

Compact Low Current 3-phase WYE RFI Filters

AYO Series

UL Recognized CSA Certified VDE Approved



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Three Phase Filters

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 (I₀) is calculated as follows: I₀ = I_r $\sqrt{(85-Ta)/45}$

Electrical Schematic



Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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AYO Series

Case Style



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Case Dimensions

Dart No	Α	В	С	D	Е
Part No.	(max.)	(max.)	(max.)	<u>±.015</u> ±.38	(max.)
	3.37	2.07	1.53	2.938	3.35
AYO Series	85.6	52.5	38.7	74.63	85.1

Typical Dimensions:

Line/Load Terminals (8): Ground Terminal (1): Mounting Holes (2):

8): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system







Differential Mode / Symmetrical (Line to Line)





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 Frequency – MHz					Current	Frequency –MHz							
Rating	.15	.5	1	5	10	30	Rating	.15	.5	1	5	10	30
3A	12	23	29	33	38	35	3A	-	12	20	50	35	30
6A	7	23	30	40	50	30	6A	10	18	24	31	28	28
10A	-	-	5	16	28	15	10A	10	18	24	42	28	22
20A	-	7	11	32	23	12	20A	10	18	24	42	38	23

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