

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 420 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 8 to 25 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

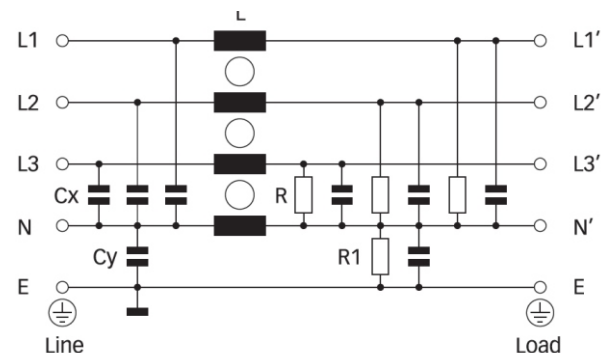
Maximum continuous operating voltage	3x440/250 VAC,50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	8 to 25A @40°C
High Potential Test voltage	L/N-GND 2800 VDC for 2 sec L-L 1900 VDC for 2 sec L-N 1150 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Design corresponding 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 Networkd

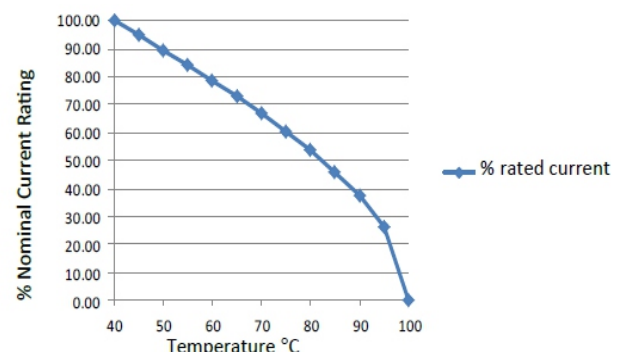
Typical Application

- Medical and UPS
- Applications comprising energy conversion devices
- Industrial Machinery & equipment
- EV Charger & station ,Renewable energy Application


ELECTRICAL SCHEMATIC



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



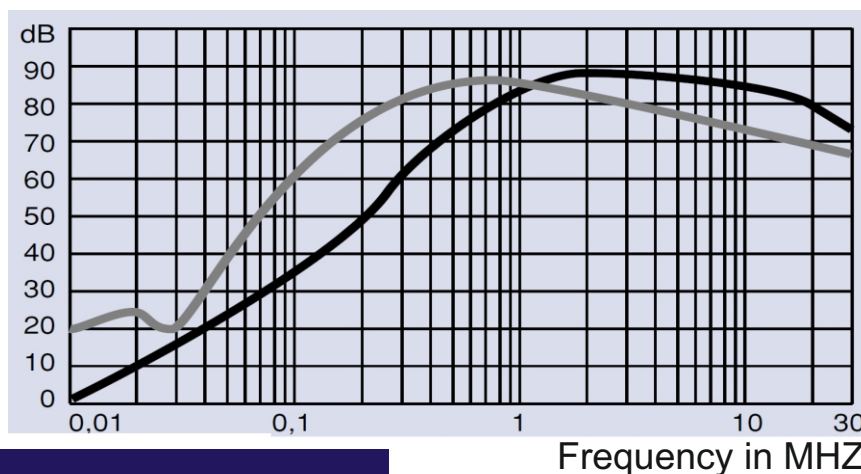
FILTER SELECTION TABLE

Filters**	Rated current @40°C	Leakage current @400VAC/50Hz	Power Loss @25°C/50Hz	Connction type Input/Output	Weight
	A	mA	W		Kg
BL420-8-T	8	3	1.4	T	0.65
BL420-10-T	10	3.4	1.5	T	0.65
BL420-16-T	16	3.5	1.8	T	0.85
BL420-20-T	20	3.50	3.4	T	1.2
BL420-25-T	25	3.50	3.4	T	1.2

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

TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Insertion Loss: Common mode - 
Differential mode- 



MECHANICAL DETAILS

8 TO 25 Amp

INPUT/OUTPUT Terminal Option

F- Faston 6.35x0.8mm

S-M4 Screw

T- Terminal Block

