₹ Tyco Electronics

Lower Current Three Phase RFI Filters

AYO Series



UL Recognized CSA Certified VDE Approved

AYO Series

The AYO series filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus neutral.

These lower current RFI filters provide filtering to industrial 3-phase applications.

Electrical Schematic



Resistor location for reference only.



AYO1



Specifications

Maximum leakage current, each line-to-ground:

•	<u>3, 6, 10A</u>	<u>20A</u>
@ 120 VAC 60 Hz:	2.0 mA	3.5mA
@ 250 VAC 50 Hz:	3.0 mA	5.5mA
Hipot rating (one minute): line-to-ground line-to-line		1500 VAC 1450 VDC
Operating frequency:		50/60 Hz
Rated voltage (max.): phase-to-phase phase-to-neutral/ground		440 VAC 250 VAC
Rated current: 3AYO1 6AYO1 10AYO1 20AYO1		3A 6A 10A 20A

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

0						
Current	Frequency-MHz					
Rating	.15	.5	1	5	10	30
ЗA	12	23	29	33	38	35
6A	7	23	30	40	50	30
10A	-	-	5	16	28	15
20A	_	7	11	32	23	12

Line-to-line in 50 ohm circuit

Current	Frequency-MHz					
Rating	.15	.5	1	5	10	30
ЗA	_	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

Revised 05-07

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. USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 Germany: 49-89-6089-0

www.corcom.com www.tycoelectronics.com

Lower Current Three Phase RFI Filters (Continued)

AYO Series

Electronics

Case Style





Case Dimensions

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

Part Numbers

3AYO1		
6AYO1		
10AYO1		
20AYO1		

Typical dimensions: Terminals: .250 [*6.35*] (9) Holes: .07 [*1.8*] Dia.(8) Slot: .07 x .16 [*1.8 x 4.1*] Mounting holes: .188 [*4.78*] Dia.(2)

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