

3-phase Delta Power Line Filter for High Voltage Applications

CFN Series



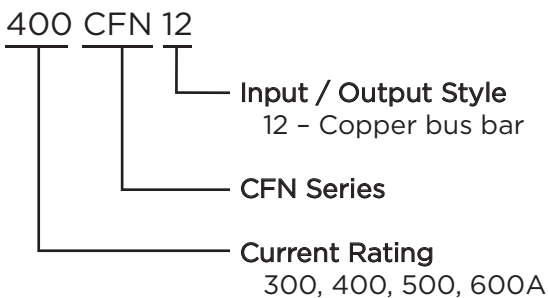
UL Recognized*



CFN Series

- Universal high current filter
- Suitable 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

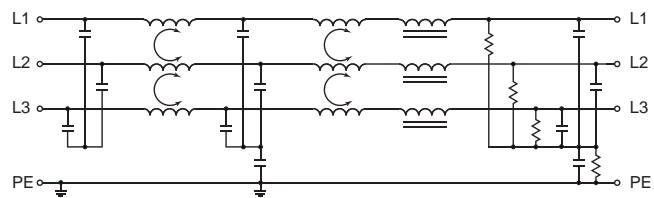
Rated Current:

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: $I_o = I_r \sqrt{(85 - T_a) / 45}$

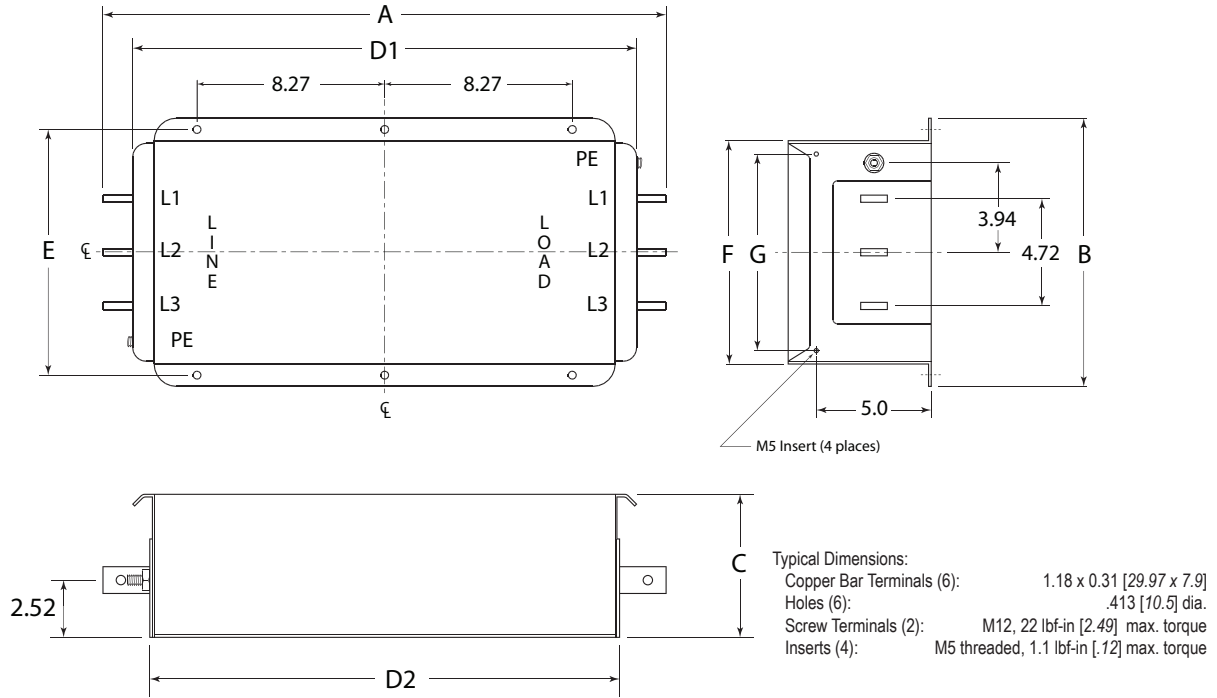
Electrical Schematic



3-phase Delta Power Filter for High Voltage Applications *(continued)*

CFN Series

Case Style



Case Dimensions

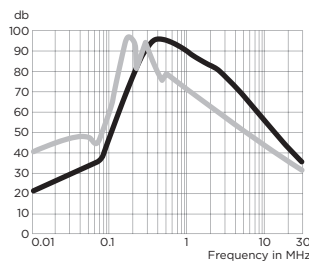
Part No.	A (max.)	B (max.)	C (max.)	D1 (ref.)	D2 (max.)	E $\pm .02$ $\pm .50$	F (max)	G $\pm .02$ $\pm .50$	H (max.)
300-600CFN12	24.8 <i>630.0</i>	11.81 <i>300.0</i>	6.30 <i>160.0</i>	22.20 <i>564.0</i>	20.31 <i>516.0</i>	10.83 <i>275.0</i>	9.84 <i>250.0</i>	8.66 <i>220.0</i>	5.0 <i>127.0</i>

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