

Three Phase Power Line Filter for High Voltage Applications

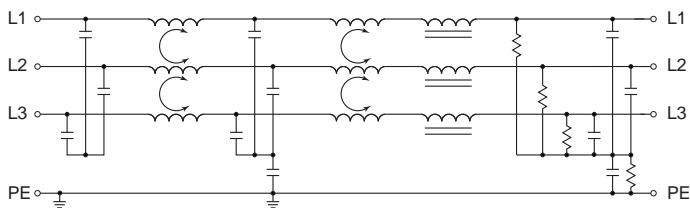
CFN Series


UL Recognized


CFN Series

The CFN Series is designed to meet UL1283, CSA and EN133200. The CFN Series is a universal high current filter for industrial applications like frequency convertors, high current drive systems, industrial three phase systems, higher current UPS's, mining equipment, alternative power generation and others.

Electrical Schematic



Resistor location for reference only.

Specifications

Maximum leakage current at 10% unsymmetrical mains (3 Phase WYE Center Tapped)
Each line to Ground:

@ 120 VAC 60 Hz:	5.0 mA
@ 277 VAC 50 Hz:	9.6 mA

Hipot rating (one minute):

line-to-ground	2210 VDC
line-to-line	2158 VDC

Operating frequency:

50/60 Hz

Rated voltage (max.):

 480 VAC phase-to-phase
 277 VAC phase to ground

Rated current:

400 Amps*

Typical insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz									
	.01	.03	.07	.1	.15	.5	1	5	10	30
400A	10	19	26	40	55	82	76	51	37	20

Line-to-line in 50 ohm circuit

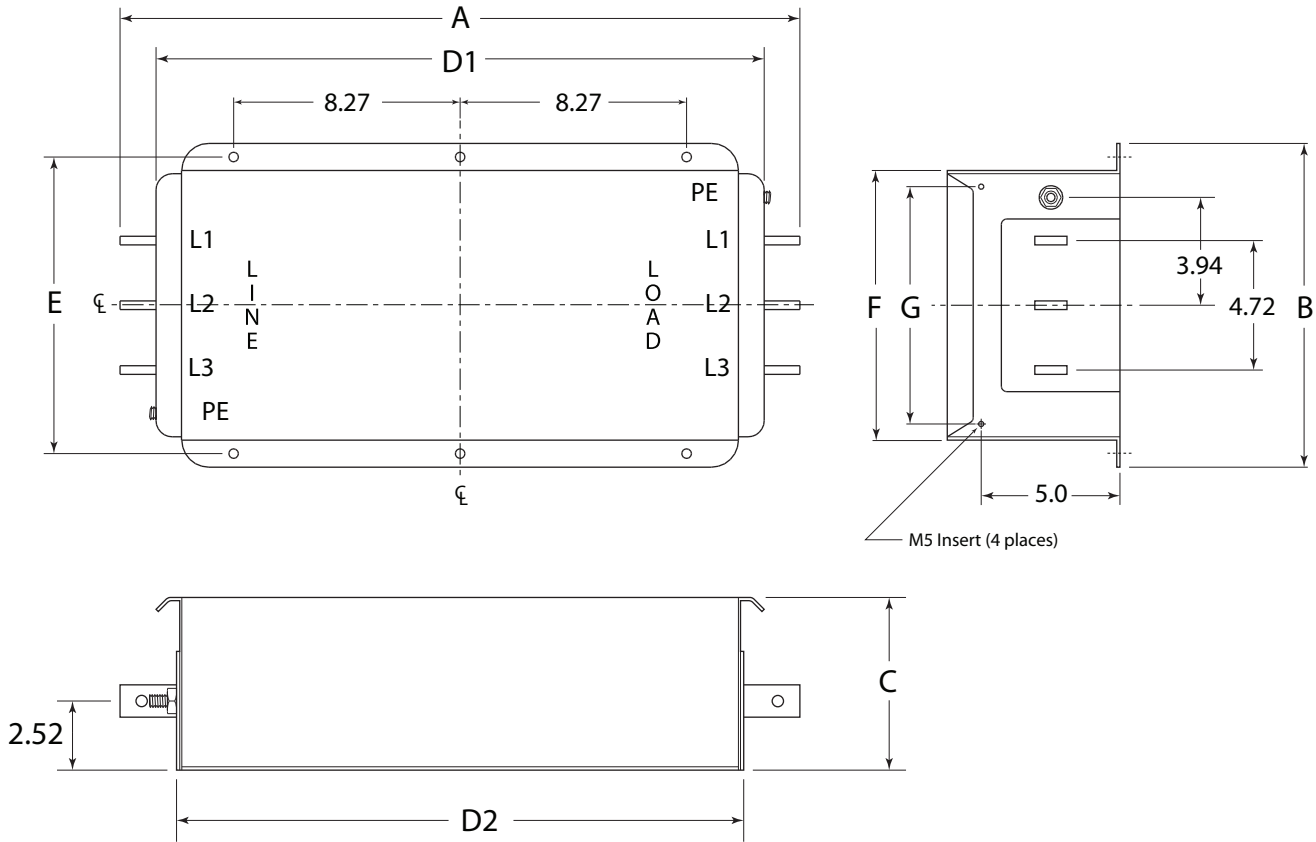
Current Rating	Frequency-MHz									
	.01	.03	.07	.1	.15	.5	1	5	10	30
400A	32	40	27	55	70	66	57	40	34	20

* In an ambient temperature (T_a) higher than 40°C, the maximum operating current (I_θ) is calculated as follows: $I_\theta = I_R \sqrt{(100-T_a)/60}$

Three Phase Power Line Filter for High Voltage Applications (Continued)

CFN Series

Case Style



Typical Dimensions:

- Copper Bar Terminals (6x): 1.18 x 0.31
- Holes (6x): .413 dia.
- Screw Terminals (2x): M12, 22 ft. lb. max. torque
- Inserts (4x): M5 threaded, 1.1 ft. lb. max. torque

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D1 (ref.)	D2 (max)	E ± .02	F (max)	G ± .02	H (ref.)
400CNF12	24.8 630	11.81 300	6.30 160	22.20 564	20.31 516	10.83 275	9.84 250	8.66 220	5.0 127

Part Number

400CNF12