

Reactors & Filters

Line Reactors

Line reactors, also referred to as chokes, are passive-power conditioning devices. Reactors are most often applied to correct or prevent power-line problems inherent in ASD applications. When applied to the input of an adjustable speed drive, the line reactor is intended to protect the input of the drive from power-line problems or vice versa.

Applying line reactors is simple. There are two factors to consider when selecting the amperage and percent impedance for an application. For amperage, the line reactor must meet or exceed the current flow requirements of the application. The percent impedance indicates the expected voltage drop across the reactor at full load. For instance, if the input voltage is 460 VAC a 5% impedance line reactor is applied, a 13.86 volt drop $[(460 \times .05)/1.73]$ will occur with a resultant 466 VAC output.

Typical Applications

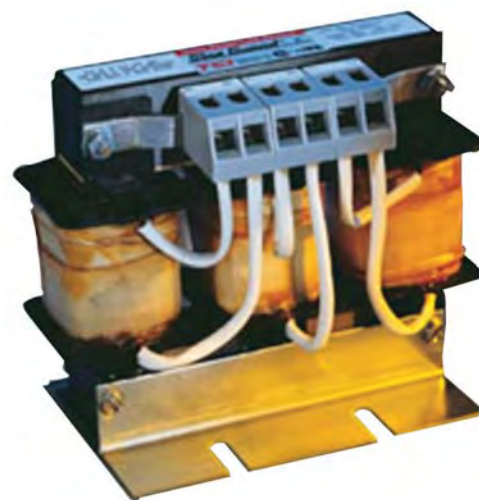
Input

- Reducing Reflected Harmonics to the Power-line
- High Ratios Between Point of Common Coupling (PCC) ASD's Power Capacity
- Example: A pad-mounted transformer has a capacity of 1000 kVA, the ASD has a capacity of 11 kVA (10 HP) for a ratio of 90:1 (stiff line). Toshiba suggests that a line reactor be used where the ratio is greater than 20:1

Nuisance trips due to line voltage spikes can be minimized, as the line reactor will reduce the magnitude duration of the transients.

Output

- Adding Inductance to a Low Impedance Motor
- Excessively Long Motor Lead-lengths Must Be Addressed with a Long Lead-length Filter



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230 V, 3% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
5	0.5	202311	3.63	4.45	1.78	1.4	\$130
5.5	1	202312	3.63	4.45	1.78	1.2	\$145
10	2	202313	3.63	4.45	1.78	1.3	\$160
12	3	202314	4.44	4.25	2.64	3	\$180
19	5	202315	5	6	4	8	\$265
25	7.5	202316	5	6	4	8	\$320
34	10	202317	5.75	7.2	4.25	12	\$330
48	15	202318	5.75	7.2	4.25	12	\$405
62	20	202319	5.75	7.2	4.25	12	\$515
80	25	202320	5.75	7.2	5	15	\$565
100	30	202321	7	9	7	30	\$700
118	40	202322	7	9	7	30	\$725
152	50	202323	7	9	7	30	\$850
180	60	202324	9	11	7	45	\$935
211	75	202325	9	11	7	50	\$1,010
280	100	202326	9	11	7	50	\$1,130

230 V, 3% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
5	0.5	202327	12.25	12.5	6.75	11.8	\$320
5.5	1	202328	12.25	12.5	6.75	11.6	\$340
10	2	202329	12.25	12.5	6.75	11.7	\$355
12	3	202330	12.25	12.5	6.75	13.4	\$375
19	5	202331	12.25	12.5	6.75	18.4	\$590
25	7.5	202332	12.25	12.5	6.75	18.4	\$645
34	10	202333	12.25	12.5	6.75	22.4	\$655
48	15	202334	12.25	12.5	6.75	22.4	\$730
62	20	202335	12.25	12.5	6.75	22.4	\$835
80	25	202336	12.25	12.5	6.75	25.4	\$885
100	30	202337	19.13	15.43	15.43	67	\$1,020
118	40	202338	19.13	15.43	15.43	67	\$1,350
152	50	202339	19.13	15.43	15.43	67	\$1,470
180	60	202340	22.12	20.43	24.37	112	\$2,080
211	75	202341	22.12	20.43	24.37	116	\$2,155
280	100	202342	22.12	20.43	24.37	116	\$2,270

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230 V, 3% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
5	0.5	202343	11.45	10.31	12	16.4	\$590
5.5	1	202344	11.45	10.31	12	16.2	\$610
10	2	202345	11.45	10.31	12	16.3	\$625
12	3	202346	11.45	17.8	12	18	\$645
19	5	202347	11.5	10	12	23	\$740
25	7.5	202348	11.5	10	12	23	\$800
34	10	202349	11.5	10	12	27	\$810
48	15	202350	11.5	10	12	27	\$890
62	20	202351	11.5	10	12	27	\$995
80	25	202352	11.5	10	12	25.4	\$1,125
100	30	202353	19.18	15.62	19.5	68	\$1,355
118	40	202354	19.18	15.62	19.5	68	\$1,575
152	50	202355	19.18	15.62	19.5	68	\$1,715
180	60	202356	22.15	20.62	28.5	116	\$2,365
211	75	202357	22.15	20.62	28.5	120	\$2,455
280	100	202358	22.15	20.62	28.5	120	\$2,575

230 V, 5% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
3.4	0.5	202359	3.63	4.45	1.78	1.4	\$130
5	1	202360	3.63	4.45	1.78	1.2	\$150
10	2	202361	3.63	4.45	1.78	1.5	\$170
11	3	202362	4.44	4.25	2.64	2.6	\$190
17	5	202363	5	6	4	8	\$280
26	7.5	202364	5	6	4	8	\$340
31	10	202365	5.75	7	4.25	12	\$375
47	15	202366	5.75	7.2	4.25	12	\$445
62	20	202367	5.75	7.5	5	15	\$580
75	25	202368	7	9	6	30	\$655
92	30	202369	7	9	7	30	\$880
114	40	202370	7	9	7	30	\$990
143	50	202371	9	11	7	38	\$1,240
169	60	202372	9	11	7	45	\$1,330
220	75	202373	9	11	7	50	\$1,405
275	100	202374	9	11	7	50	\$1,795

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Plus Pack

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230 V, 5% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
3.4	0.5	202375	12.25	12.5	6.75	11.8	\$325
5	1	202376	12.25	12.5	6.75	11.6	\$340
10	2	202377	12.25	12.5	6.75	11.9	\$360
11	3	202378	12.25	12.5	6.75	13	\$385
17	5	202379	12.25	12.5	6.75	18.4	\$600
26	7.5	202380	12.25	12.5	6.75	18.4	\$665
31	10	202381	12.25	12.5	6.75	22.4	\$695
47	15	202382	12.25	12.5	6.75	22.4	\$770
62	20	202383	12.25	12.5	6.75	25.4	\$905
75	25	202384	19.13	15.43	15.43	67	\$1,275
92	30	202385	19.13	15.43	15.43	67	\$1,335
114	40	202386	19.13	15.43	15.43	67	\$1,610
143	50	202387	19.13	15.43	15.43	75	\$1,860
169	60	202388	19.13	15.43	15.43	82	\$1,955
220	75	202389	22.12	20.43	24.37	116	\$2,550
275	100	202390	22.12	20.43	24.37	116	\$2,940

230 V, 5% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
3.4	0.5	202391	11.45	10.31	12	16.4	\$595
5	1	202392	11.45	10.31	12	16.2	\$610
10	2	202393	11.45	10.31	12	16.5	\$630
11	3	202394	11.45	17.8	12	17.6	\$655
17	5	202395	11.5	10	12	23	\$750
26	7.5	202396	11.5	10	12	23	\$820
31	10	202397	11.5	10	12	27	\$850
47	15	202398	11.5	10	12	27	\$930
62	20	202399	11.5	10	12	30	\$1,070
75	25	202400	19.18	15.62	19.5	67	\$1,410
92	30	202401	19.18	15.62	19.5	68	\$1,555
114	40	202402	19.18	15.62	19.5	68	\$1,845
143	50	202403	19.18	15.62	19.5	76	\$2,110
169	60	202404	19.18	15.62	19.5	83	\$2,200
220	75	202405	22.15	20.62	28.5	120	\$2,850
275	100	202406	22.15	20.62	28.5	120	\$3,245

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460 V, 3% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202407	3.63	4.45	1.78	1.3	\$100
2.3	1	202408	3.63	4.45	1.78	1.2	\$115
4.2	2	202409	3.63	4.45	1.78	1.4	\$130
5	3	202410	3.63	4.45	1.78	1.4	\$145
8.2	5	202411	4.44	4.25	2.64	3	\$160
11	7.5	202412	4.44	4.25	2.64	3.2	\$170
14	10	202413	4.44	4.25	2.64	3.3	\$215
30	15	202414	5	6	4	8	\$280
30	20	202415	5	6	4	8	\$350
50	25	202416	5.75	7.2	4.25	10	\$370
45	30	202417	5.75	7.2	4.25	10	\$435
55	40	202418	5.75	7.2	5	15	\$585
65	50	202419	7	9	6	25	\$600
77	60	202420	7	9	6	25	\$675
110	75	202421	7	9	7	30	\$920
150	100	202422	7	11	7	40	\$1,050
165	125	202423	9	11	7	40	\$1,285
185	150	202424	9	11	7	40	\$1,405
240	200	202425	9	11	8	65	\$1,575
340	250	202426	9	11	8	65	\$1,870
370	300	202427	9	11	8	65	\$2,060
500	350	202428	9	11	9	70	\$2,440
520	400	202429	9	11	9	70	\$2,445
610	450	202430	11.38	14.5	9.5	110	\$3,205
610	500	202431	11.38	14.5	9.5	110	\$3,805
750	600	202432	11.38	16	11	155	\$4,675
850	700	202433	11.38	15	12	158	\$6,360
965	800	202434	18.5	17.32	12.85	280	\$7,270
1100	900	202435	18.5	18.25	12.5	275	\$8,180
1216	1000	202436	18.5	18.25	12.5	290	\$9,085
1350	1100	202437	20	21	16	475	\$9,990
1500	1250	202438	20	21	14.75	500	\$11,355

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Plus Pack

LV Options

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460 V, 3% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202439	12.25	12.5	6.75	11.7	\$295
2.3	1	202440	12.25	12.5	6.75	11.6	\$310
4.2	2	202441	12.25	12.5	6.75	11.8	\$325
5	3	202442	12.25	12.5	6.75	11.8	\$335
8.2	5	202443	12.25	12.5	6.75	13.4	\$350
11	7.5	202444	12.25	12.5	6.75	13.6	\$365
14	10	202445	12.25	12.5	6.75	13.7	\$405
30	15	202446	12.25	12.5	6.75	18.4	\$570
30	20	202447	12.25	12.5	6.75	18.4	\$640
50	25	202448	12.25	12.5	6.75	20.4	\$690
45	30	202449	12.25	12.5	6.75	20.4	\$760
55	40	202450	12.25	12.5	6.75	25.4	\$905
65	50	202451	19.13	15.43	15.43	62	\$1,220
77	60	202452	19.13	15.43	15.43	62	\$1,295
110	75	202453	19.13	15.43	15.43	67	\$1,545
150	100	202454	19.13	15.43	15.43	77	\$1,675
165	125	202455	19.13	15.43	15.43	77	\$1,905
185	150	202456	22.12	20.43	24.37	106	\$2,550
240	200	202457	22.12	20.43	24.37	131	\$2,720
340	250	202458	22.12	20.43	24.37	132	\$3,015
370	300	202459	22.12	20.43	24.37	132	\$3,205
500	350	202460	22.12	20.43	24.37	136	\$3,580
520	400	202461	22.12	20.43	24.37	136	\$3,590
610	450	202462	22.12	20.43	24.37	176	\$4,350
610	500	202463	22.12	20.43	24.37	176	\$4,945
750	600	202464	48	36.27	36.27	315	\$8,510
850	700	202465	48	36.27	36.27	468	\$10,195
965	800	202466	48	36.27	36.27	590	\$11,105
1100	900	202467	48	36.27	36.27	585	\$12,015
1216	1000	202468	48	36.27	36.27	600	\$12,920
1350	1100	202469	48	36.27	36.27	785	\$13,830
1500	1250	202470	48	36.27	36.27	810	\$15,190

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460 V, 3% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202471	11.45	10.31	12	16.3	\$565
2.3	1	202472	11.45	10.31	12	16.2	\$580
4.2	2	202473	11.45	10.31	12	16.4	\$590
5	3	202474	11.45	10.31	12	16.4	\$605
8.2	5	202475	11.45	18	12	13.4	\$620
11	7.5	202476	11.45	17.8	12	18.2	\$630
14	10	202477	11.45	17.8	12	18.3	\$675
30	15	202478	11.5	10	12	23	\$760
30	20	202479	11.5	10	12	23	\$835
50	25	202480	11.5	10	12	25	\$855
45	30	202481	11.5	10	12	25	\$920
55	40	202482	11.5	10	12	30	\$1070
65	50	202483	19.18	15.62	19.5	63	\$1,345
77	60	202484	19.18	15.62	19.5	63	\$1,425
110	75	202485	19.18	15.62	19.5	68	\$1,780
150	100	202486	19.18	15.62	19.5	78	\$1,915
165	125	202487	19.18	15.62	19.5	78	\$2,155
185	150	202488	22.15	20.62	28.5	110	\$2,840
240	200	202489	22.15	20.62	28.5	135	\$3,140
340	250	202490	22.15	20.62	28.5	135	\$3,415
370	300	202491	22.15	20.62	28.5	135	\$3,610
500	350	202492	22.15	20.62	28.5	136	\$4,085
520	400	202493	22.15	20.62	28.5	136	\$4,090
610	450	202494	22.15	20.62	28.5	180	\$4,920
610	500	202495	22.15	20.62	28.5	180	\$5,550
750	600	204692	36	28	30	305	\$9,625
850	700	204693	36	28	30	305	\$11,420
965	800	204694	48	36	36	610	\$12,435
1100	900	204695	48	36	36	610	\$13,695
1216	1000	204696	48	36	36	610	\$14,730
1350	1100	204697	50	40	40	860	\$15,765

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Plus Pack

LV Options

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Line Reactors



460 V, 5% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202496	3.63	4.45	1.78	1.3	\$105
2.3	1	202497	3.63	4.45	1.78	1.4	\$120
4.2	2	202498	4.44	4.25	2.64	2.8	\$150
5	3	202499	4.44	4.25	2.64	3	\$155
8.2	5	202500	4.44	4.25	2.64	3.7	\$185
11	7.5	202501	4.44	4.25	2.64	4	\$235
14	10	202502	4.44	4.25	2.64	4.2	\$280
30	15	202503	5	6	4	7	\$350
30	20	202504	5.75	7.5	5	15	\$425
50	25	202505	5.75	7.2	5	15	\$555
45	30	202506	5.75	7.2	5	16	\$565
55	40	202507	7	9	6	25	\$640
65	50	202508	7	9	6	25	\$920
77	60	202509	7	9	6	25	\$900
110	75	202510	9	11	7	45	\$1,095
150	100	202511	9	11	7	52	\$1,240
165	125	202512	10.15	10.75	6.75	55	\$1,375
185	150	202513	9	11	8	55	\$1,660
240	200	202514	9	11	9	70	\$1,910
310	250	202515	11.38	14.5	9.5	110	\$2,315
370	300	202516	11.38	14.5	9.31	95	\$2,685
500	350	202517	11.38	14.5	9.31	100	\$3,220
520	400	202518	11.38	14.5	9.5	110	\$3,245
610	450	202519	11.38	14.5	11	120	\$3,845
610	500	202520	11.38	14.5	11	120	\$4,170
750	600	202521	11.38	15	13	260	\$5,015
850	700	202522	11.38	15	13	260	\$6,825
965	800	202523	18.5	18.25	12.5	290	\$7,800
1100	900	202524	18.5	18.25	12.5	290	\$8,775
1216	1000	202525	18.5	18.25	12.5	274	\$9,745
1350	1100	202526	20	21	16	525	\$10,725

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Line Reactors



460 V, 5% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202527	12.25	12.5	6.75	11.7	\$300
2.3	1	202528	12.25	12.5	6.75	11.8	\$315
4.2	2	202529	12.25	12.5	6.75	13.2	\$340
5	3	202530	12.25	12.5	6.75	13.4	\$345
8.2	5	202531	12.25	12.5	6.75	14.1	\$375
11	7.5	202532	12.25	14.4	6.75	4	\$430
14	10	202533	12.25	12.5	6.75	14.6	\$475
30	15	202534	12.25	12.5	6.75	17.4	\$670
30	20	202535	12.25	12.5	6.75	25.4	\$745
50	25	202536	12.25	12.5	6.75	25.4	\$875
45	30	202537	12.25	12.5	6.75	26.4	\$890
55	40	202538	19.13	15.43	15.43	62	\$1,265
65	50	202539	19.13	15.43	15.43	62	\$1,545
77	60	202540	19.13	15.43	15.43	62	\$1,520
110	75	202541	19.13	15.43	15.43	89	\$1,720
150	100	202542	19.13	15.43	15.43	118	\$1,860
165	125	202543	22.12	20.43	24.37	125	\$2,515
185	150	202544	22.12	20.43	24.37	126	\$2,805
240	200	202545	22.12	20.43	24.37	141	\$3,050
340	250	202546	22.12	20.43	24.37	171	\$3,460
370	300	202547	22.12	20.43	24.37	171	\$3,825
500	350	202548	22.12	20.43	24.37	175	\$4,360
520	400	202549	22.12	20.43	24.37	201	\$4,390
610	450	202550	36	28.39	30.19	295	\$6,220
610	500	202551	36	28.39	30.19	295	\$6,545
750	600	202552	48	36.27	36.27	582	\$8,855
850	700	202553	48	36.27	36.27	590	\$10,660
965	800	202554	48	36.27	36.27	615	\$11,635
1100	900	202555	48	36.27	36.27	618	\$12,610
1216	1000	202556	48	36.27	36.27	627	\$13,585
1350	1100	202557	48	36.27	36.27	860	\$14,560

Reactors & Filters

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460 V, 5% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
1.6	0.5	202558	11.45	10.31	12	16.3	\$565
2.3	1	202559	11.45	10.31	12	16.4	\$585
4.2	2	202560	11.45	17.8	12	13.2	\$610
5	3	202561	11.45	18	12	13.4	\$615
8.2	5	202562	11.45	18.7	12	14.1	\$645
11	7.5	202563	11.45	19	12	4	\$700
14	10	202564	11.45	17.8	12	19.2	\$745
30	15	202565	11.5	10	12	22	\$830
30	20	202566	11.5	10	12	30	\$910
50	25	202567	11.5	10	12	30	\$1,040
45	30	202568	11.5	10	12	31	\$1,050
55	40	202569	19.18	15.62	19.5	63	\$1,390
65	50	202570	19.18	15.62	19.5	63	\$1,680
77	60	202571	19.18	15.62	19.5	63	\$1,655
110	75	202572	19.18	15.62	19.5	90	\$1,950
150	100	202573	19.18	15.62	19.5	120	\$2,095
165	125	202574	22.15	20.62	28.5	130	\$2,810
185	150	202575	22.15	20.62	28.5	130	\$3,100
240	200	202576	22.15	20.62	28.5	145	\$3,490
340	250	202577	22.12	20.43	24.37	175	\$3,885
370	300	202578	22.12	20.43	24.37	175	\$4,265
500	350	202579	22.15	20.62	28.5	180	\$4,870
520	400	202580	22.15	20.62	28.5	210	\$4,920
610	450	202581	36	28.39	36.86	305	\$7,430
610	500	202582	36	28.39	36.86	305	\$7,775

Reactors & Filters

Line Reactors



600 V, 3% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.2	2	202583	3.63	4.45	1.78	1.5	\$155
4.8	3	202584	4.44	4.25	2.64	3.5	\$160
7.6	5	202585	4.44	4.25	2.64	3	\$180
9	7.5	202586	4.44	4.25	2.64	3.2	\$205
11	10	202587	4.44	4.25	2.64	3.8	\$205
19.5	15	202588	5	6	4	8	\$330
24	20	202589	5	6	4	8	\$350
30	25	202590	5	6	4	8	\$360
32	30	202591	5.75	4.2	4.25	12	\$370
41	40	202592	5.75	7.2	5	15	\$440
52	50	202593	5.75	7.2	5	15	\$580
62	60	202594	7	9	6	30	\$595
77	75	202595	7	9	6	30	\$640
99	100	202596	7	9	6	30	\$845
125	125	202597	9	11	7	45	\$970
144	150	202598	9	11	7	45	\$1,180
192	200	202599	9	11	7	50	\$1,300
242	250	202600	9	11	8	65	\$1,485
292	300	202601	9	11	8	65	\$1,825
336	350	202602	9	11	9	70	\$2,005
385	400	202603	9	11	9	70	\$2,110
412	450	202604	9	11	9	70	\$2,290
480	500	202605	11.38	15	11	110	\$2,515
610	600	202606	11.38	14.5	11	150	\$3,050
675	700	202607	11.38	15	11	160	\$3,685
778	800	202608	11.38	15	13	185	\$4,045
900	900	202609	18.5	18.25	12.5	280	\$5,385
1000	1000	202610	18.5	18.25	12.5	280	\$5,640
1064	1100	202611	18.5	18.25	12.5	315	\$5,855
1216	1250	202612	18.5	18.25	12.5	300	\$6,585
1500	1500	202613	20	21	16	465	\$9,910

Reactors & Filters

Line Reactors



600 V, 3% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.2	2	202614	12.25	12.5	6.75	11.9	\$320
4.8	3	202615	12.25	12.5	6.75	13.9	\$325
7.6	5	202616	12.25	12.5	6.75	13.4	\$350
9	7.5	202617	12.25	12.5	6.75	13.6	\$360
11	10	202618	12.25	12.5	6.75	14.2	\$400
19.5	15	202619	12.25	12.5	6.75	18.4	\$650
24	20	202620	12.25	12.5	6.75	18.4	\$675
30	25	202621	12.25	12.5	6.75	18.4	\$675
32	30	202622	12.25	12.5	6.75	22.4	\$690
41	40	202623	12.25	12.5	6.75	25.4	\$765
52	50	202624	12.25	12.5	6.75	25.4	\$900
62	60	202625	19.13	15.43	15.43	67	\$1,215
77	75	202626	19.13	15.43	15.43	67	\$1,260
99	100	202627	19.13	15.43	15.43	67	\$1,470
125	125	202628	19.13	15.43	15.43	82	\$1,595
144	150	202629	19.13	15.43	15.43	82	\$1,805
192	200	202630	22.12	20.43	24.37	116	\$2,440
242	250	202631	22.12	20.43	24.37	131	\$2,630
292	300	202632	22.12	20.43	24.37	131	\$2,970
336	350	202633	22.12	20.43	24.37	145	\$3,145
385	400	202634	22.12	20.43	24.37	145	\$3,255
412	450	202635	22.12	20.43	24.37	145	\$3,435
480	500	202636	36	28.39	30.19	270	\$4,890
610	600	202637	36	28.39	30.19	310	\$5,425
675	700	202638	48	36.27	36.27	320	\$7,520
778	800	202639	48	36.27	36.27	585	\$7,880
900	900	202640	48	36.27	36.27	590	\$9,220
1000	1000	202641	48	36.27	36.27	590	\$9,475
1064	1100	202642	48	36.27	36.27	625	\$9,690
1216	1250	202643	48	36.27	36.27	610	\$10,425
1500	1500	202644	48	36.27	36.27	775	\$13,750

Reactors & Filters

Line Reactors



600 V, 3% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.2	2	202645	11.45	10.31	12	16.5	\$610
4.8	3	202646	11.45	18.5	12	13.9	\$615
7.6	5	202647	11.45	18	12	13.4	\$640
9	7.5	202648	11.45	17.8	12	18.2	\$655
11	10	202649	11.45	17.8	12	18.8	\$665
19.5	15	202650	11.5	10	12	23	\$810
24	20	202651	11.5	10	12	23	\$835
30	25	202652	11.5	10	12	23	\$840
32	30	202653	11.5	10	12	27	\$860
41	40	202654	11.5	10	12	30	\$925
52	50	202655	11.5	10	12	30	\$1,060
62	60	202656	19.18	15.62	19.5	68	\$1,345
77	75	202657	19.18	15.62	19.5	68	\$1,385
99	100	202658	19.18	15.62	19.5	68	\$1,700
125	125	202659	19.18	15.62	19.5	83	\$1,825
144	150	202660	19.18	15.62	19.5	83	\$2,050
192	200	202661	22.15	20.62	28.5	120	\$2,735
242	250	202662	22.15	20.62	28.5	135	\$3,045
292	300	202663	22.15	20.62	28.5	135	\$3,365
336	350	202664	22.15	20.62	28.5	150	\$3,550
385	400	202665	22.15	20.62	28.5	150	\$3,655
412	450	202666	22.15	20.62	28.5	150	\$3,845
480	500	202667	36	28.39	36.86	180	\$6,065
610	600	202668	36	28.39	36.86	320	\$7,070

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Plus Pack

LV Options

Reactors & Filters

Reactors & Filters

Line Reactors



600 V, 5% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.4	2	202669	4.44	4.25	2.64	2.7	\$160
4.5	3	202670	4.44	4.25	2.64	2.9	\$170
6.8	5	202671	4.44	4.25	2.64	3.4	\$185
10	7.5	202672	5	6	4	8	\$310
11	10	202673	5	6	4	8	\$350
18.5	15	202674	5	6	4	8	\$380
23	20	202675	5.75	7.2	4.25	12	\$430
30	25	202676	5.75	7.2	5	15	\$460
32	30	202677	5.75	7.2	5	16	\$560
44	40	202678	7	9	6	30	\$610
58	50	202679	7	9	6	30	\$730
62	60	202680	9	11	6	45	\$910
82	75	202681	9	11	6	45	\$925
99	100	202682	9	11	7	50	\$1,260
130	125	202683	9	11	7.5	65	\$1,330
155	150	202684	9	11	8	65	\$1,390
192	200	202685	9	11	9	70	\$1,765
260	250	202686	11.38	15	11	110	\$2,475
310	300	202687	11.38	15	11	110	\$2,520
344	350	202688	11.38	15	11	110	\$2,710
382	400	202689	11.38	15	11	110	\$2,800
440	450	202690	11.38	15	13	150	\$3,540
500	500	202691	11.38	15	13	150	\$3,690
610	600	202692	11.38	15	13	176	\$4,030
760	700	202693	18.5	18.25	12.5	280	\$5,135
850	800	202694	18.5	18.25	12.5	310	\$5,650
900	900	202695	18.5	18.25	12.5	310	\$6,765
1000	1000	202696	18.5	18.25	12.5	375	\$6,920
1064	1100	202697	18.5	18.25	12.5	450	\$7,150
1200	1250	202698	20	21	16	475	\$9,455
1500	1500	202699	20	21	16	575	\$12,490

Reactors & Filters

Line Reactors



600 V, 5% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.4	2	202700	12.25	12.5	6.75	13.1	\$335
4.5	3	202701	12.25	12.5	6.75	13.3	\$340
6.8	5	202702	12.25	12.5	6.75	13.8	\$375
10	7.5	202703	12.25	12.5	6.75	18.4	\$635
11	10	202704	12.25	12.5	6.75	18.4	\$675
18.5	15	202705	12.25	12.5	6.75	18.4	\$700
23	20	202706	12.25	12.5	6.75	22.4	\$750
30	25	202707	12.25	12.5	6.75	25.4	\$780
32	30	202708	12.25	12.5	6.75	26.4	\$880
44	40	202709	19.13	15.43	15.43	67	\$1,230
58	50	202710	19.13	15.43	15.43	67	\$1,355
62	60	202711	19.13	15.43	15.43	82	\$1,530
82	75	202712	19.13	15.43	15.43	82	\$1,545
99	100	202713	19.13	15.43	15.43	116	\$1,885
130	125	202714	19.13	20.43	24.37	135	\$1,950
155	150	202715	22.12	20.43	24.37	131	\$2,530
192	200	202716	22.12	20.43	24.37	136	\$2,910
260	250	202717	22.12	20.43	24.37	176	\$3,620
310	300	202718	22.12	20.43	24.37	176	\$3,665
344	350	202719	22.12	20.43	24.37	176	\$3,855
382	400	202720	22.12	20.43	24.37	176	\$3,945
440	450	202721	36	28.39	30.19	310	\$5,915
500	500	202722	36	28.39	30.19	310	\$6,065
610	600	202723	36	28.39	30.19	336	\$6,405
760	700	202724	48	36.27	36.27	590	\$8,975
850	800	202725	48	36.27	36.27	620	\$9,490
900	900	202726	48	36.27	36.27	620	\$10,605
1000	1000	202727	48	36.27	36.27	685	\$10,760
1064	1100	202728	48	36.27	36.27	760	\$10,985
1200	1250	202729	48	36.27	36.27	785	\$13,290
1500	1500	202730	48	36.27	36.27	885	\$16,325

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Plus Pack

LV Options

Reactors & Filters

Reactors & Filters

Line Reactors



600 V, 5% Type 3R Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.4	2	202731	11.45	17.7	12	13.1	\$625
4.5	3	202732	11.45	17.9	12	13.3	\$630
6.8	5	202733	11.45	18.4	12	13.8	\$645
10	7.5	202734	11.5	10	12	20	\$795
11	10	202735	11.5	10	12	20	\$840
18.5	15	202736	11.5	10	12	20	\$865
23	20	202737	11.5	10	12	27	\$915
30	25	202738	11.5	10	12	30	\$940
32	30	202739	11.5	10	12	31	\$1,045
44	40	202740	19.18	15.62	19.5	68	\$1,355
58	50	202741	19.18	15.62	19.5	68	\$1,485
62	60	202742	19.18	15.62	19.5	83	\$1,665
82	75	202743	19.18	15.62	19.5	83	\$1,680
99	100	202744	19.18	15.62	19.5	118	\$2,125
130	125	202745	19.18	15.62	19.5	140	\$2,195
155	150	202746	22.15	20.62	28.5	135	\$2,825
192	200	202747	22.15	20.62	28.5	140	\$3,215
260	250	202748	22.15	20.62	28.5	180	\$4,070
310	300	202749	22.15	20.62	28.5	180	\$4,085
344	350	202750	22.15	20.62	28.5	180	\$4,280
382	400	202751	22.15	20.62	28.5	180	\$4,370
440	450	202752	36	28.39	36.86	320	\$7,125
500	500	202753	36	28.39	36.86	320	\$7,275
610	600	202754	36	28.39	36.86	350	\$9,025

Reactors & Filters

Line Reactors



690 V, 3% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.3	2	202755	3.63	4.45	1.78	1.5	\$155
5	3	202756	4.44	4.25	2.64	3.5	\$160
7	5	202757	4.44	4.25	2.64	3	\$180
10.4	7.5	202758	4.44	4.25	2.64	3.2	\$205
11	10	202759	4.44	4.25	2.64	3.8	\$205
19.5	15	202760	5	6	4	8	\$330
24	20	202761	5	6	4	8	\$350
30	25	202762	5	6	4	8	\$360
32	30	202763	5.75	4.2	4.25	12	\$370
41	40	202764	5.75	7.2	5	15	\$440
52	50	202765	5.75	7.2	5	15	\$580
62	60	202766	7	9	6	30	\$595
77	75	202767	7	9	6	30	\$640
99	100	202768	7	9	6	30	\$845
125	125	202769	9	11	7	45	\$970
144	150	202770	9	11	7	45	\$1,180
192	200	202771	9	11	7	50	\$1,300
242	250	202772	9	11	8	65	\$1,485
292	300	202773	9	11	8	65	\$1,825
336	350	202774	9	11	9	70	\$2,005
385	400	202775	9	11	9	70	\$2,110
412	450	202776	9	11	9	70	\$2,290
480	500	202777	11.38	15	11	110	\$2,515
610	600	202778	11.38	14.5	11	150	\$3,050
675	700	202779	11.38	15	11	160	\$3,685
850	800	202780	11.38	15	13	185	\$4,045
900	900	202781	18.5	18.25	12.5	280	\$5,385
1000	1000	202782	18.5	18.25	12.5	280	\$5,640
1064	1100	202783	18.5	18.25	12.5	315	\$5,855
1200	1250	202784	18.5	18.25	12.5	300	\$6,585
1500	1500	202785	20	21	16	465	\$9,910

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NC3

Plus Pack

LV Options

Reactors & Filters

Reactors & Filters

Line Reactors



690 V, 3% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.3	2	202786	12.25	12.5	6.75	11.9	\$320
5	3	202787	12.25	12.5	6.75	13.9	\$325
7	5	202788	12.25	12.5	6.75	13.4	\$350
10.4	7.5	202789	12.25	12.5	6.75	13.6	\$360
11	10	202790	12.25	12.5	6.75	14.2	\$400
19.5	15	202791	7.5	10	7	14	\$540
24	20	202792	7.5	10	7	14	\$565
30	25	202793	7.5	10	7	14	\$570
32	30	202794	7.5	10	7	18	\$620
41	40	202795	7.5	10	7	21	\$700
52	50	202796	7.5	10	7	21	\$850
62	60	202797	9	12	8	42	\$960
77	75	202798	9	12	8	42	\$1,005
99	100	202799	15.5	15	13	65	\$1,440
125	125	202801	15.5	15	13	261	\$1,580
144	150	202802	15.5	15	13	80	\$1,810
192	200	202803	15.5	15	13	85	\$1,940
242	250	202804	15.5	15	13	100	\$2,140
292	300	202805	15.5	15	13	100	\$2,515
336	350	202806	18.5	20	16	120	\$2,885
385	400	202807	18.5	20	16	120	\$3,005
412	450	202808	18.5	20	16	120	\$3,200
480	500	202809	18.5	20	16	160	\$3,445
610	600	202810	18.5	20	16	160	\$4,035
675	700	202811	18.5	20	16	210	\$4,735
850	800	202812	11.38	15	11	275	\$5,125
900	900	202813	18.5	18.25	12.5	280	\$7,710
1000	1000	202814	18.5	18.25	12.5	290	\$7,995
1064	1100	202815	18.5	18.25	12.5	315	\$8,230
1200	1250	202816	36	28.39	30.19	325	\$9,035
1500	1500	202817	36	28.39	30.19	625	\$12,695

Reactors & Filters

Line Reactors



690 V, 5% Open Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.4	2	202818	4.44	4.25	2.64	2.7	\$160
4.5	3	202819	4.44	4.25	2.64	2.9	\$170
6.8	5	202820	4.44	4.25	2.64	3.4	\$185
10	7.5	202821	5	6	4	8	\$345
11	10	202822	5	6	4	8	\$385
18.5	15	202823	5	6	4.5	8	\$420
23	20	202824	5.75	7.2	4.61	12	\$475
30	25	202825	5.75	7.2	5	15	\$505
32	30	202826	7.75	7.2	5	16	\$615
44	40	202827	7	9	6	30	\$670
58	50	202828	7	9	6	30	\$800
62	60	202829	9	11	6	45	\$1,000
82	75	202830	9	11	6	45	\$1,020
99	100	202831	9	11	7	50	\$1,385
130	125	202832	9	11	8	65	\$1,460
155	150	202833	9	11	8	65	\$1,525
192	200	202834	9	11	9	70	\$1,940
260	250	202835	11.38	15	11	110	\$2,725
310	300	202836	11.38	15	11	110	\$2,770
344	350	202837	11.38	15	11	110	\$2,980
382	400	202838	11.38	15	11	110	\$3,080
440	450	202839	11.38	15	13	165	\$3,895
500	500	202840	11.38	15	13	165	\$4,060
576	600	202841	11.38	15	13	175	\$4,430
760	700	202842	18.5	18.25	12.5	200	\$5,650
864	800	202843	18.5	18.25	12.5	280	\$6,215
864	900	202844	18.5	18.25	12.5	290	\$7,445
1000	1000	202845	18.5	18.25	12.5	375	\$7,615
1064	1100	202846	18.5	18.25	12.5	450	\$7,865
1200	1250	202847	20	21	16	475	\$10,400
1500	1500	202848	20	21	16	575	\$13,740

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NC3

Plus Pack

LV Options

Reactors & Filters

Reactors & Filters

Line Reactors



690 V, 5% Type 1 Enclosure

Amps	HP	Model Number	H	W	D	Weight (lbs.)	List Price
			Dimensions (in.)				
3.4	2	202849	12.25	12.5	6.75	13.1	\$335
4.5	3	202850	12.25	12.5	6.75	13.3	\$340
6.8	5	202851	12.25	12.5	6.75	13.8	\$375
10	7.5	202852	7.5	10	7	14	\$560
11	10	202853	7.5	10	7	14	\$600
18.5	15	202854	7.5	10	7	14	\$635
23	20	202855	7.5	10	7	18	\$690
30	25	202856	7.5	10	7	21	\$720
32	30	202857	9	12	8	28	\$830
44	40	202858	9	12	8	42	\$970
58	50	202859	9	12	8	42	\$1,105
62	60	202860	15.5	15	13	80	\$1,510
82	75	202861	15.5	15	13	80	\$1,525
99	100	202862	15.5	15	13	85	\$1,900
130	125	202863	15.5	15	13	100	\$1,970
155	150	202864	15.5	15	13	100	\$2,040
192	200	202865	18.5	20	16	120	\$2,620
260	250	202866	18.5	20	16	160	\$3,410
310	300	202867	18.5	20	16	160	\$3,450
344	350	202868	18.5	20	16	160	\$3,660
382	400	202869	18.5	20	16	160	\$3,760
440	450	202870	18.5	20	16	215	\$4,575
500	500	202871	18.5	20	16	215	\$4,740
576	600	202872	18.5	20	16	225	\$5,115
760	700	202873	18.5	18.25	12.5	200	\$6,335
864	800	202874	36	28.39	30.19	440	\$8,005
864	900	202875	36	28.39	30.19	450	\$9,235
1000	1000	202876	18.5	18.25	12.5	375	\$9,405
1064	1100	202877	18.5	18.25	12.5	450	\$9,655
1200	1250	202878	36	28.39	30.19	635	\$12,190
1500	1500	202879	20	21	16	575	\$15,530