

Compact Three Phase Filter For Low Leakage 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 251 Three Phase Filter provides a Cost-effective EMI suppression solution for a wide variety of Application
- Available in Multiple versions, with current ratings from 4 to 50 Ampere, the filters employ a Dual -stage four-wire LC circuit with saturating resistant chokes, and have a very low operational leakage current
- High Performance Filter with Insulated safety input terminals & wire outputs.



Technical Specifications

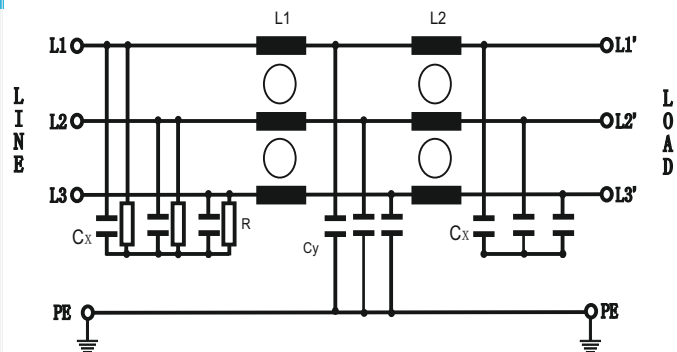
Maximum continuous operating voltage	3x440/250 VAC,50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	4 to 50A @40°C
High Potential Test voltage	L/N-GND 2800 VDC for 2 sec L-L 1900 VDC for 2 sec L-N 1150 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Design corresponding to	UL 1283,IEC/EN60939
Flammability Corresponding to	UL 94V-2 better
Protection Category	IP 20
Overload Capability	4x Rated Current at switch on

- Ultra-Slim Size Four-wire for compact space Application
- Exceptional low Leakage current
- Equally Suitable for Star & Delta Power Network

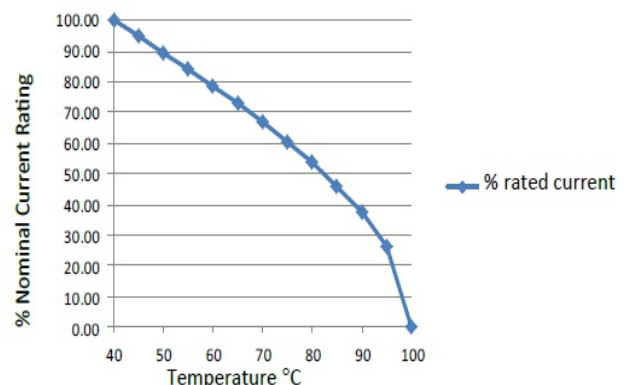
Typical Application

- 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 40°C Ambient and 100°C Maximum



FILTER SELECTION TABLE

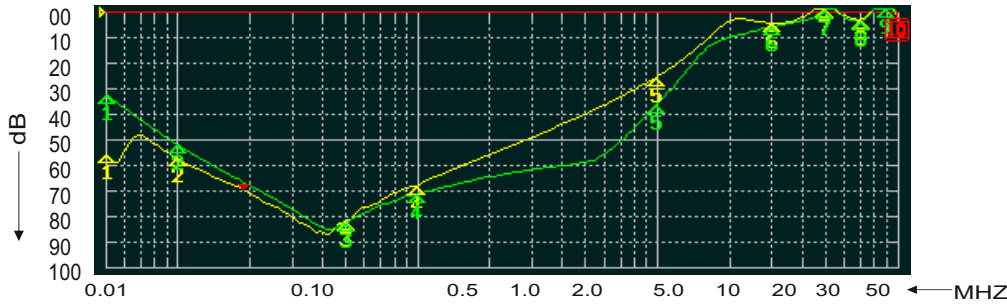
Filters**	Rated current @40°C	Leakage current @400VAC/50Hz	Power Loss @25°C/50Hz	Connction type Input/Output
	A	mA	W	
BL251-4-T	4	0.50	145X75X40	Wire/16ANG
BL251-8-T	8	0.50	145X75X40	Wire/16ANG
BL251-16-T	16	0.50	180X115X60	Wire/14ANG
BL251-20-T	20	0.5	180X115X60	Wire/14ANG
BL251-25-T	25	0.50	180X115X60	Wire/14ANG
BL251-36-T	36	0.73	180X115X80	Wire/8ANG
BL251-50-T	50	0.73	180X115X80	Wire/8ANG

** Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

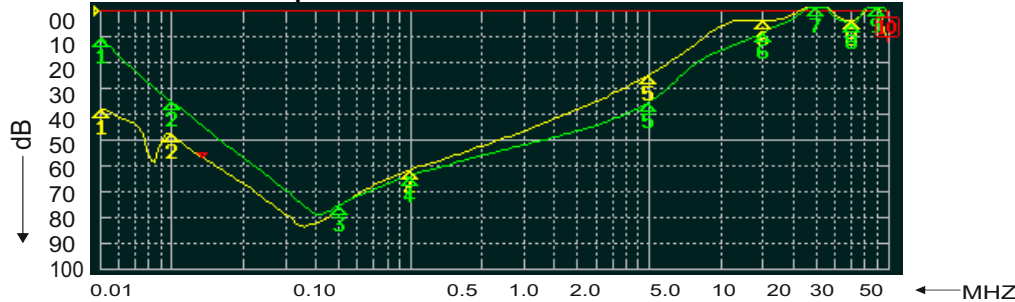
TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - —
Differential mode- —

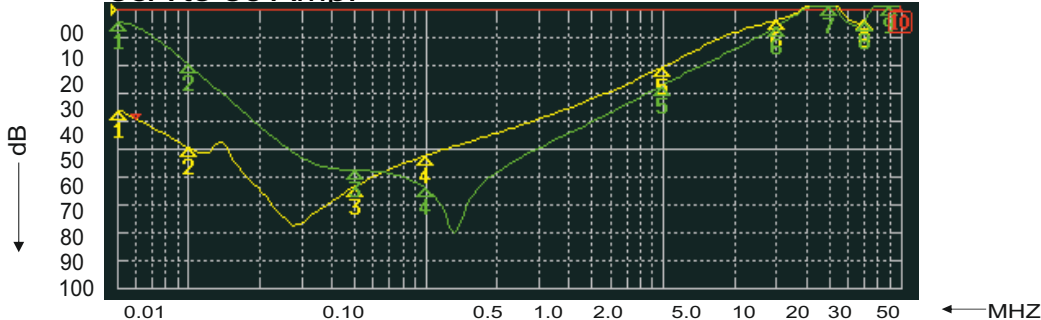
4 to 8 Amp.



16 to 25 Amp.

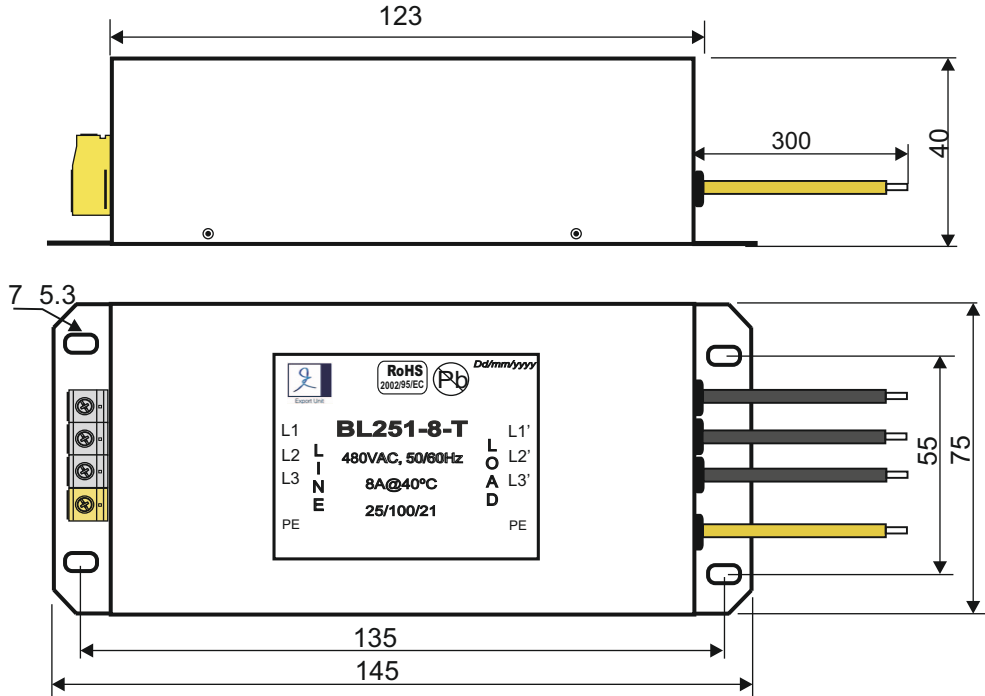


36A to 50 Amp.

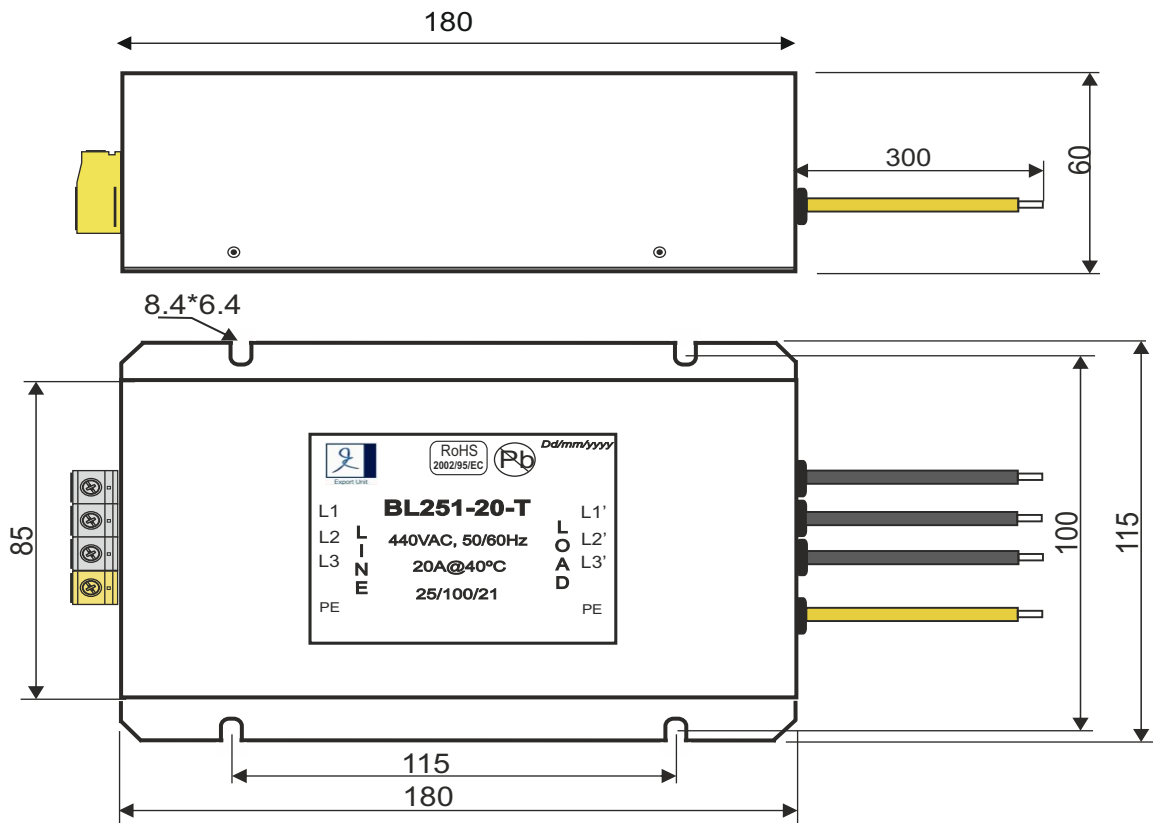


MECHANICAL DETAILS

*For 4 to 8 Ampere Current Rating



*For 16 to 50 Ampere Current Rating



Note: Housing matl. Fe+Ni Plated, 1mm Thk
 Terminal Block, 6mm²
 Cable 14AWG,UL1015 (Optional: Terminal Block)
TOLERANCE: +/-1.0 mm

