



MGM TRANSFORMER COMPANY

5701 SMITHWAY STREET • CITY OF COMMERCE, CA 90040

(323)726-0888 • FAX (323)726-8224

SELECTION TABLES

BUCK-BOOST TRANSFORMERS

Single Phase Application			Boosting								Bucking					
Line Voltage (Available)			95	100	105	110	189	208	215	220	125	132	230	245	250	252
Load Voltage (Output)			114	120	115	120	208	230	237	242	113	120	208	222	227	240
Catalog Number																
M181047	Load	kVA	0.24	0.25	0.48	0.5	0.43	0.48	0.49	0.5	0.52	0.54	0.47	0.5	0.52	1.02
		Amps	2.08	2.08	4.17	4.17	2.08	2.08	2.08	2.08	4.6	4.6	2.28	2.28	2.28	4.37
		Maximum Size of Fuse or Breaker	6	6	10	10	6	6	6	6	10	10	6	6	6	10
M181048	Load	kVA	0.47	0.5	0.96	1.01	0.87	0.96	0.99	1.01	1.04	1.08	0.95	1	1.04	2.04
		Amps	4.17	4.17	8.33	8.33	4.17	4.17	4.17	4.17	9.2	9.2	4.56	4.56	4.58	8.75
		Maximum Size of Fuse or Breaker	10	10	15	15	10	10	10	10	15	15	10	10	10	15
M181049	Load	kVA	0.71	0.75	1.43	1.51	1.3	1.43	1.48	1.51	1.56	1.62	1.42	1.5	1.56	3
		Amps	6.25	6.25	12.5	12.5	6.25	6.25	6.25	6.25	13.8	13.8	6.86	6.86	6.86	13.1
		Maximum Size of Fuse or Breaker	15	15	20	20	15	15	15	15	20	20	15	15	15	15
M181050	Load	kVA	1.19	1.25	2.4	2.5	2.16	2.39	2.46	2.52	2.6	2.75	2.37	2.5	2.6	5.1
		Amps	10.42	10.4	20.8	20.8	10.4	10.4	10.4	10.4	22.8	22.8	11.4	11.4	11.4	21.8
		Maximum Size of Fuse or Breaker	25	25	40	30	15	15	15	15	30	30	15	15	15	30
M181051	Load	kVA	2.37	2.5	4.8	5	4.33	4.79	4.93	5.04	5.2	5.4	4.47	5	5.2	10.2
		Amps	20.83	20.83	41.67	41.67	20.83	20.83	20.83	20.83	46.8	46.8	22.8	22.8	22.8	43.7
		Maximum Size of Fuse or Breaker	35	35	60	60	30	30	30	30	60	60	30	30	30	60
M181052	Load	kVA	3.56	3.75	7.17	7.56	6.5	7.19	7.41	7.56	7.8	8.15	7.1	7.5	7.8	15.3
		Amps	31.25	31.25	62.5	62.5	31.25	31.25	31.25	31.25	68.5	69.5	34.4	34.4	34.4	65.5
		Maximum Size of Fuse or Breaker	50	50	90	90	45	45	45	45	80	80	40	40	40	80
M111683	Load	kVA	4.75	5	9.58	10	8.66	9.58	9.87	10	10.4	10.8	9.5	10	10	20.4
		Amps	41.67	41.67	83.31	83.31	41.67	41.67	41.67	41.67	91.5	91.5	45.8	45.8	45.8	87.5
		Maximum Size of Fuse or Breaker	70	70	125	125	60	60	60	60	110	110	60	60	50	110
M111684	Load	kVA	7.12	7.5	14.4	15.1	13	14.3	14.8	15.1	15	16.2	14.24	15	15.6	30.6
		Amps	62.5	62.5	125	125	62.5	62.5	62.5	62.5	138	138	68.6	68.6	68.6	132
		Maximum Size of Fuse or Breaker	100	100	175	175	90	90	90	90	150	175	80	80	80	175
M111685	Load	kVA	9.5	10	19.2	20.2	17.3	19.16	19.7	20.1	20.8	21.6	19	20	20.3	40.8
		Amps	83.3	83.3	166.6	166.6	83.3	83.3	83.3	83.3	183	183	91.6	91.6	91.2	175
		Maximum Size of Fuse or Breaker	125	125	250	250	125	125	125	125	225	225	110	110	110	225
M111686	Load	kVA	14.2	15	28.8	30	26	28.7	29.6	30.3	31.2	32.5	28.5	30	31.2	61
		Amps	125	125	250	250	125	125	125	125	275	275	136.8	136.8	136.8	263
		Maximum Size of Fuse or Breaker	200	200	350	350	175	175	175	175	350	350	175	175	175	350
M111687	Load	kVA	23.7	25	47.9	50	43.3	47.8	49.3	50.3	52	54	47.4	50	52	102
		Amps	208	208	416.6	416.6	208	208	208	208	457	457	228	228	228	437
		Maximum Size of Fuse or Breaker	350	350	600	600	300	300	300	300	600	600	300	300	300	600
M111688	Load	kVA	35.6	37.5	71.9	75.6	65	71.8	74	75.6	78	81	71	76	78	153
		Amps	312.5	312.5	625	625	312.5	312.5	312.5	312.5	688	688	344	344	344	655
		Maximum Size of Fuse or Breaker	500	500	1000	1000	450	450	450	450	800	800	400	400	400	800
M111689	Load	kVA	47.5	50	95.8	100	86.6	95.8	98.7	101	104	108	95	100	104	204
		Amps	416.6	416.6	833.3	833.3	416.6	416.6	416.6	416.6	915	915	458	458	458	875
		Maximum Size of Fuse or Breaker	700	700	1200	1200	600	600	600	600	1200	1200	600	600	600	1200
Connection Diagrams			D	D	C	C	H	H	H	H	F	F	I	I	I	E

NOTE: Inputs and Outputs may be reversed; KVA capacity remains constant. All applications above bold face line are suitable for 50/60 Hz. All Applications below bold face line are suitable for 60 Hz only.



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SELECTION TABLES

BUCK-BOOST TRANSFORMERS

Single Phase Application			Boosting							Bucking						
Line Voltage (Available)			95	100	105	208	215	215	220	225	135	240	240	245	250	255
Load Voltage (Output)			120	114	119	240	244	230	235	240	119	208	225	230	234	239
Catalog Number																
M181054	Load	kVA	0.19	0.36	0.37	0.38	0.38	0.72	0.73	0.75	0.42	0.37	0.75	0.77	0.78	0.8
		Amps	1.56	3.13	3.13	1.56	1.56	3.13	3.13	3.13	3.54	1.77	3.33	3.33	3.33	3.33
		Maximum Size of Fuse or Breaker	6	6	6	6	6	6	6	6	6	6	3	6	6	6
M181055	Load	kVA	0.38	0.71	0.74	0.75	0.76	1.44	1.47	1.5	0.84	0.74	1.5	1.53	1.56	1.59
		Amps	3.13	6.25	6.25	3.13	3.13	6.25	6.25	6.25	7.08	3.54	6.67	6.67	6.67	6.67
		Maximum Size of Fuse or Breaker	10	15	6	6	15	15	15	15	15	15	6	15	15	15
M181056	Load	kVA	0.56	1.07	1.12	1.13	1.14	2.16	2.2	2.25	1.26	1.11	2.25	2.3	2.34	2.39
		Amps	4.69	9.38	9.38	4.69	4.69	9.38	9.38	9.38	10.63	5.31	10	10	10	10
		Maximum Size of Fuse or Breaker	10	15	15	10	10	15	15	15	15	15	6	15	15	15
M181057	Load	kVA	0.94	1.78	1.86	1.88	1.91	3.59	3.67	3.75	2.11	1.84	3.75	3.83	3.9	3.98
		Amps	7.81	15.63	15.63	7.81	7.81	15.63	15.63	15.63	17.71	8.85	16.67	16.67	16.67	16.67
		Maximum Size of Fuse or Breaker	15	25	25	15	15	25	25	25	20	15	20	20	20	20
M181058	Load	kVA	1.88	3.56	3.72	3.75	3.81	7.19	7.34	7.5	4.21	3.68	7.5	7.67	7.8	7.97
		Amps	15.63	31.25	31.25	15.63	15.63	31.25	31.25	31.25	35.42	17.71	33.33	33.33	33.33	33.33
		Maximum Size of Fuse or Breaker	25	45	45	25	25	45	45	45	40	20	40	40	40	40
M181059	Load	kVA	2.81	5.34	5.58	5.63	5.72	10.78	11.02	11.25	6.32	5.53	11.25	11.5	11.7	11.95
		Amps	23.44	46.88	46.88	23.44	23.44	46.88	46.88	46.88	53.13	26.56	50	50	50	50
		Maximum Size of Fuse or Breaker	40	70	70	40	40	70	70	70	60	30	60	60	60	60
M113073	Load	kVA	3.75	7.13	7.44	7.5	7.63	14.38	14.69	15	8.43	7.37	15	15.33	15.6	15.93
		Amps	31.25	62.5	62.5	31.25	31.25	62.5	62.5	62.5	70.83	35.42	66.67	66.67	66.67	66.67
		Maximum Size of Fuse or Breaker	50	90	90	50	50	90	90	90	80	40	80	80	80	80
M113074	Load	kVA	5.63	10.69	11.16	11.25	11.44	21.56	22.03	22.5	12.64	11.05	22.5	23	23.4	23.9
		Amps	46.9	93.8	93.8	46.9	46.9	93.8	93.8	93.8	106.3	53.1	100	100	100	100
		Maximum Size of Fuse or Breaker	80	150	150	70	70	125	125	125	125	60	125	125	125	125
M113075	Load	kVA	7.5	14.25	14.88	15	15.25	28.75	29.38	30	16.86	14.73	30	30.67	31.2	31.87
		Amps	62.5	125	125	62.5	62.5	125	125	125	141.7	70.8	133.3	133.3	133.3	133.3
		Maximum Size of Fuse or Breaker	100	200	200	90	90	175	175	175	175	80	175	175	175	175
M113076	Load	kVA	11.25	21.38	22.31	22.5	22.88	43.13	44.06	45	25.29	22.1	45	46	46.8	47.8
		Amps	93.8	187.5	187.5	93.8	93.8	187.5	187.5	187.5	212.5	106.3	200	200	200	200
		Maximum Size of Fuse or Breaker	150	300	300	150	150	250	250	250	250	125	250	250	250	250
M113077	Load	kVA	18.75	35.63	37.19	37.5	38.13	71.88	73.44	75	42.15	36.83	75	76.67	78	79.67
		Amps	156.3	312.5	312.5	156.3	156.3	312.5	312.5	312.5	354.2	177.1	333.3	333.3	333.3	333.3
		Maximum Size of Fuse or Breaker	250	450	450	225	225	450	450	450	400	200	400	400	400	400
M213078	Load	kVA	28.1	53.4	55.8	56.3	57.2	107.8	110.2	112.5	63.2	55.3	112.5	115	117	119.5
		Amps	234.4	468.8	468.8	234.4	234.4	468.8	468.8	468.8	531.3	265.6	500	500	500	500
		Maximum Size of Fuse or Breaker	400	700	700	350	350	700	700	700	600	300	600	600	600	600
M213079	Load	kVA	37.5	71.3	74.4	75	76.3	143.8	146.9	150	84.3	73.7	150	153.3	156	159.3
		Amps	312.5	625	625	312.5	312.5	625	625	625	708.3	354.2	666.7	666.7	666.7	666.7
		Maximum Size of Fuse or Breaker	500	1000	1000	450	450	1000	1000	1000	800	400	800	800	800	800
Connection Diagrams			D	C	C	H	H	G	G	G	F	I	E	E	E	E

NOTE: Inputs and Outputs may be reversed; KVA capacity remains constant. All applications above bold face line are suitable for 50/60 Hz. All Applications below bold face line are suitable for 60 Hz only.



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SELECTION TABLES

BUCK-BOOST TRANSFORMERS

Single Phase Application			Boosting									Bucking				
Line Voltage (Available)			230	380	416	425	430	435	440	440	450	460	277	480	480	504
Load Voltage (Output)			277	420	457	467	473	457	462	484	472	483	230	436	456	480
Catalog Number																
M181061	Load	kVA	0.29	0.44	0.48	0.49	0.49	0.95	0.96	0.5	0.98	1.01	0.29	0.5	1.05	1.1
		Amps	1.04	1.04	1.04	1.04	1.04	2.08	2.08	1.04	2.08	2.08	1.25	1.15	2.29	2.29
		Maximum Size of Fuse or Breaker	3	3	3	3	3	6	6	3	6	6	3	3	6	6
M181062	Load	kVA	0.58	0.87	0.95	0.97	0.99	1.9	1.93	1.01	1.97	2.01	0.58	1	2.09	2.2
		Amps	2.08	2.08	2.08	2.08	2.08	4.17	4.17	2.08	4.17	4.17	2.5	2.29	4.58	4.58
		Maximum Size of Fuse or Breaker	6	6	6	6	6	10	10	6	10	10	6	6	10	10
M181063	Load	kVA	0.87	1.31	1.43	1.46	1.48	2.86	2.89	1.51	2.95	3.02	0.86	1.5	3.14	3.3
		Amps	3.13	3.13	3.13	3.13	3.13	6.25	6.25	3.13	6.25	6.25	3.75	3.44	6.88	6.88
		Maximum Size of Fuse or Breaker	10	6	6	6	6	15	15	6	15	15	6	6	15	15
M181064	Load	kVA	1.44	2.19	2.38	2.43	2.46	4.76	4.81	2.52	4.92	5.03	1.44	2.5	5.23	5.5
		Amps	5.21	5.21	5.21	5.21	5.21	5.21	10.42	5.21	10.42	10.42	6.25	5.73	11.46	11.46
		Maximum Size of Fuse or Breaker	15	10	10	10	10	15	15	10	15	15	10	10	15	15
M181065	Load	kVA	2.89	4.38	4.76	4.86	4.93	9.52	9.62	5.04	9.83	10.06	2.88	5	10.45	11
		Amps	10.42	10.42	10.42	10.42	10.42	20.83	20.83	10.42	20.83	20.83	12.5	11.46	22.92	22.92
		Maximum Size of Fuse or Breaker	20	15	15	15	15	30	30	15	30	30	15	15	30	30
M181066	Load	kVA	4.33	6.56	7.14	7.3	7.39	14.28	14.44	7.56	14.75	15.09	4.31	7.49	15.68	16.5
		Amps	15.63	15.63	15.63	15.63	15.63	31.25	31.25	15.63	31.25	31.25	18.75	17.19	34.38	34.38
		Maximum Size of Fuse or Breaker	25	25	25	25	25	45	45	25	45	45	20	20	45	45
M137920	Load	kVA	5.77	8.57	9.52	9.73	9.85	19.04	19.25	10.08	19.67	20.13	5.75	9.99	20.9	22
		Amps	20.83	20.83	20.83	20.83	20.83	41.67	41.67	20.83	41.67	41.67	25	22.92	45.83	45.83
		Maximum Size of Fuse or Breaker	35	30	30	30	30	60	60	30	60	60	30	30	60	60
M137921	Load	kVA	8.66	13.13	14.28	14.59	14.78	28.56	28.88	15.13	29.5	30.19	8.63	14.99	31.35	33
		Amps	31.25	31.25	31.25	31.25	31.25	62.5	62.5	31.25	62.5	62.5	37.5	34.38	68.75	68.75
		Maximum Size of Fuse or Breaker	50	50	45	45	45	90	90	45	90	90	40	40	90	90
M137922	Load	kVA	11.54	17.5	19.04	19.46	19.71	38.08	38.5	20.17	39.33	40.25	11.5	19.98	41.8	44
		Amps	41.67	41.67	41.67	41.67	41.67	83.33	83.33	41.67	83.33	83.33	50	45.83	91.67	91.67
		Maximum Size of Fuse or Breaker	70	60	60	60	60	110	110	60	110	110	60	60	110	110
M137923	Load	kVA	17.31	26.25	28.56	29.19	29.56	57.13	57.75	30.25	59	60.38	17.25	29.98	62.7	66
		Amps	62.5	62.5	62.5	62.5	62.5	125	125	62.5	125	125	75	68.8	137.5	137.5
		Maximum Size of Fuse or Breaker	100	90	90	90	90	175	175	90	175	175	80	80	175	175
M137924	Load	kVA	28.9	43.8	47.6	48.6	49.3	95.2	96.2	50.4	98.3	100.6	28.8	50	104.5	110
		Amps	104.2	104.2	104.2	104.2	104.2	208.3	208.3	104.2	208.3	208.3	125	114.6	229.2	229.2
		Maximum Size of Fuse or Breaker	175	150	150	150	150	300	300	150	300	300	150	150	300	300
M243570	Load	kVA	43.3	65.6	71.4	73	73.9	142.8	144.4	75.6	147.5	150.9	43.1	74.9	156.8	165
		Amps	156.3	156.3	156.3	156.3	156.3	312.5	312.5	156.3	312.5	312.5	187.5	171.9	343.8	343.8
		Maximum Size of Fuse or Breaker	250	225	225	225	225	450	450	225	450	450	200	200	450	450
M243571	Load	kVA	57.7	87.5	95.2	97.3	98.5	190.4	192.5	100.8	196.7	201.3	57.5	99.9	209	220
		Amps	208.3	208.3	208.3	208.3	208.3	416.7	416.7	208.3	416.7	416.7	250	229.2	458.3	458.3
		Maximum Size of Fuse or Breaker	350	300	300	300	300	600	600	300	600	600	300	300	600	600
Connection Diagrams			D	H	H	H	H	G	G	H	G	G	J	I	E	E

NOTE: Inputs and Outputs may be reversed; KVA capacity remains constant. All applications above bold face line are suitable for 50/60 Hz. All Applications below bold face line are suitable for 60 Hz only.



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SELECTION TABLES

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Three Phase Application			Boosting							Bucking					
Line Voltage (Available)			189Y109	196Y113	201Y116	208Y120	189	208	220	219	230	250	255	264	
Load Voltage (Output)			208	234	240	230	208	230	242	208	208	227	232	240	
Catalog Number															
M181047	Load	kVA	1.5	0.84	0.87	1.66	0.75	0.83	0.87	1.58	0.83	0.9	0.92	0.95	
		Amps	4.17	2.08	2.08	4.17	2.08	2.08	2.08	2.08	4.39	2.3	2.29	2.29	2.29
		Maximum Size of Fuse or Breaker	10	6	6	10	6	6	6	6	10	6	6	6	6
M181048	Load	kVA	3	1.69	1.73	3.32	1.5	1.66	1.75	3.16	1.66	1.8	1.84	1.91	
		Amps	8.33	4.17	4.17	8.33	4.17	4.17	4.17	4.17	8.77	4.61	4.59	4.58	4.58
		Maximum Size of Fuse or Breaker	15	10	10	15	10	10	10	10	15	10	10	10	10
M181049	Load	kVA	4.5	2.53	2.6	4.98	2.25	2.49	2.62	4.74	2.49	2.71	2.76	2.86	
		Amps	12.5	6.25	6.25	12.5	6.25	6.25	6.25	6.25	13.16	6.91	6.88	6.87	6.88
		Maximum Size of Fuse or Breaker	20	15	15	20	15	15	15	15	20	15	15	15	15
M181050	Load	kVA	7.51	4.22	4.33	8.3	3.75	4.15	4.37	7.9	4.15	4.51	4.6	4.76	
		Amps	20.83	10.42	10.42	20.83	10.42	10.42	10.42	10.42	21.94	11.52	11.47	11.45	11.46
		Maximum Size of Fuse or Breaker	30	20	20	30	15	15	15	15	30	15	15	15	15
M181051	Load	kVA	15.01	8.44	8.66	16.6	7.51	8.3	8.73	15.8	8.3	9.02	9.2	9.53	
		Amps	41.67	20.83	20.83	41.67	20.83	20.83	20.83	20.83	43.87	23.04	22.94	22.9	22.92
		Maximum Size of Fuse or Breaker	60	35	35	60	30	30	30	30	60	30	30	30	30
M181052	Load	kVA	22.52	12.67	12.99	24.9	11.26	12.45	13.1	23.71	12.45	13.53	13.8	14.29	
		Amps	62.5	31.25	31.25	62.5	31.25	31.25	31.25	62.5	31.25	31.25	31.25	31.25	
		Maximum Size of Fuse or Breaker	90	50	50	90	45	45	45	45	90	40	40	40	40
M111683	Load	kVA	30.02	16.89	17.32	33.2	15.01	16.6	17.46	31.61	16.6	18.04	18.4	19.05	
		Amps	83.33	41.67	41.67	83.33	41.67	41.67	41.67	87.74	46.07	45.89	45.8	45.83	
		Maximum Size of Fuse or Breaker	125	70	70	125	60	60	60	110	60	60	60	60	
M111684	Load	kVA	45.03	25.33	25.98	49.8	22.52	24.9	26.2	47.41	24.9	27.06	27.6	28.58	
		Amps	125	62.5	62.5	125	62.5	62.5	62.5	131.61	69.11	68.83	68.7	68.75	
		Maximum Size of Fuse or Breaker	175	100	100	175	90	90	90	175	80	80	80	80	
M111685	Load	kVA	60.04	33.77	34.64	66.4	30.02	33.2	34.93	63.22	33.2	36.08	36.81	38.11	
		Amps	166.67	83.33	83.33	167.67	83.33	83.33	83.33	175.48	92.15	91.78	91.59	91.67	
		Maximum Size of Fuse or Breaker	250	125	125	250	125	125	125	225	110	110	110	110	
M111686	Load	kVA	90.07	50.66	51.96	99.59	45.03	49.8	52.39	94.83	49.8	54.13	55.21	57.16	
		Amps	250	125	125	250	125	125	125	263.22	138.22	137.67	137.39	137.5	
		Maximum Size of Fuse or Breaker	350	200	200	350	175	175	175	350	175	175	175	175	
M111687	Load	kVA	150.11	84.44	86.6	165.99	75.06	82.99	87.32	158.05	82.99	90.21	92.02	95.26	
		Amps	416.67	208.33	208.33	416.67	208.33	208.33	208.33	438.7	230.37	229.44	228.99	229.17	
		Maximum Size of Fuse or Breaker	600	350	350	600	300	300	300	600	300	300	300	300	
M211688	Load	kVA	225.17	126.66	129.9	248.98	112.58	124.49	130.99	237.07	124.49	135.32	138.02	142.89	
		Amps	625	312.5	312.5	625	312.5	312.5	312.5	658.05	345.55	344.16	343.48	343.75	
		Maximum Size of Fuse or Breaker	1000	500	500	1000	450	450	450	800	400	400	400	400	
M211689	Load	kVA	300.22	168.87	173.21	331.98	150.11	165.99	174.65	316.1	165.99	180.42	184.03	190.53	
		Amps	833.33	416.67	416.67	833.33	416.67	416.67	416.67	877.4	460.74	458.88	457.97	458.33	
		Maximum Size of Fuse or Breaker	1200	700	700	1200	600	600	600	1200	600	600	600	600	

Quantity Required	3	3	3	3	2	2	2	2	2	2	2	2	2
Connection Diagrams	A-A	F-F	F-F	A-A	B-B	B-B	B-B	C-C	E-E	E-E	E-E	E-E	E-E

NOTE: Inputs and Outputs may be reversed; KVA capacity remains constant. All applications above bold face line are suitable for 50/60 Hz. All Applications below bold face line are suitable for 60 Hz only.



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SELECTION TABLES

BUCK-BOOST TRANSFORMERS

Three Phase Application			Boosting					Bucking					
Line Voltage (Available)			183Y106	208Y120	195	208	225	240	245	250	256	265	272
Load Voltage (Output)			208	236	208	240	240	208	230	234	240	234	240
Catalog Number													
M181054	Load	kVA	1.13	1.28	1.13	0.63	1.3	0.56	1.33	1.35	1.39	0.72	0.74
		Amps	3.13	3.13	3.13	1.56	3.13	1.56	3.33	3.34	3.33	1.77	1.77
		Maximum Size of Fuse or Breaker	6	6	6	3	6	3	6	6	6	3	3
M181055	Load	kVA	2.25	2.55	2.25	1.27	2.6	1.13	2.65	2.71	2.77	1.43	1.47
		Amps	6.25	6.25	6.25	3.13	6.25	3.13	6.66	6.68	6.67	3.54	3.54
		Maximum Size of Fuse or Breaker	15	15	15	6	15	6	15	15	15	6	6
M181056	Load	kVA	3.38	3.83	3.38	1.9	3.9	1.69	3.98	4.06	4.16	2.15	2.21
		Amps	9.38	9.38	9.38	4.69	9.38	4.69	9.99	10.02	10	5.31	5.31
		Maximum Size of Fuse or Breaker	15	15	15	10	15	10	15	15	15	10	10
M181057	Load	kVA	5.63	6.39	5.63	3.17	6.5	2.81	6.63	6.77	6.93	3.59	3.68
		Amps	15.63	15.63	15.63	7.81	15.63	7.81	16.64	16.69	16.67	8.85	8.85
		Maximum Size of Fuse or Breaker	25	25	25	15	25	15	20	20	20	15	15
M181058	Load	kVA	11.26	12.77	11.26	6.33	12.99	5.63	13.26	13.53	13.86	7.17	7.36
		Amps	31.25	31.25	31.25	15.63	31.25	15.63	33.29	33.39	33.33	17.69	17.71
		Maximum Size of Fuse or Breaker	45	45	45	25	45	20	40	40	40	20	20
M181059	Load	kVA	16.89	19.16	16.89	9.5	19.49	8.44	19.89	20.3	20.78	10.76	11.04
		Amps	46.88	46.88	46.88	23.44	46.88	23.44	49.93	50.08	50	26.54	26.56
		Maximum Size of Fuse or Breaker	70	70	70	35	70	30	60	60	60	30	30
M113073	Load	kVA	22.52	25.55	22.52	12.67	25.98	11.26	26.52	27.06	27.71	14.34	14.72
		Amps	62.5	62.5	62.5	31.25	62.5	31.25	66.58	66.67	66.67	35.39	35.42
		Maximum Size of Fuse or Breaker	90	90	90	45	90	35	80	80	80	40	40
M113074	Load	kVA	33.77	38.32	33.77	19	38.97	16.89	39.87	40.59	41.57	21.52	22.08
		Amps	93.75	93.75	93.75	46.88	93.75	46.88	99.86	100.16	100	53.08	53.13
		Maximum Size of Fuse or Breaker	150	150	125	70	125	60	125	125	125	60	60
M113075	Load	kVA	45.03	51.1	45.03	25.33	51.96	22.52	53.04	54.13	55.43	28.69	29.44
		Amps	125	125	125	62.5	125	62.5	133.15	133.55	133.33	70.78	70.83
		Maximum Size of Fuse or Breaker	200	200	175	90	175	70	175	175	175	80	80
M113076	Load	kVA	67.55	76.64	67.55	38	77.94	33.77	79.57	81.19	83.14	43.03	44.17
		Amps	187.5	187.5	187.5	93.75	187.5	93.75	199.73	200.32	200	106.17	106.25
		Maximum Size of Fuse or Breaker	300	300	250	150	250	110	250	250	250	125	125
M113077	Load	kVA	112.58	127.74	112.58	63.33	129.9	56.29	132.61	135.32	138.56	71.72	73.5
		Amps	312.5	312.5	312.5	156.25	312.5	156.25	332.88	333.87	333.33	176.95	176.8
		Maximum Size of Fuse or Breaker	450	450	450	225	450	175	400	400	400	200	200
M213078	Load	kVA	166.87	191.61	166.87	94.99	194.86	84.44	198.92	202.97	207.85	107.58	110.42
		Amps	468.75	468.75	468.75	234.38	468.75	234.38	499.32	500.8	500	265.42	265.63
		Maximum Size of Fuse or Breaker	700	700	700	350	700	300	600	600	600	300	300
M213079	Load	kVA	225.17	255.48	225.17	126.66	259.81	112.58	265.22	270.63	277.13	143.44	147.22
		Amps	625	625	625	312.5	625	312.5	665.76	667.74	666.67	353.9	354.17
		Maximum Size of Fuse or Breaker	1000	1000	1000	450	1000	350	800	800	800	400	400
Quantity Required			3	3	2	2	2	2	2	2	2	2	
Connection Diagrams			A-A	A-A	G-G	B-B	G-G	D-D	C-C	C-C	C-C	E-E	E-E

NOTE: Inputs and Outputs may be reversed; KVA capacity remains constant. All applications above bold face line are suitable for 50/60 Hz. All Applications below bold face line are suitable for 60 Hz only.



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SELECTION TABLES

BUCK-BOOST TRANSFORMERS

Three Phase Application			Boosting								Bucking							
Line Voltage (Available)			399Y230	380	430	440	460	460	480	480	440	440	460	460	480	480	500	500
Load Voltage (Output)			480Y277	420	473	462	506	483	528	504	400	419	438	418	457	436	455	477
Catalog Number																		
M181061	Load	kVA	0.86	0.76	0.85	1.66	0.91	1.74	0.95	1.82	0.79	1.58	1.66	0.83	1.73	0.86	0.9	1.8
		Amps	1.04	1.04	1.04	2.08	1.04	2.08	1.04	2.08	1.14	2.18	2.18	1.14	2.18	1.14	1.14	2.18
		Maximum Size of Fuse or Breaker	3	3	3	6	3	6	3	6	3	6	6	3	6	3	3	6
M181062	Load	kVA	1.73	1.51	1.7	3.33	1.82	3.48	1.9	3.63	1.59	3.17	3.31	1.66	3.46	1.73	1.8	3.61
		Amps	2.08	2.08	2.08	4.16	2.08	4.16	2.08	4.16	2.29	4.37	4.37	2.29	4.37	2.29	2.29	4.37
		Maximum Size of Fuse or Breaker	6	6	6	10	6	10	6	10	6	10	10	6	10	6	6	10
M181063	Load	kVA	2.6	2.27	2.56	4.99	2.73	5.22	2.85	5.45	2.38	4.75	4.97	2.48	5.19	2.59	2.7	5.41
		Amps	3.12	3.12	3.12	6.24	3.12	6.25	3.12	6.24	3.43	6.55	6.55	3.43	6.55	3.43	3.43	6.55
		Maximum Size of Fuse or Breaker	10	6	6	15	6	15	6	15	6	15	15	6	15	6	6	15
M181064	Load	kVA	4.33	3.78	4.26	8.32	4.56	8.7	4.76	9.08	3.96	7.92	8.28	4.14	8.64	4.32	4.51	9.02
		Amps	5.2	5.2	5.2	10.4	5.2	10.4	5.2	10.4	5.72	10.92	10.92	5.72	10.92	5.72	5.72	10.92
		Maximum Size of Fuse or Breaker	15	10	10	15	10	15	10	15	10	15	15	10	15	10	10	15
M181065	Load	kVA	8.6	7.56	8.52	16.64	9.11	17.4	9.51	18.16	7.93	15.85	16.57	8.28	17.29	8.64	9.02	18.04
		Amps	10.4	10.4	10.4	20.8	10.4	20.8	10.4	20.8	11.44	21.84	21.84	11.44	21.84	11.44	11.44	21.84
		Maximum Size of Fuse or Breaker	20	15	15	30	15	30	15	30	15	30	30	15	30	15	15	30
M181066	Load	kVA	12.9	11.34	12.77	24.97	13.67	26.1	14.27	27.24	11.89	23.77	24.85	12.42	25.93	12.96	13.52	27.07
		Amps	15.6	15.6	15.6	31.2	15.6	31.2	15.6	31.2	17.16	32.76	32.76	17.16	32.76	17.16	17.16	32.76
		Maximum Size of Fuse or Breaker	25	25	25	45	25	45	25	45	20	40	40	20	40	20	20	40
M137920	Load	kVA	17.3	15.12	17.03	33.29	18.23	34.8	19.02	36.31	15.85	31.7	33.14	16.57	34.57	17.28	18.03	36.09
		Amps	20.8	20.8	20.8	41.6	20.8	41.6	20.8	41.6	22.88	43.68	43.68	22.88	43.68	22.88	22.88	43.68
		Maximum Size of Fuse or Breaker	35	30	30	60	30	60	30	60	30	60	60	30	60	30	30	60
M137921	Load	kVA	25.9	22.69	25.55	49.93	27.34	52.2	28.53	54.47	23.78	47.55	49.71	24.85	51.86	25.92	27.05	54.13
		Amps	31.2	31.2	31.2	62.4	31.2	62.4	31.2	62.4	34.32	65.52	65.52	34.32	65.52	34.32	34.32	65.52
		Maximum Size of Fuse or Breaker	50	45	45	90	45	90	45	90	40	80	80	40	80	40	40	80
M137922	Load	kVA	34.6	30.25	34.07	66.58	36.46	69.6	38.04	72.63	31.7	63.4	66.27	33.13	69.15	34.56	36.06	72.18
		Amps	41.6	41.6	41.6	83.2	41.6	83.2	41.6	83.2	45.76	87.36	87.36	45.76	87.36	45.76	45.76	87.36
		Maximum Size of Fuse or Breaker	70	60	60	110	60	110	60	110	60	110	110	60	110	60	60	110
M137923	Load	kVA	52	45.45	51.18	100.03	54.69	104.57	57.07	109.12	47.63	95.25	99.57	49.77	103.89	51.92	54.18	108.44
		Amps	62.5	62.5	62.5	125	62.5	125	62.5	125	68.75	131.25	131.25	68.75	131.25	68.75	68.75	131.25
		Maximum Size of Fuse or Breaker	100	90	90	175	90	175	90	175	80	175	175	80	175	80	80	175
M137924	Load	kVA	86.1	75.62	85.17	166.44	91.15	174.01	95.11	181.57	79.26	158.5	165.69	82.83	172.87	86.39	90.16	180.44
		Amps	104	104	104	208	104	208	104	208	114.4	218.4	218.4	114.4	218.4	114.4	114.4	218.4
		Maximum Size of Fuse or Breaker	175	150	150	300	150	300	150	300	150	300	300	150	300	150	150	300
M243570	Load	kVA	129.3	113.43	127.75	249.66	136.72	261.01	142.67	272.36	118.89	237.75	248.53	124.24	259.31	129.59	135.23	270.66
		Amps	156	156	156	312	156	312	156	312	171.6	327.6	327.6	171.6	327.6	171.6	171.6	327.6
		Maximum Size of Fuse or Breaker	250	225	225	450	225	450	225	450	200	400	400	200	400	200	200	400
M243571	Load	kVA	173.1	151.25	170.33	332.89	182.29	348.02	190.22	363.15	158.52	317	331.37	165.65	345.75	172.78	180.31	360.88
		Amps	208	208	208	416	208	416	208	416	228.8	436.8	436.8	228.8	436.8	228.8	228.8	436.8
		Maximum Size of Fuse or Breaker	350	300	300	600	300	600	300	600	300	600	600	300	600	300	300	600
Quantity Required			3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Connection Diagrams			F-F	B-B	B-B	G-G	B-B	G-G	B-B	G-G	E-E	C-C	C-C	E-E	C-C	E-E	C-C	

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