

Ultra-Compact Three Phase+Neutral Filter 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 455 Three Phase and Neutral Line Filter provides a Cost-effective EMI suppression solution for a wide variety of Application
- Available in four versions, with current ratings from 3 to 20 A, the filters employ a single-stage four-wire LC circuit with saturating resistant chokes, and have a very low operational leakage current



Technical specifications

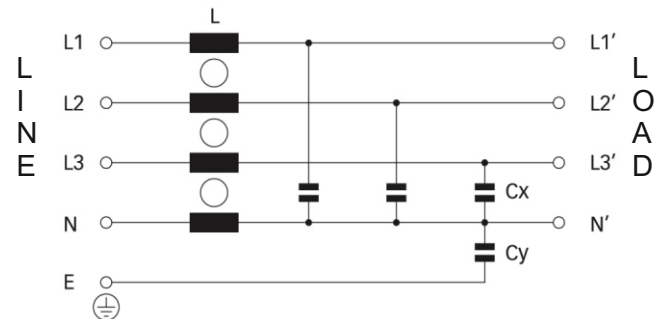
Maximum continuous operating voltage	3x440/250 VAC,50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	3 to 20A @40°C
High Potential Test voltage	L/N-GND 2800 VDC for 2 sec L-L 1900 VDC for 2 sec L-N 1150 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Design corresponding 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

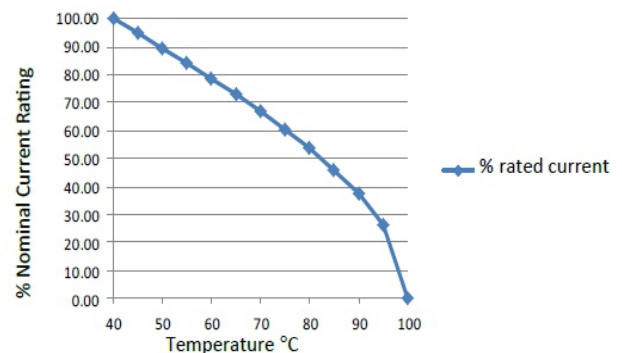
Typical Application

- 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 Applications.


ELECTRICAL SCHEMATIC



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



FILTER SELECTION TABLE

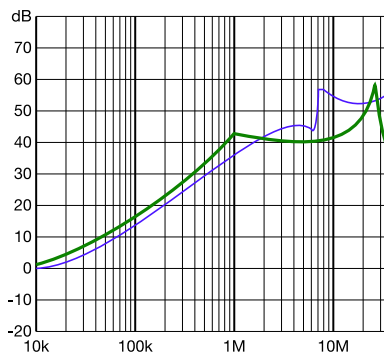
Filters**	Rated current @40°C A	Leakage current @400VAC/50Hz mA	Power Loss @25°C/50Hz W	Connction type Input/Output 	Weight Kg
BL455-3-F	3	0.07	1.4	F	0.3
BL455-6-F	6	0.07	1.5	F	0.3
BL455-10-F	10	0.07	1.8	F	0.3
BL455-15-F	15	0.30	3.4	F	0.3
BL455-20-F	20	0.30	3.4	F	0.35

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

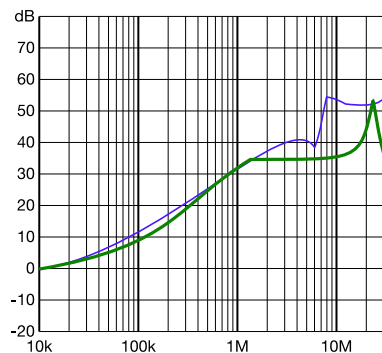
TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - —
Differential mode- —

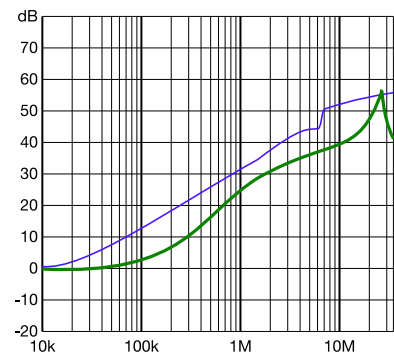
3 A types



6 A types



10 and 20A types



MECHNICAL DETAILS

3 TO 20 Amp Faston Terminal

