

Compact Low Current 3-phase WYE RFI Filters

AYO Series



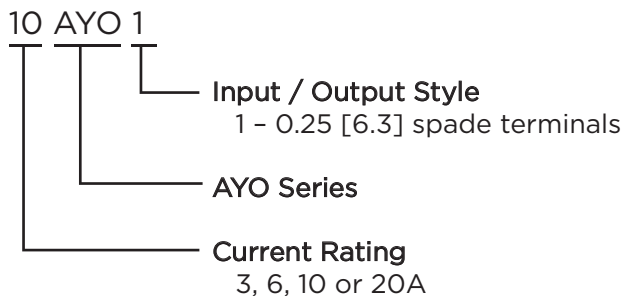
UL Recognized
CSA Certified
VDE Approved



AYO Series

- For 3-phase, four wire, WYE applications
- Filters each of the three lines plus neutral
- Good for attenuation beginning at 100kHz
- Space saving design
- Low leakage current
- Easy to connect terminals

Ordering Information



Available Part Numbers

3AYO1	6AYO1
10AYO1	20AYO1

Specifications

Maximum leakage current each Line to Ground:

	<u>3, 6, 10A</u>	<u>20A</u>
@ 120 VAC 60 Hz:	2.0 mA	3.5 mA
@ 250 VAC 50 Hz:	3.0 mA	5.5 mA

Hipot rating (one minute):

Line to Ground:	1500 VAC
Line to Line:	1450 VDC

Rated Voltage (max):

Phase to Phase:	440 VAC
Phase to Neutral / Ground:	250 VAC

Operating Frequency:

50/60 Hz

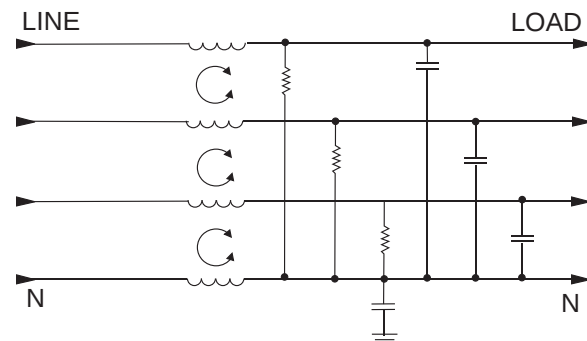
Rated Current:

3 to 20A

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



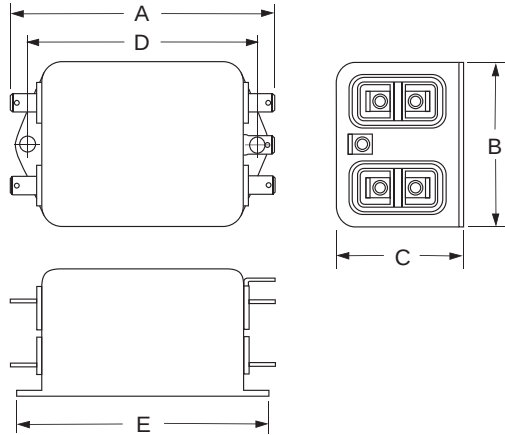
2

Three Phase Filters

Compact Low Current 3-phase WYE RFI Filters *(continued)*

AYO Series

Case Style



Typical Dimensions:

Line/Load Terminals (8): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
Mounting Holes (2): .188 [4.78] Dia.

Case Dimensions

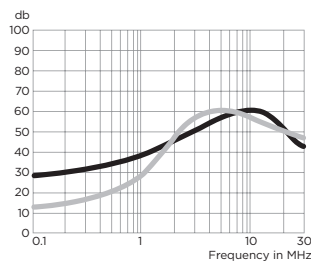
Part No.	A (max.)	B (max.)	C (max.)	D $\pm .015$ $\pm .38$	E (max.)
AYO Series	3.37 85.6	2.07 52.5	1.53 38.7	2.938 74.63	3.35 85.1

Performance Data

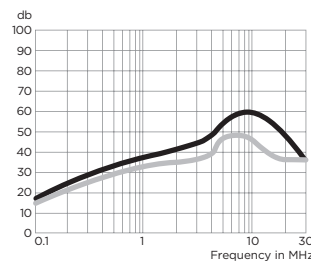
Typical Insertion Loss

Measured in closed 50 Ohm system

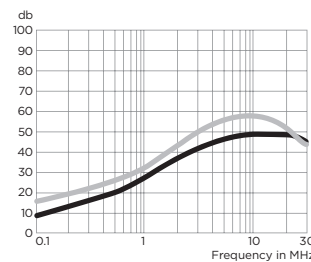
3AYO1



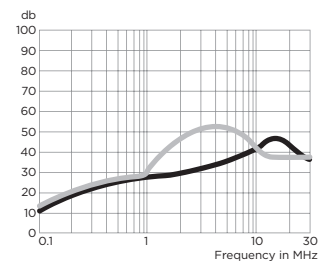
6AYO1



10AYO1



20AYO1



— 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					
	.15	.5	1	5	10	30
3A	12	23	29	33	38	35
6A	7	23	30	40	50	30
10A	-	-	5	16	28	15
20A	-	7	11	32	23	12

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency –MHz					
	.15	.5	1	5	10	30
3A	-	12	20	50	35	30
6A	10	18	24	31	28	28
10A	10	18	24	42	28	22
20A	10	18	24	42	38	23