

The AIM Filter uses **A**daptive **I**njection **M**ode current control.

The AIM Filter is the original Active Filter and is still the only one that uses real time feedback and thus achieves the lowest harmonic current possible.

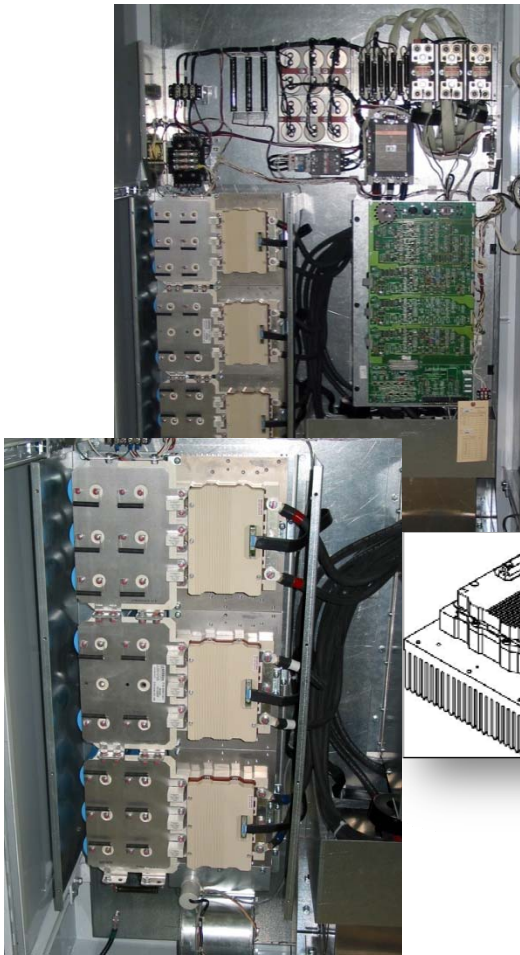
An AIM Filter offers a proven technology to isolate harmonic current and protect your equipment from damage and miss operation due to harmonic voltage distortion.

The Filters are rated in Amps of Harmonic Cancellation and range from 25 Amps to 300 Amps. Filters can be paralleled for larger loads.

The product comes in specific three phase European and North American voltages from 208 VAC to 600 VAC, 60HZ and 50HZ. Three and four wire versions are available in most models.

These units are available in chassis or NEMA 1 enclosures. Consult the Factory for special enclosure requirements.





Using SKiiP technology the AIM 300/270 amp Filters provide the latest advances in reliable power systems.

The entire power train is supplied from SEMIKRON as a complete integrated, intelligent Power System. With integrated gate driver electronics, matched IGBTs and an optimized heat sink and conservative rating unsurpassed reliability is guaranteed.

Though the SKiiP has a voltage class of 1200VAC, the patented Current Pump of the AIM technology subjects the Power Train to only 280 VAC and a DC Bus of 385 VDC. This reduces the heat generated and improves the operating efficiency.

The SKiiP based AIM also achieves greater reliability, by using fewer components in its power section. A single, three phase series inductor, and only two. Three phase capacitors are used to achieve the same high standard of performance of the smaller AIM systems.

Technical Data 60HZ, 3 Phase, 3 Wire Models

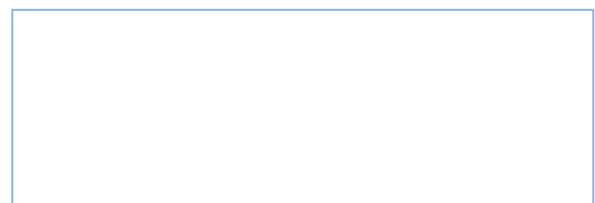
Model	Harmonic Cancellation A RMS	Voltage VAC	Freq. HZ	Electronic Power Factor Correction		Total Current A RMS	Power @ Full Load kW	NEMA 1 Enclosure Dimensions Inches H x W x D	Weight lbs
				kVAR	A RMS				
3A025B6-AE2MX	25	208	60	3.5	10	27	0.5	31 x 16 x 14	130
3A025G6-AE2MX	25	480	60	14	17	30	0.5	31 x 16 x 14	130
3A025H6-AE2MX	22.5	600	60	20	19	29	0.5	31 x 16 x 14	130
3A050B6-AE2MX	50	208	60	6.9	19	54	0.9	49 x 16 x 14	190
3A050G6-AE2MX	50	480	60	27	33	60	1.1	49 x 16 x 14	190
3A050H6-AE2MX	45	600	60	39	38	59	1.1	49 x 16 x 14	190
3A100B6-AE2MX	100	208	60	14	38	107	1.9	83 x 24 x 20	380
3A100G6-AE2MX	100	480	60	54	65	119	2.2	83 x 24 x 20	380
3A100H6-AE2MX	90	600	60	78	75	117	2.2	83 x 24 x 20	380
3A150B6-AE2MX	150	208	60	21	57	160	2.9	83 x 32 x 20	490
3A150G6-AE2MX	150	480	60	81	97	178	3.3	83 x 32 x 20	490
3A150H6-AE2MX	135	600	60	117	112	175	3.3	83 x 32 x 20	490
3A200B6-AE2MX	200	208	60	28	76	214	3.8	87 x 48 x 20	600
3A200G6-AE2MX	200	480	60	108	130	238	4.4	87 x 48 x 20	600
3A200H6-AE2MX	180	600	60	156	150	234	4.4	83 x 48 x 20	600
3A300G6-AE2MX	300	480	60	162	195	358	6.6	87 x 48 x 20	700
3A300H6-AE2MX	270	600	60	234	225	351	6.6	87 x 48 x 20	700

General Specifications

Line Voltage	+6%, -14% Steady State +11%, -19% for 20 Min. Transient IEEE 587, Class B
Line Frequency	+/- 5%
Walk-in Time	6 Sec. Maximum
Temperature	0° to 40° C Operating -30° to 50° C Storage
Humidity	to 95% non-condensing
Altitude	to 1500 meters

Chassis Physical Data (Panel Mounted)

Model	H x W x D	lbs
3A100xx-ACHXX	74.65 x 19.65 x 16.00	260
3A150xx-ACHXX	74.65 x 27.50 x 16.00	340
3A200xx-ACHXX	74.65 x 43.25 x 16.00	405
3A300xx-ACHXX	74.65 x 43.25 x 16.00	550



TRUE HARMONIC CURRENT CANCELLATION

AIM ACTIVE HARMONIC FILTER

MODEL 3A300H6 AE2 AIM FILTER 600 VAC 270 AMPS CANCELLATION SITE DATA DEC.2008

START-UP DATA

AIM OFF

Single Phase Readings - 12/04/08 16:57:40

STREET2

PH B

OFF

		Voltage	Current
Frequency	59.81 RMS	350.3	576.9
Power	Peak	506.6	828
KW	190.1 DC Offset	0	-1.9
KVA	202.1 Crest	1.45	1.44
KVAR	42.7 THD Rms	4.44	25.95
Peak KW	412.6 THD Fund	4.45	26.87
Phase	13° lag HRMS	15.6	149.5
Total PF	0.94 KFactor		3.61
DPF	0.98		

Single Phase Readings - 12/04/08 16:57:40

STREET2

PH B

OFF

Harmonics	Freq.	1 Phase			1 Phase			1 Phase		
		V Mag	%V RMS	V ϕ°	I Mag	%I RMS	I ϕ°	Power (KW)		
DC	0	0	0	0	1.9	0.33	0	0	0	
1	59.81	349.78	99.85	0	556.6	96.48	-13	189.89	0	
2	119.62	0.38	0.11	53	0.6	0.11	109	0	0	
3	179.42	0.22	0.06	-53	2.1	0.36	160	-0.06	0	
4	239.23	0.22	0.06	136	0.9	0.15	-141	0	0	
5	299.04	11.47	3.27	10	137.1	23.76	103	-0.13	0	
6	358.85	0.13	0.04	135	0.6	0.11	176	0	0	
7	418.65	4.91	1.4	41	43.5	7.54	132	-0.06	0	
8	478.46	0.06	0.02	-146	0.8	0.13	-133	0	0	
9	538.27	0.09	0.03	47	1.1	0.2	96	0	0	
10	598.08	0.06	0.02	-140	0.5	0.09	-34	0	0	
11	657.89	5.41	1.54	124	30.7	5.32	-146	0	0	
12	717.69	0.03	0.01	-175	0.5	0.09	-49	0	0	
13	777.5	4.38	1.25	127	20.3	3.52	-146	0	0	
14	837.31	0.09	0.03	95	0.4	0.08	-34	0	0	
15	897.12	0.19	0.05	77	0.6	0.1	-175	0	0	
16	956.92	0.03	0.01	-101	0.3	0.04	50	0	0	
17	1016.73	3.06	0.87	-155	11.1	1.93	-60	-0.06	0	
18	1076.54	0.06	0.02	-65	0.3	0.05	23	0	0	
19	1136.35	3.16	0.9	-148	10.1	1.76	-58	0	0	
20	1196.16	0.09	0.03	-95	0.4	0.07	35	0	0	
21	1255.96	0.19	0.05	122	0.6	0.11	-99	0	0	
22	1315.77	0.09	0.03	49	0.3	0.04	60	0	0	
23	1375.58	2.06	0.59	-88	5.8	1	6	-0.06	0	
24	1435.39	0.09	0.03	70	0.2	0.03	102	0	0	
25	1495.2	2.16	0.62	-77	5.3	0.91	16	-0.06	0	
26	1555	0.09	0.03	32	0.2	0.03	89	0	0	
27	1614.81	0.25	0.07	-147	0.4	0.08	-48	0	0	
28	1674.62	0.06	0.02	169	0.3	0.05	-146	0	0	
29	1734.43	2.25	0.64	-27	4.7	0.81	67	-0.06	0	
30	1794.23	0.09	0.03	71	0.2	0.03	-180	0	0	
31	1854.04	2.16	0.62	-16	4.1	0.7	72	0	0	
TOT			4.44		149.5	26.0				

AIM ON

Single Phase Readings - 12/04/08 16:57:30

STREET2

PH B

ON

		Voltage	Current
Frequency	59.96 RMS	353.9	545.6
Power	Peak	501.8	768
KW	189.5 DC Offset	-0.4	-3.7
KVA	193.1 Crest	1.42	1.41
KVAR	37.7 THD Rms	0.9	2.21
Peak KW	383 THD Fund	0.9	2.21
Phase	11° lead HRMS	3.0	12.1
Total PF	0.98 KFactor		1.11
DPF	0.98		

Single Phase Readings - 12/04/08 16:57:30

STREET2

PH B

ON

Harmonics	Freq.	1 Phase			1 Phase			1 Phase		
		V Mag	%V RMS	V ϕ°	I Mag	%I RMS	I ϕ°	Power (KW)		
DC	0	0.38	0.11	0	3.7	0.7	0	0		
1	59.96	353.88	100	0	545.6	100.0	11	189.31		
2	119.92	0.13	0.04	158	1.0	0.2	-71	0		
3	179.88	0.19	0.05	-34	1.5	0.3	20	0		
4	239.85	0	0	-9	0.1	0.0	-165	0		
5	299.81	0.53	0.15	149	5.2	1.0	-92	-0.06		
6	359.77	0.06	0.02	160	0.3	0.1	-99	0		
7	419.73	0.72	0.2	-158	5.5	1.0	-75	0		
8	479.69	0.06	0.02	-155	0.3	0.1	-178	0		
9	539.65	0.06	0.02	110	0.3	0.1	142	0		
10	599.62	0.06	0.02	-114	0.2	0.0	-81	0		
11	659.58	0.94	0.26	-124	3.9	0.7	-44	0		
12	719.54	0.06	0.02	-86	0.2	0.0	-95	0		
13	779.5	0.84	0.24	-141	3.8	0.7	-55	0		
14	839.46	0	0	134	0.0	0.0	13	0		
15	899.42	0.31	0.09	110	1.1	0.2	180	0		
16	959.38	0.06	0.02	-58	0.1	0.0	141	0		
17	1019.35	1.13	0.32	-2	4.2	0.8	88	0		
18	1079.31	0.06	0.02	-168	0.0	0.0	-87	0		
19	1139.27	0.31	0.09	107	1.2	0.2	160	0		
20	1199.23	0.06	0.02	-62	0.1	0.0	0	0		
21	1259.19	0.31	0.09	-51	0.8	0.2	16	0		
22	1319.15	0.03	0.01	-135	0.1	0.0	-7	0		
23	1379.12	1.66	0.47	51	4.6	0.9	140	0		
24	1439.08	0.03	0.01	-10	0.2	0.0	36	0		
25	1499.04	1.03	0.29	61	2.7	0.5	151	0		
26	1559	0.06	0.02	-119	0.2	0.0	-20	0		
27	1618.96	0.25	0.07	-30	0.3	0.1	58	0		
28	1678.92	0.06	0.02	-57	0.1	0.0	96	0		
29	1738.88	0.63	0.18	86	1.5	0.3	180	0		
30	1798.85	0.06	0.02	-58	0.2	0.0	39	0		
31	1858.81	0.97	0.27	94	1.9	0.4	-176	0		
TOT			0.86		12.1	2.2				

