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

10 AYO 1

- Input / Output Style: 1 – 0.25 [6.3] spade terminals
- AYO Series
- Current Rating: 3, 6, 10 or 20A

Available Part Numbers

3AYO1	6AYO1
10AYO1	20AYO1

Specifications

Maximum leakage current each Line to Ground:

	3, 6, 10A	20A
@ 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

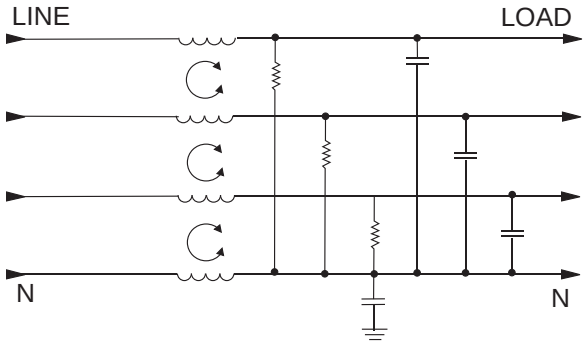
Operating Frequency: 50/60 Hz

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

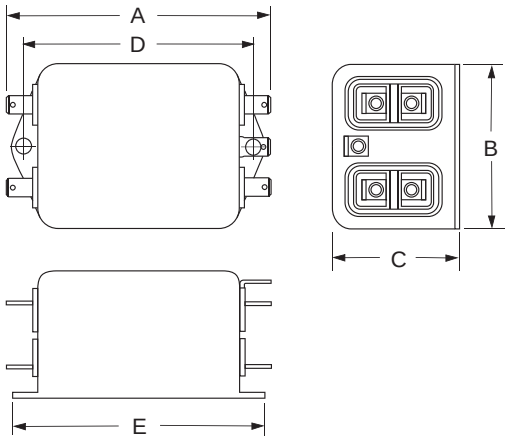
Electrical Schematic



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.

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

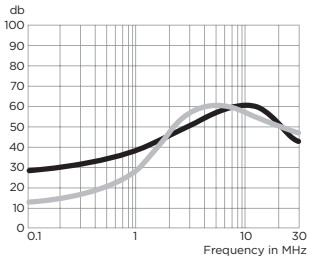
Part No.	A (max.)	B (max.)	C (max.)	D ±.015 ±.38	E (max.)
AYO Series	**3.37** *85.6*	**2.07** *52.5*	**1.53** *38.7*	**2.938** *74.63*	**3.35** *85.1*

Performance Data

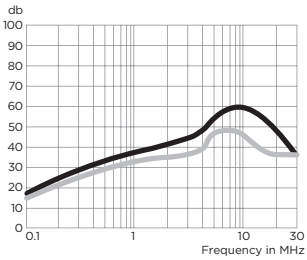
Typical Insertion Loss

Measured in closed 50 Ohm system

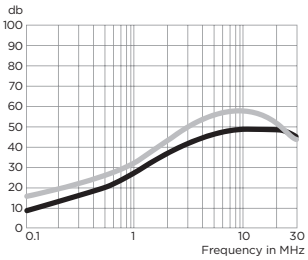
3AYO1



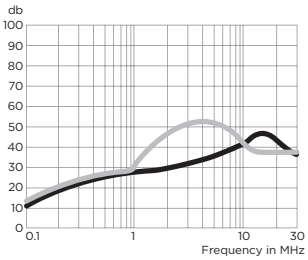
6AYO1



10AY01



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

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