

Three Phase RFI Power Line Filters for High Noise Applications

AYC Series



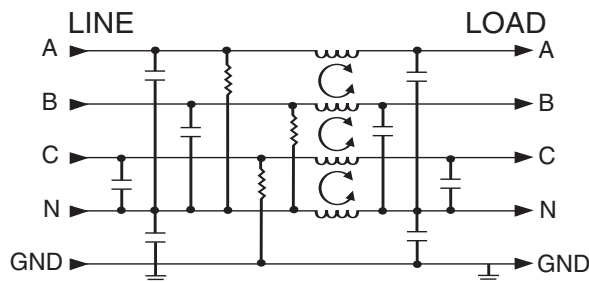
UL Recognized

AYC Series

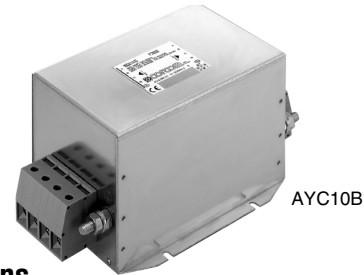
The AYC series filters are designed for 3-phase, four-wire, WYE wiring applications. These cost-effective filters help better protect electronic equipment in industrial applications.

The series offers filtering up to 180 amps maximum and is used in 3-phase, noisy industrial applications such as frequency converters. The AYC series is designed to comply with International Standards including EN133200 and UL 1283.

Electrical Schematic



Resistor location for reference only.



Specifications

Maximum leakage current, each line-to-ground

	120 VAC 60Hz:	250 VAC 50Hz:
16A	62mA	106mA
25/36A	68mA	118mA
63	74mA	128mA
80/110/150A	74mA	129mA
180A	111mA	192mA

Hipot rating (one minute):

line-to-ground	1850 VDC
line-to-line	1850 VDC
line-to-neutral	1450 VDC

Operating frequency:

50/60 Hz

Operating voltage (max.):

480 VAC

Rated current:

16AYC10B	16A	80AYC10B	80A
25AYC10B	25A	110AYC10B	110A
36AYC10B	36A	150AYC10B	150A
63AYC10B	63A	180AYC10B	180A

Typical insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz							
	.01	.05	.1	.5	1	5	10	30
16A	23	66	82	88	82	79	55	21
25A	26	68	83	93	88	68	45	4
36A	18	61	78	96	91	71	49	7
63A	11	57	72	90	86	68	44	4
110A	10	51	60	88	84	74	50	12
150A*	0	50	57	82	79	75	51	7
150A	1	51	55	85	82	84	51	11
180A	3	53	55	97	89	81	56	20

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz							
	.01	.05	.1	.5	1	5	10	30
16A	21	32	54	90	86	73	72	47
25A	23	33	60	100	95	87	70	38
36A	25	37	51	94	87	69	58	17
63A	27	45	41	84	77	63	61	43
110A	27	35	39	75	72	51	44	31
150A*	28	37	42	74	67	52	45	30
150A	28	40	42	73	66	51	44	31
180A	30	41	50	70	64	49	42	26

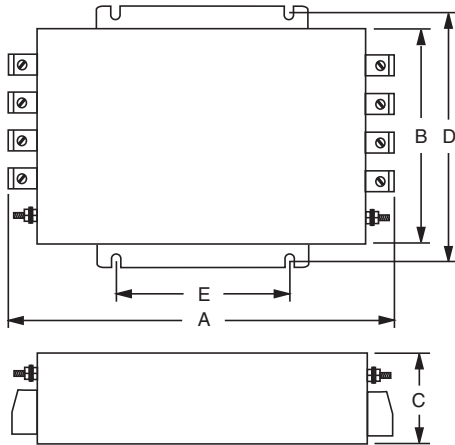
*150AYC10B-95 only

Three Phase RFI Power Line Filters for High Noise Applications (Continued)

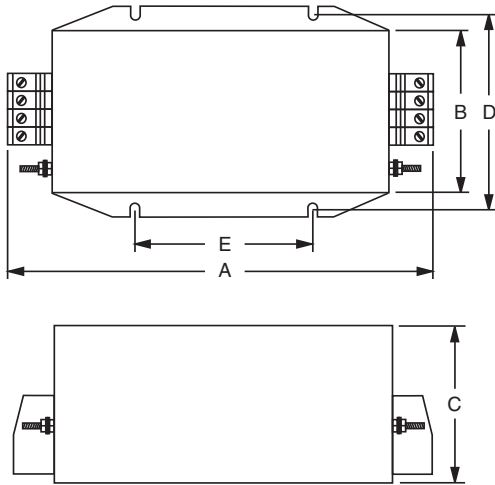
AYC Series

Case Styles

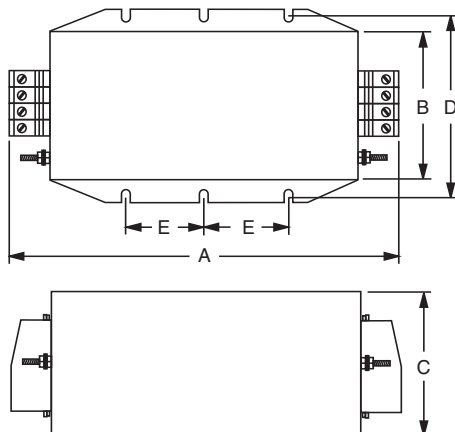
16, 25, 36, 63 AYC10B



80, 110, 150AYC10B / -95



180 AYC10B



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D (max)	E $\pm .078$ ± 0.2
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	10.89 279.0	5.08 129.0	2.52 64.0	5.71 145.0	4.53 115.0
80/110/150 AYC10B	12.09 307.0	5.55 141.0	5.55 141.0	6.10 155.0	4.53 115.0
180AYC10B	15.71 399.0	5.55 141.0	5.55 141.0	6.10 155.0	3.25 82.5

Ground Terminals

	Type (qty.)	Torque
16AYC10B		
Ground Terminals	M5 (2)	51 - 55 in. lb.
Phoenix Contacts	VDFK4 (8)	5.3 (min.)
Accepts 12 AWG stranded wire. Strip length 0.315		
25AYC10B		
Ground Terminals	M5 (2)	51 - 55 in. lb.
Phoenix Contacts	VDFK6 (8)	13.3 (min.)
Accepts 10 AWG stranded wire. Strip length 0.354		
36AYC10B		
Ground Terminals	M5 (2)	54 - 58 in. lb.
Phoenix Contacts	HDFK10 (8)	13.3 (min.)
Accepts 8 AWG stranded wire. Strip length 0.433		
63AYC10B		
Ground Terminals	M6 (2)	54 - 58 in. lb.
Phoenix Contacts	HDFK16 (8)	17.7 (min.)
Accepts 6 AWG stranded wire. Strip length 0.630		
80/110/150AYC10B		
Ground Terminals	M10 (2)	56 - 60 in. lb.
Phoenix Contacts	HDFK50 (8)	53.1 (min.)
Accepts 1 AWG stranded wire. Strip length 0.945		
150AYC10B-95		
Ground Terminals	M10 (2)	56 - 60 in. lb.
Phoenix Contacts	HDFK95 (8)	132 (min.)
Accepts 0 AWG stranded wire. Strip length 1.063		

Part Numbers

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