

The PE 3120 Series is Ultra-compact EMC/RFI Filter for Three-phase Systems and Motor Drives



PE 3120



Description :

- The extremely compact and slim filter design allows a trouble-free installation even where the available mounting space is minimal
- Exceptional attenuation performance from 150KHz to 30MHz
- Feed through terminal block, fast and easy to mount, light weight

Typical Applications :

- Three-phase variable speed motor drives, servo drives
- Inverters and converters
- HVAC equipment, elevator, power supply, UPS and further three-phase applications.
- Industrial applications comprising power conversion devices, such as machinery, machine tools or process automation equipment

Electrical Schematic :

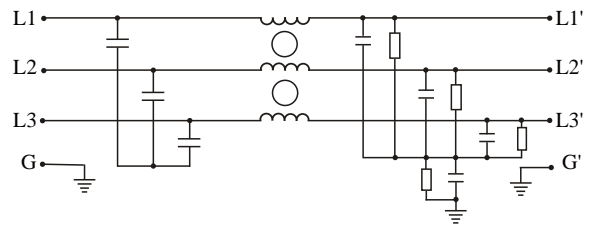



Fig 1

Specification :

Rated Voltage:	275/480 VAC
Rated Current:	7A~42A
Operating Frequency:	DC to 60Hz
Temperature Range:	HPF 40/085/21
Protection Category:	IP 20
Test Voltage (1min):	
Line to Ground:	2250 VDC
Line to Line:	1500 VDC

Filter Selection Table :

Filter	Rated Current (A)	Rated Voltage (V)	Leakage Current (mA)	Input/Output Connections 	Electrical Schematic	Dimension
PE3120-7-50	7	275/480	33	50	1	1
PE3120-10-50	10	275/480	33	50	1	1
PE3120-16-50	16	275/480	33	50	1	2
PE3120-30-50	30	275/480	33	50	1	3
PE3120-42-50	42	275/480	33	50	1	4

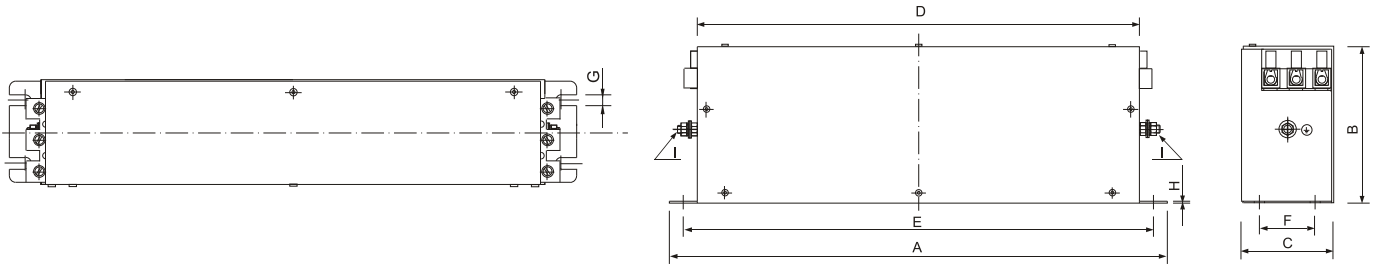
Maxium leakage under normal operating conditions.

Note: if two phases are interrupted, worst case leakage could reach 6-8 times higher levels.

Mechanical Dimension:

(Unit:mm)

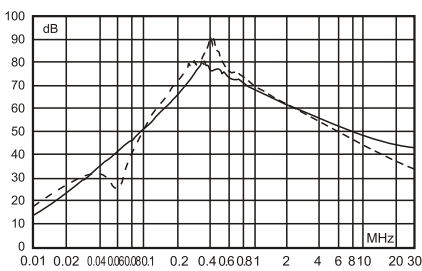
All dimensions in mm; 1 inch=25.4mm



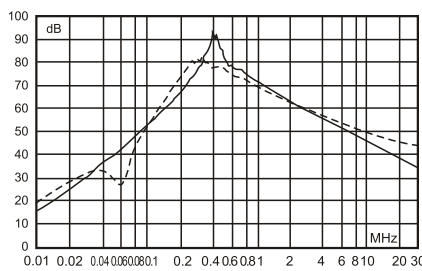
Filter	A	B	C	D	E	F	G	H	I
PE3120-7-50	190	70	40	160	180	20	4.5		M5
PE3120-10-50	190	70	40	160	180	20	4.5	1	M5
PE3120-16-50	250	70	45	220	235	25	5.4	1	M5
PE3120-30-50	270	85	50	240	255	30	5.4	1	M6
PE3120-42-50	310	85	50	280	295	30	5.4	1	M6

Insertion Loss in dB:

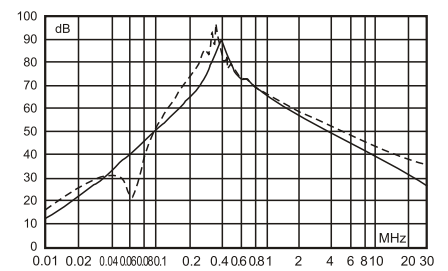
(Measured in 50Ω system , as IEC/CISPR NO.17)



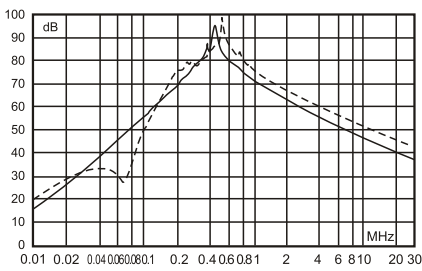
7A



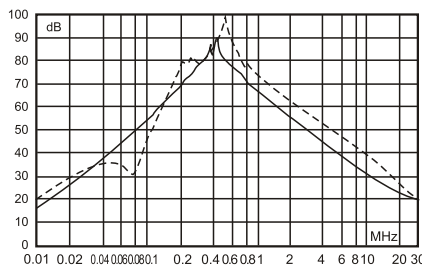
10A



16A



30A



42A

----- Differential Mode
 ——— Common Mode