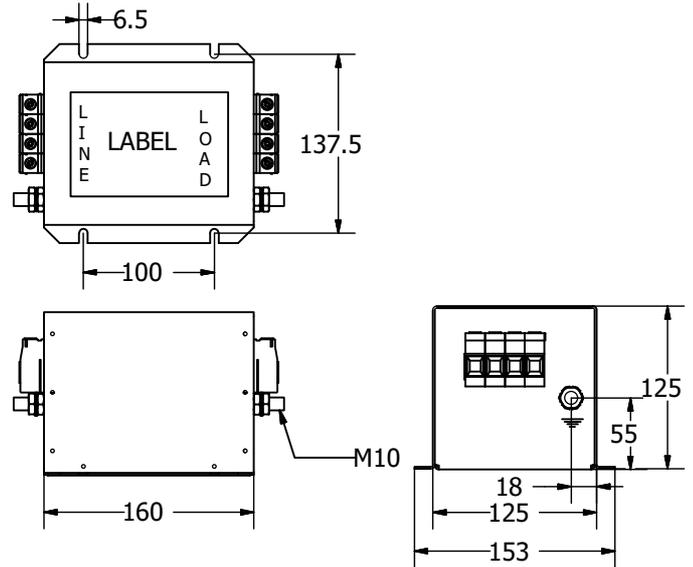


MECHANICAL DETAILS

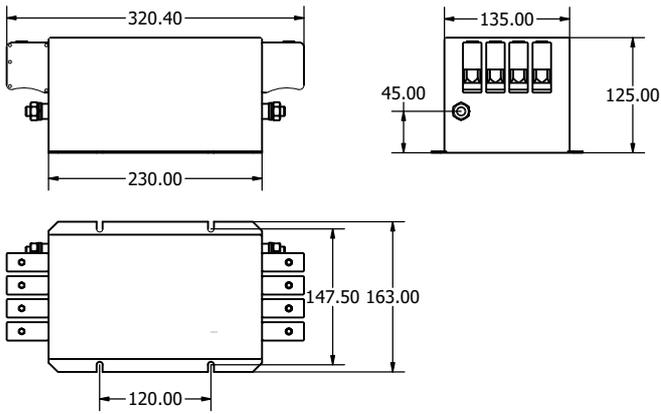
30 & 50 Amp Terminal block



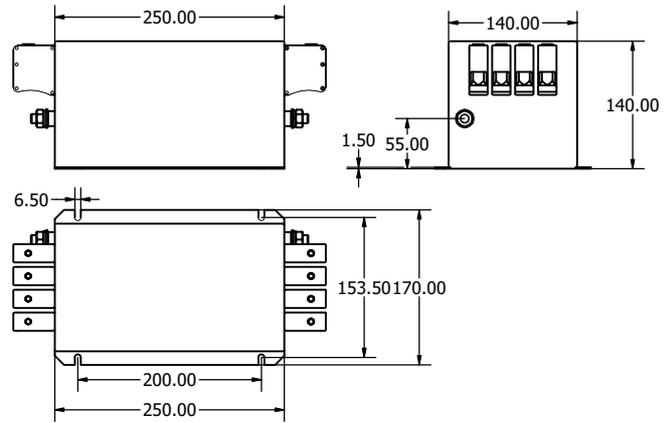
75Amp Terminal block



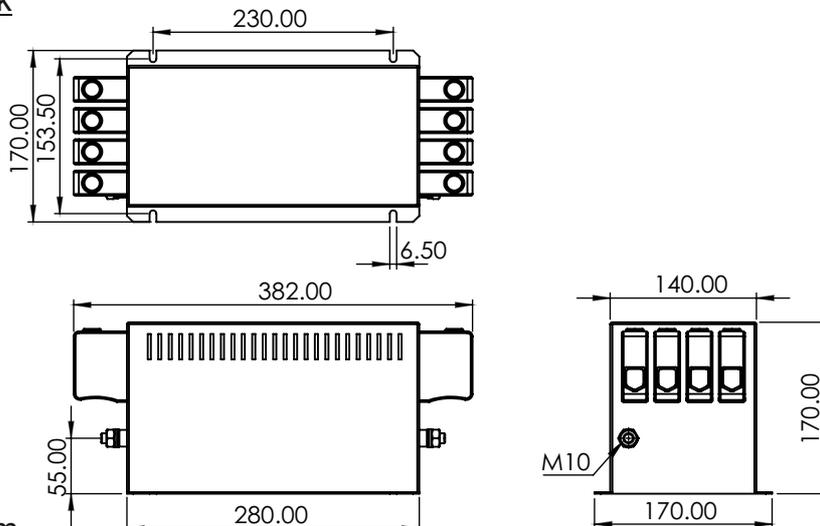
100 Amp Terminal block



120 Amp Terminal block



150 Amp Terminal block



**All Dimension are in mm