

3-phase WYE RFI Power Line Filters for High Noise Applications

AYC Series



UL Recognized*



150AYC10B

AYC Series

- For 3-phase, four wire, WYE applications
- Very high attenuation
- Low leakage current
- Ideal for EMC troubleshooting and refurbishing in the field
- Touch safe terminals provide easy connections and prevent inadvertent contact for safety in the most demanding applications

Ordering Information

150 AYC 10 B -95

Terminal Block Option
-95 - 95mm terminal block
available on 150A only
Omit for standard terminals

Filter Type
B - Single stage

Input / Output Style
10 - Terminal block

AYC Series

Current Rating
16, 25, 36, 63, 80, 110,
150, 180 or 200A

Available Part Numbers

16AYC10B	110AYC10B
25AYC10B	150AYC10B
36AYC10B	150AYC10B-95
63AYC10B	180AYC10B
80AYC10B	200AYC10B

Specifications

Maximum leakage current each Line to Ground:

	120 VAC 60Hz	277 VAC 50Hz
16A	62 mA	106 mA
25 & 36A	68 mA	118 mA
63A	74 mA	128 mA
80, 100 & 150A	74 mA	129 mA
180, 200A	111 mA	192 mA

Hipot rating (one minute):

Line to Ground:	1850 VDC
Line to Line:	1850 VDC
Line to Neutral:	1450 VDC

Rated Voltage (max):

Phase to Phase:	480 VAC
Phase to Ground:	277 VAC

Operating Frequency:

50/60 Hz

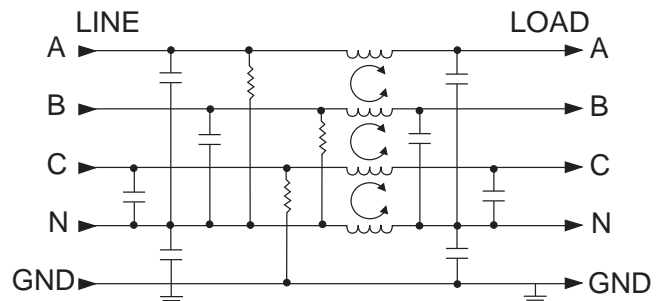
Rated Current:

16 to 200A

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



*All except 200AYC10B

3-phase WYE RFI Filters for High Noise Applications *(continued)*

AYC Series

Case Styles

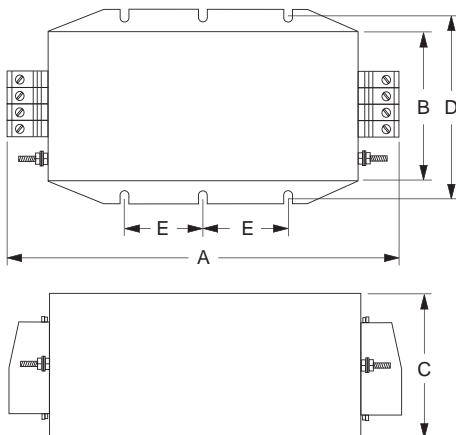
16, 25, 36, 63AYC10B



80, 110, 150AYC10B / -95



180, 200AYC10B



Case Dimensions

Part No.	A (max.)	B (max.)	C (max.)	D (max.)	E ± 0.078 $\pm .2$
16AYC10B	6.69 170.0	4.37 111.0	2.56 65.0	4.92 125.0	2.76 70.0
25AYC10B	9.96 246.0	5.08 129.0	2.52 64.0	5.71 145.0	4.53 115.0
36AYC10B	10.35 263.0	5.08 129.0	2.52 64.0	5.71 145.0	4.53 115.0
63AYC10B	10.98 279.0	5.08 129.0	2.95 75.0	5.71 145.0	4.53 115.0
80, 110 & 150AYC10B	12.09 307.0	5.55 141.0	5.55 141.0	6.10 155.0	4.53 115.0
150AYC10B-95	12.59 320.0	5.55 141.0	5.55 141.0	6.10 155.0	4.53 115.0
180AYC10B	15.71	5.55	5.55	6.10	3.25
200AYC10B	399.0	141.0	141.0	155.0	82.5

Terminals

Part No.	Terminal	Size	Torque max. lbf-in [N·m]
16AYC10B	Ground	M5	26.58 [3.0]
	Line / Load	4mm ² terminal block	7.08 [0.8]
25AYC10B	Ground	M5	26.58 [3.0]
	Line / Load	6mm ² terminal block	15.93 [7.8]
36AYC10B	Ground	M5	26.58 [3.0]
	Line / Load	10mm ² terminal block	15.93 [7.8]
63AYC10B	Ground	M6	53.1 [6.0]
	Line / Load	16mm ² terminal block	20.35 [2.3]
80, 110, 150AYC10B	Ground	M10	177.0 [20.0]
	Line / Load	50mm ² terminal block	70.80 [8.0]
150AYC10B-95 180AYC10B 200AYC10B	Ground	M10	177.0 [20.0]
	Line / Load	95mm ² terminal block	177.0 [20.0]

3-phase WYE RFI Filters for High Noise Applications *(continued)*

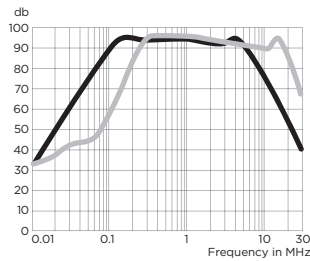
AYC Series

Performance Data

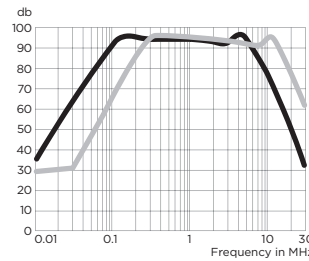
Typical Insertion Loss

Measured in closed 50 Ohm system

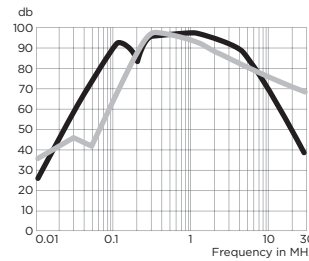
16AYC10B



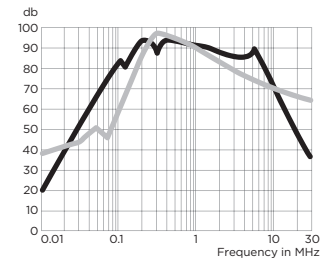
25AYC10B



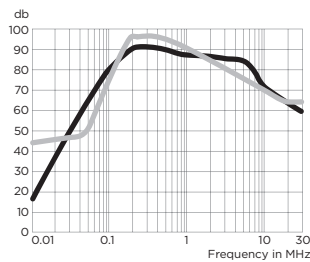
36AYC10B



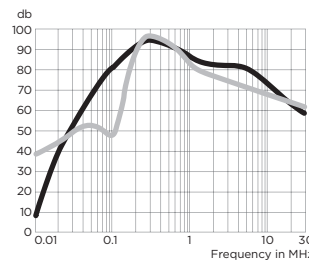
63AYC10B



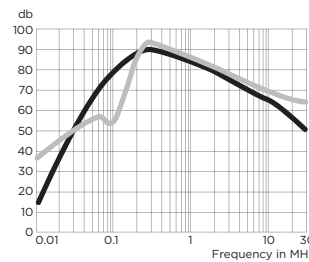
80AYC10B



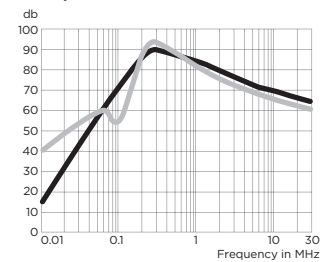
110AYC10B



150AYC10B



180, 200AYC10B



— 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)

Part No.	Frequency –MHz							
	.01	.05	.1	.5	1	5	10	30
16AYC10B	23	66	82	88	82	79	55	21
25AYC10B	26	68	83	93	88	68	45	4
36AYC10B	18	61	78	96	91	71	49	7
63AYC10B	11	57	72	90	86	68	44	4
80AYC10B	10	57	75	84	77	75	62	45
110AYC10B	10	51	60	88	84	74	50	12
150AYC10B	-	50	57	82	79	75	51	7
150AYC10B-95	1	51	55	85	82	84	51	11
180, 200AYC10B	3	53	55	97	89	81	56	20

Differential Mode / Symmetrical (Line to Line)

Part No.	Frequency –MHz							
	.01	.05	.1	.5	1	5	10	30
16AYC10B	21	32	54	90	86	73	72	47
25AYC10B	23	33	60	100	95	87	70	38
36AYC10B	25	37	51	94	87	69	58	17
63AYC10B	27	45	41	84	77	63	61	43
80AYC10B	37	42	67	87	80	66	60	50
110AYC10B	27	35	39	75	72	51	44	31
150AYC10B	28	37	42	74	67	52	45	30
150AYC10B-95	28	40	42	73	66	51	44	31
180, 200AYC10B	30	41	50	70	64	49	42	26