

SELECTION CHARTS

SINGLE PHASE

GROUP I



SINGLE PHASE		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
CAT. NO.															
T181047	Load kVA	0.24	0.25	0.48	0.50	0.43	0.48	0.49	0.50	0.52	0.54	0.47	0.50	0.52	1.02
	Amps	2.08	2.08	4.17	4.17	2.08	2.08	2.08	2.08	4.60	4.60	2.28	2.28	2.28	4.37
	Max. Size of Fuse or Breaker	6	6	10	10	6	6	6	6	10	10	6	6	6	10
T181048	Load kVA	0.47	0.50	0.96	1.01	0.87	0.96	0.99	1.01	1.04	1.08	0.95	1.00	1.04	2.04
	Amps	4.17	4.17	8.33	8.33	4.17	4.17	4.17	4.17	9.20	9.20	4.56	4.56	4.58	8.75
	Max. Size of Fuse or Breaker	10	10	15	15	10	10	10	10	15	15	10	10	10	15
T181049	Load kVA	0.71	0.75	1.43	1.51	1.30	1.43	1.48	1.51	1.56	1.62	1.42	1.50	1.56	3.00
	Amps	6.25	6.25	12.50	12.50	6.25	6.25	6.25	6.25	13.80	13.80	6.86	6.86	6.86	13.10
	Max. Size of Fuse or Breaker	15	15	20	20	15	15	15	15	20	20	15	15	15	15
T181050	Load kVA	1.19	1.25	2.40	2.50	2.16	2.39	2.46	2.52	2.60	2.75	2.37	2.50	2.60	5.10
	Amps	10.42	10.40	20.80	20.80	10.40	10.40	10.40	10.40	22.80	22.80	11.40	11.40	11.40	21.80
	Max. Size of Fuse or Breaker	25	25	40	30	15	15	15	15	30	30	15	15	15	30
T181051	Load kVA	2.37	2.50	4.80	5.00	4.33	4.79	4.93	5.04	5.20	5.40	4.47	5.00	5.20	10.20
	Amps	20.83	20.83	41.67	41.67	20.83	20.83	20.83	20.83	46.80	46.80	22.80	22.80	22.80	43.70
	Max. Size of Fuse or Breaker	35	35	60	60	30	30	30	30	60	60	30	30	30	60
T181052	Load kVA	3.56	3.75	7.17	7.56	6.50	7.19	7.41	7.56	7.80	8.15	7.10	7.50	7.80	15.30
	Amps	31.25	31.25	62.50	62.50	31.25	31.25	31.25	31.25	68.50	69.50	34.40	34.40	34.40	65.50
	Max. Size of Fuse or Breaker	50	50	90	90	45	45	45	45	80	80	40	40	40	80
T111683	Load kVA	4.75	5.00	9.58	10.00	8.66	9.58	9.87	10.00	10.40	10.80	9.50	10.00	10.00	20.40
	Amps	41.67	41.67	83.31	83.31	41.67	41.67	41.67	41.67	91.50	91.50	45.80	45.80	45.80	87.50
	Max. Size of Fuse or Breaker	70	70	125	125	60	60	60	60	110	110	60	60	50	110
T111684	Load kVA	7.12	7.50	14.40	15.10	13.00	14.30	14.80	15.10	15.00	16.20	14.24	15.00	15.60	30.60
	Amps	62.50	62.50	125.00	125.00	62.50	62.50	62.50	62.50	138.00	138.00	68.60	68.60	68.60	132.00
	Max. Size of Fuse or Breaker	100	100	175	175	90	90	90	90	150	175	80	80	80	175
T111685	Load kVA	9.50	10.00	19.20	20.20	17.30	19.16	19.70	20.10	20.80	21.60	19.00	20.00	20.30	40.80
	Amps	83.30	83.30	166.60	166.60	83.30	83.30	83.30	83.30	183.00	183.00	91.60	91.60	91.20	175.00
	Max. Size of Fuse or Breaker	125	125	250	250	125	125	125	125	225	225	110	110	110	225
T111686	Load kVA	14.20	15.00	28.80	30.00	26.00	28.70	29.60	30.30	31.20	32.50	28.50	30.00	31.20	61.00
	Amps	125.00	125.00	250.00	250.00	125.00	125.00	125.00	125.00	275.00	275.00	136.80	136.80	136.80	263.00
	Max. Size of Fuse or Breaker	200	200	350	350	175	175	175	175	350	350	175	175	175	350
T111687	Load kVA	23.70	25.00	47.90	50.00	43.30	47.80	49.30	50.30	52.00	54.00	47.40	50.00	52.00	102.00
	Amps	208.00	208.00	416.60	416.60	208.00	208.00	208.00	208.00	457.00	457.00	228.00	228.00	228.00	437.00
	Max. Size of Fuse or Breaker	350	350	600	600	300	300	300	300	600	600	300	300	300	600
T211688 ①	Load kVA	35.60	37.50	71.90	75.60	65.00	71.80	74.00	75.60	78.00	81.00	71.00	76.00	78.00	153.00
	Amps	312.50	312.50	625.00	625.00	312.50	312.50	312.50	312.50	688.00	688.00	344.00	344.00	344.00	655.00
	Max. Size of Fuse or Breaker	500	500	1000	1000	450	450	450	450	800	800	400	400	400	800
T211689 ①	Load kVA	47.50	50.00	95.80	100.00	86.60	95.80	98.70	101.00	104.00	108.00	95.00	100.00	104.00	204.00
	Amps	416.60	416.60	833.30	833.30	416.60	416.60	416.60	416.60	915.00	915.00	458.00	458.00	458.00	875.00
	Max. Size of Fuse or Breaker	700	700	1200	1200	600	600	600	600	1200	1200	600	600	600	1200

See Page 110 For Connection Diagrams

D D C C H H H H F F I I I E

① See chart on page 109, for number of leads per termination.

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.

With larger kVA buck-boost units, it is necessary to utilize multiple conductors on the secondary (X) terminals as shown in the chart on page 109.

SELECTION CHARTS

THREE PHASE

GROUP I



THREE PHASE			BOOSTING						
Line Voltage (Available)			189Y 109	196Y 113	201Y 116	208Y 120	189	208	220
Load Voltage (Output)			208	234	240	230	208	230	242
CAT. NO.									
T181047	Load	kVA	1.50	0.84	0.87	1.66	0.75	0.83	0.87
		Amps	4.17	2.08	2.08	4.17	2.08	2.08	2.08
	Max. Size of Fuse or Breaker		10	6	6	10	6	6	6
T181048	Load	kVA	3.00	1.69	1.73	3.32	1.50	1.66	1.75
		Amps	8.33	4.17	4.17	8.33	4.17	4.17	4.17
	Max. Size of Fuse or Breaker		15	10	10	15	10	10	10
T181049	Load	kVA	4.50	2.53	2.60	4.98	2.25	2.49	2.62
		Amps	12.50	6.25	6.25	12.50	6.25	6.25	6.25
	Max. Size of Fuse or Breaker		20	15	15	20	15	15	15
T181050	Load	kVA	7.51	4.22	4.33	8.30	3.75	4.15	4.37
		Amps	20.83	10.42	10.42	20.83	10.42	10.42	10.42
	Max. Size of Fuse or Breaker		30	20	20	30	15	15	15
T181051	Load	kVA	15.01	8.44	8.66	16.60	7.51	8.30	8.73
		Amps	41.67	20.83	20.83	41.67	20.83	20.83	20.83
	Max. Size of Fuse or Breaker		60	35	35	60	30	30	30
T181052	Load	kVA	22.52	12.67	12.99	24.90	11.26	12.45	13.10
		Amps	62.50	31.25	31.25	62.50	31.25	31.25	31.25
	Max. Size of Fuse or Breaker		90	50	50	90	45	45	45
T111683	Load	kVA	30.02	16.89	17.32	33.20	15.01	16.60	17.46
		Amps	83.33	41.67	41.67	83.33	41.67	41.67	41.67
	Max. Size of Fuse or Breaker		125	70	70	125	60	60	60
T111684	Load	kVA	45.03	25.33	25.98	49.80	22.52	24.90	26.20
		Amps	125.00	62.50	62.50	125.00	62.50	62.50	62.50
	Max. Size of Fuse or Breaker		175	100	100	175	90	90	90
T111685	Load	kVA	60.04	33.77	34.64	66.40	30.02	33.20	34.93
		Amps	166.67	83.33	83.33	167.67	83.33	83.33	83.33
	Max. Size of Fuse or Breaker		250	125	125	250	125	125	125
T111686	Load	kVA	90.07	50.66	51.96	99.59	45.03	49.80	52.39
		Amps	250.00	125.00	125.00	250.00	125.00	125.00	125.00
	Max. Size of Fuse or Breaker		350	200	200	350	175	175	175
T111687	Load	kVA	150.11	84.44	86.60	165.99	75.06	82.99	87.32
		Amps	416.67	208.33	208.33	416.67	208.33	208.33	208.33
	Max. Size of Fuse or Breaker		600	350	350	600	300	300	300
T211688 ^①	Load	kVA	225.17	126.66	129.90	248.98	112.58	124.49	130.99
		Amps	625.00	312.50	312.50	625.00	312.50	312.50	312.50
	Max. Size of Fuse or Breaker		1000	500	500	1000	450	450	450
T211689 ^①	Load	kVA	300.22	168.87	173.21	331.98	150.11	165.99	174.65
		Amps	833.33	416.67	416.67	833.33	416.67	416.67	416.67
	Max. Size of Fuse or Breaker		1200	700	700	1200	600	600	600
Quantity Required			3	3	3	3	2	2	2
See Page 110 For Connection Diagrams			A-A	F-F	F-F	A-A	B-B	B-B	B-B

BUCKING				
219	230	250	255	264
208	208	227	232	240
1.58	0.83	0.90	0.92	0.95
4.39	2.30	2.29	2.29	2.29
10	6	6	6	6
3.16	1.66	1.80	1.84	1.91
8.77	4.61	4.59	4.58	4.58
15	10	10	10	10
4.74	2.49	2.71	2.76	2.86
13.16	6.91	6.88	6.87	6.88
20	15	15	15	15
7.90	4.15	4.51	4.60	4.76
21.94	11.52	11.47	11.45	11.46
30	15	15	15	15
15.80	8.30	9.02	9.20	9.53
43.87	23.04	22.94	22.90	22.92
60	30	30	30	30
23.71	12.45	13.53	13.80	14.29
65.81	34.56	34.42	34.35	34.38
80	40	40	40	40
31.61	16.60	18.04	18.40	19.05
87.74	46.07	45.89	45.80	45.83
110	60	60	60	60
47.41	24.90	27.06	27.60	28.58
131.61	69.11	68.83	68.70	68.75
175	80	80	80	80
63.22	33.20	36.08	36.81	38.11
175.48	92.15	91.78	91.59	91.67
225	110	110	110	110
94.83	49.80	54.13	55.21	57.16
263.22	138.22	137.67	137.39	137.50
350	175	175	175	175
158.05	82.99	90.21	92.02	95.26
438.70	230.37	229.44	228.99	229.17
600	300	300	300	300
237.07	124.49	135.32	138.02	142.89
658.05	345.55	344.16	343.48	343.75
800	400	400	400	400
316.10	165.99	180.42	184.03	190.53
877.40	460.74	458.88	457.97	458.33
1200	600	600	600	600
2	2	2	2	2
C-C	E-E	E-E	E-E	E-E

① See chart on page 109.