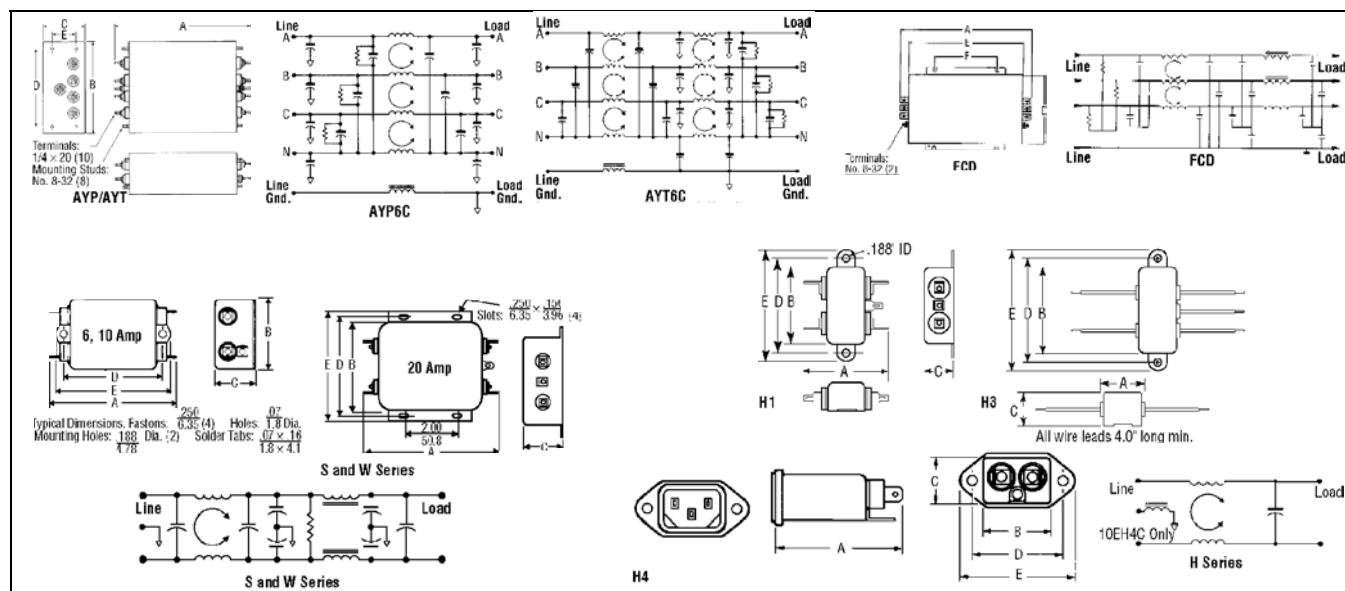


## Power Line Filters

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### A Series 3-Phase RFI Power Line Filters



Case Dimensions — In. (mm)

Mfr.'s Type	A* Max.	B Max.	C Max.	D ±.030 (±.38)	E ±.015 (±.38)	Stock No.		Mfr.'s Type	Amps	EACH	
						1-9	10-24			1-9	10-24
20AYP6C	8.82	5.57	2.56	4.616	1.50	851-0700	20AYP6C	20	310.17	271.40	
	(224.0)	(141.5)	(65.0)	(117.2)	(38.1)	851-0702	30AYP6C	30	318.33	278.54	
30AYP6C	8.82	5.57	2.56	4.616	1.50	851-0704	45AYP6C	45	391.80	342.82	
	(224.0)	(141.5)	(65.0)	(117.2)	(38.1)	851-0706	60AYP6C	60	432.60	378.52	
45AYP6C	9.43	6.92	4.82	5.950	3.75	851-0750	20AYT6C	20	408.09	357.08	
	(239.5)	(175.8)	(122.4)	(151.1)	(95.3)	851-0752	30AYT6C	30	416.25	364.22	
60AYP6C	9.43	6.92	4.82	5.950	3.75	851-0754	45AYT6C	45	509.33	445.66	
	(239.5)	(175.8)	(122.4)	(151.1)	(95.3)	851-0756	60AYT6C	60	629.05	550.42	

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- Effective For Both Balanced and Unbalanced Three Phase Loads
- Ground Choke Included
- Made to IEC 380 Specifications
- Shielded Construction
- Both Common Mode and Differential Mode Suppression From 50 kHz to 30 MHz

The A series 3-phase filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus the neutral and ground line. These standard, high performance RFI power line filters may be used on a 3-phase DELTA system. The dual stage AYT provides higher performance while the single stage AYP is good for lower noise environments. The mounting brackets and the end bell kits are sold separately. The end bell mounting kit is available in two sizes. Maximum leakage current, each line-to-ground at 120 VAC/60 Hz is 1.4 mA and at 250 VAC/60 Hz is 3.4 mA. Phase-to-phase rated voltage is 440 VAC. Phase to neutral/ground is 250 VAC.

\*For end bell covering terminals and connections, add the following: 20 A and 30 A — 5.57 (141.48); 45 A and 60 A — 6.45 (163.83).

### FCD External Power Line Filters



The FCD filters provide three phase filtering for frequency inverters and variable speed motor drives. Designed for very noisy Delta applications, they attenuate conducted interference at low and high frequency ranges and protect programmable logic controllers from RF noise on the AC power line. These filters perform best when installed on the line side of the motor drive. The FCD filters prevent noise from returning to the line enabling equipment to meet strict European regulations on RFI. Suited for field wiring applications, these filters are ideal for EMC troubleshooting and field refurbishing. The FCD filters feature side flanges for easy mounting and DIN type terminals which eliminate live metal parts allowing safe and easy connections. They can also be sold as an accessory item to motor drives sold in Europe. Maximum leakage current, each line-to-ground at 120 VAC/60 Hz is 5.7 mA and at 250 VAC/50 Hz is 9.8 mA. They are rated at 440 VAC phase-to-phase and 250 VAC phase-to-neutral/ground.

Stock No.	Mfr.'s Type	Amps	Dimensions — In. (mm)					EACH		
			A Max.	B Max.	C Max.	D	E Max.	F	1-9	10-24
851-0200	25FCD10	25	9.69 (246.13)	6.26 (159.00)	2.52 (64.00)	5.70 (144.78)	8.43 (214.12)	4.528 (115.01)	229.79	204.87
851-0202	36FCD10	36	9.69 (246.13)	6.26 (159.00)	2.52 (64.00)	5.70 (144.78)	8.43 (214.12)	4.528 (115.01)	229.79	204.87
851-0204	50FCD10	50	9.69 (246.13)	6.26 (159.00)	2.52 (64.00)	5.70 (144.78)	8.43 (214.12)	4.528 (115.01)	258.23	236.38

### S and W Series



#### 6 to 20 Amps; 120/250 Volts, 50-60 Hz

The S and W series filters will protect equipment from malfunctions due to conducted interference coming into the equipment from the line, especially line-to-line noise and transients. In addition, they combine line-to-ground interference rejection filters with additional circuitry to reduce line-to-line transients. They are also effective to control emissions in equipment using SCR and T-L circuits, for compliance with FCC Part 15, Subpart J, and VDE 0871, Level A, down 150 KHz. The W series provides an N=4 line-to-ground impedance for common mode and an N=5 impedance for line-to-line differential mode interference. The two-stage construction provides excellent suppression at high frequency. The S series is an N=2 line-to-ground impedance common mode and an N=3 impedance for line-to-line differential mode interference. The suppression allows most equipment, including switchmode power supplies, to meet FCC specifications for conducted emissions. Additional max. line amps available as special order items.

Stock No.	Mfr.'s Type	Dimensions — Inches (mm)					Max. Line Amp	EACH		
		A	B	C	D	E		1-9	10-24	
851-0488	6VS1	3.86 (98.00)	2.080 (52.80)	1.53 (38.86)	2.938 (74.63)	3.34 (84.80)	6	29.09	24.83	
851-0490	10VS1	3.86 (98.00)	2.080 (52.80)	1.53 (38.86)	2.938 (74.63)	3.34 (84.80)	10	33.91	28.95	
851-0492	20VS1	5.23 (132.80)	3.380 (85.90)	1.53 (38.86)	3.750 (95.23)	4.20 (106.70)	20	74.88	64.01	
851-0494	20VS6	5.34 (135.64)	3.370 (85.73)	1.53 (38.86)	3.760 (95.50)	4.20 (106.55)	20	75.30	64.28	
851-0419	6WV1	3.86 (98.00)	2.080 (52.80)	1.53 (38.86)	2.938 (74.63)	3.34 (84.80)	6	34.29	27.20	
851-0420	10WV1	3.86 (98.00)	2.080 (52.80)	1.53 (38.86)	2.938 (74.63)	3.34 (84.80)	10	39.34	35.11	
851-0421	20WV1	5.23 (132.80)	3.380 (85.90)	1.53 (38.86)	3.750 (95.23)	4.20 (106.70)	20	80.18	71.55	
851-0413	20WV6	5.34 (135.64)	3.375 (85.73)	1.53 (38.86)	3.760 (95.50)	4.20 (106.55)	20	80.47	71.81	

### H Series Filters



#### 3 to 10 Amps; 120/250 Volts AC, 50-60 Hz

All H Series filters are for use in both patient care equipment and nonpatient equipment and meet UL 544 requirements. In addition, the 10EHAC incorporates a separate ground circuit inductor to isolate the equipment chassis from power line ground at RF frequencies. **Maximum Leakage Current (Line-To-Ground):** 2 μA at 120 VAC, 60 Hz or 5 μA at 250 VAC, 50 Hz. **Hipot Rating (1 Minute):** Line-to-ground — 1500 VAC; Line-to-line — 1450 VDC. **Operating Frequency:** 50/60 Hz. **Rated Voltage:** 120/250 VAC. Ask about low cost versions.

Stock No.	Mfr.'s Type†	Dimensions — Inches (mm)					Max. Line Amp	EACH			
		A	B	C	D	E		1-24	25-49	50-99	100-499
851-0430	3EH1	2.25 (57.2)	1.82 (46.1)	0.66 (16.7)	2.125 (53.98)	2.53 (64.2)	3	12.99	11.25	8.92	8.12
851-0434	6EH1	2.25 (57.2)	1.82 (46.1)	0.66 (16.7)	2.125 (53.98)	2.53 (64.2)	6	13.26	11.60	10.31	9.28
851-0436	6EH3	0.96 (24.4)	1.82 (46.1)	0.66 (16.7)	2.125 (53.98)	2.53 (64.2)	6	14.25	12.85	11.42	10.28
851-0438	10EH1	2.25 (57.2)	1.82 (46.1)	0.66 (16.7)	2.125 (53.98)	2.53 (64.2)	10	13.70	11.99	10.65	9.59
851-0440	10EH3	0.96 (24.4)	1.82 (46.1)	0.66 (16.7)	2.125 (53.98)	2.53 (64.2)	10	14.48	12.80	11.38	10.24
851-0442	10EH4	2.62 (66.5)	1.19 (30.2)	0.81 (20.6)	1.575 (40.01)	1.98 (50.3)	10	16.40	13.98	11.48	10.44
851-0444	10EH4C	2.62 (66.5)	1.19 (30.2)	0.81 (20.6)	1.575 (40.01)	1.98 (50.3)	10	20.20	17		