

Three Phase Delta Power Line Filter for High Voltage Applications

CFN Series



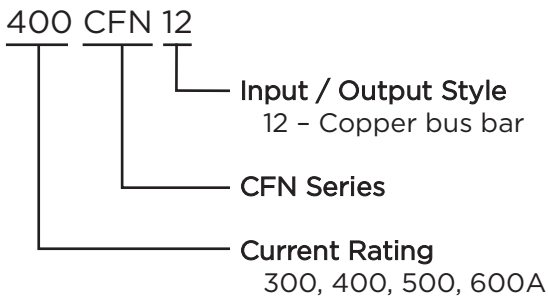
UL Recognized *



CFN Series

- Universal high current filter
- Ideally suited for industrial applications including; motor drives, inverters, converters, uninterruptible power supplies and mining equipment

Ordering Information



Available Part Numbers

300CFN12	400CFN12
500CFN12	600CFN12

* 400CFN12 only

Specifications

Maximum leakage current at 10% unsymmetrical mains line to ground (3 Phase WYE Center tapped)*:

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

** If 2 phases are interrupted, this leakage current may rise to a significantly higher level*

Hipot rating (one minute):

line to ground: 2210 VDC
line to line: 2158 VDC

Rated Voltage (max):

phase to phase: 480 VAC
phase to ground: 277 VAC

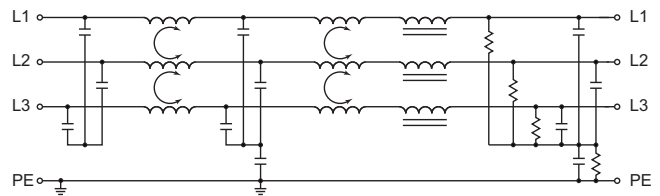
Operating Frequency: 50/60 Hz

Rated Current: 300 to 600A

Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C

In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

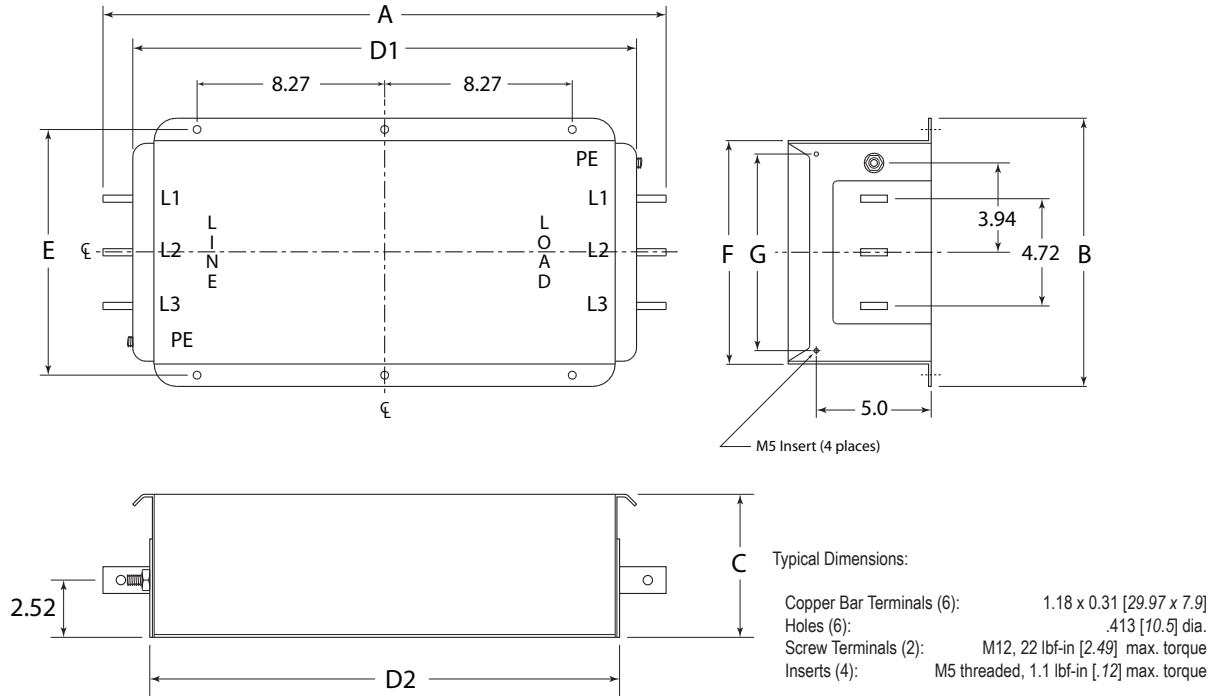
Electrical Schematic



Three Phase Delta Power Filter for High Voltage Applications *(continued)*

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Case Style



Case Dimensions

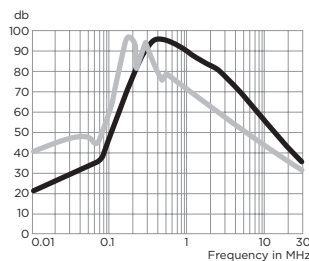
Part No.	A (max.)	B (max.)	C (max.)	D1 (ref.)	D2 (max.)	E $\pm .02$ $\pm .50$	F (max)	G $\pm .02$ $\pm .50$	H (max.)
300-600CFN12	24.8 630.0	11.81 300.0	6.30 160.0	22.20 564.0	20.31 516.0	10.83 275.0	9.84 250.0	8.66 220.0	5.0 127.0

Performance Data

Typical Insertion Loss

Measured in closed 50 ohm system

300-600CFN12



— Common Mode / Asymmetrical (L-G)
- - - Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz									
	.01	.03	.07	.1	.15	.5	1	5	10	30
300-600A	10	19	26	40	55	82	76	51	37	20

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz									
	.01	.03	.07	.1	.15	.5	1	5	10	30
300-600A	32	40	27	55	70	66	57	40	34	20