

Warehouse Stock Transformers

Buck-Boost

Selection

120 × 240 Volts Primary — 16/32 Volts Secondary, 60 Hz, No Taps, Wall Mounted

Single Phase — Table 3		Boosting								Bucking					
Catalog Number*	Line Voltage (Available)	95	100	105	208	215	215	220	225	135	240	240	245	250	255
Insulating Transformer Rating	Load Voltage (Output)	120	113	119	236	244	229	235	240	120	212	225	230	234	239
050BB1632J .050 kVA	kVA Load Amps	.19 1.56	.36 3.12	.37 3.12	.37 1.56	.38 1.56	.72 3.12	.73 3.12	.73 3.12	.42 3.54	.37 1.77	.75 3.33	.77 3.33	.78 3.33	.80 3.33
100BB1632J .100 kVA	kVA Load Amps	.38 3.13	.72 6.25	.74 6.25	.74 3.13	.76 3.13	1.44 6.25	1.46 6.25	1.50 6.25	.84 7.09	.74 3.54	1.50 6.66	1.54 6.66	1.56 6.66	1.60 6.66
150BB1632J .150 kVA	kVA Load Amps	.56 4.69	1.06 9.38	1.12 9.38	1.12 4.69	1.14 4.69	2.16 9.38	2.20 9.38	2.26 9.38	1.26 10.64	1.10 5.30	2.26 10.02	2.30 10.02	2.34 10.02	2.40 10.02
205BB1632J .250 kVA	kVA Load Amps	.94 7.81	1.78 15.63	1.86 15.63	1.88 7.81	1.91 7.81	3.59 15.63	3.67 15.63	3.75 15.63	2.11 17.71	1.84 8.85	3.75 16.67	3.83 16.67	3.90 16.67	3.98 16.67
505BB1632J .500 kVA	kVA Load Amps	1.88 15.63	3.56 31.25	3.72 31.25	3.75 15.63	3.81 15.63	7.19 31.25	7.34 31.25	7.50 31.25	4.21 35.42	3.68 17.71	7.50 33.33	7.67 33.33	7.80 33.33	7.97 33.33
705BB1632J .750 kVA	kVA Load Amps	2.81 23.44	5.34 46.88	5.58 46.88	5.63 23.44	5.72 23.44	10.78 46.88	11.02 46.88	11.25 46.88	6.32 53.13	5.53 26.56	11.25 50.00	11.50 50.00	11.70 50.00	11.95 50.00
1BB1632J 1.00 kVA	kVA Load Amps	3.75 31.25	7.13 62.50	7.44 62.50	7.50 31.25	7.63 31.25	14.38 62.50	14.69 62.50	15.00 62.50	8.43 70.83	7.37 35.42	15.00 66.67	15.33 66.67	15.60 66.67	15.93 66.67
105BB1632J 1.50 kVA	kVA Load Amps	5.63 43.90	10.69 93.80	11.16 93.80	11.25 46.90	11.44 46.90	21.56 93.80	22.03 93.80	22.50 93.80	12.64 106.30	11.05 53.10	22.50 100.00	23.00 100.00	23.40 100.00	23.90 100.00
2BB1632J 2.00 kVA	kVA Load Amps	7.50 62.50	14.25 125.00	14.88 125.00	15.00 62.50	15.25 62.50	28.75 125.00	29.38 125.00	30.00 125.00	16.86 141.70	14.73 70.80	30.00 133.30	30.67 133.30	31.20 133.30	31.87 133.30
3BB1632J 3.00 kVA	kVA Load Amps	11.25 93.80	21.38 187.50	22.31 187.50	22.50 93.80	22.88 93.80	43.13 187.50	44.06 187.50	45.00 187.50	25.29 212.50	22.10 106.30	45.00 200.00	46.00 200.00	46.80 200.00	47.80 200.00
5BB1632J 5.00 kVA	kVA Load Amps	18.75 156.30	35.63 312.50	37.19 312.50	37.50 156.30	38.13 156.30	71.88 312.50	73.44 312.50	75.00 312.50	42.15 354.20	36.83 177.10	75.00 333.30	76.67 333.30	78.00 333.30	79.67 333.30
Connection Diagram (pg. 8-25)		2	1	1	4	4	3	3	3	1	4	3	3	3	3

Three Phase — Table 4		Boosting					Bucking							
Catalog Number*	Line Voltage (Available)	183Y/ 106	208Y/ 120	195	208	225	240	245	250	256	265	272		
Insulating Transformer Rating	Load Voltage (Output)	208Y/ 120	236Y/ 136	208	236	240	208	230	234	240	234	240		
050BB1632J .050 kVA	kVA Load Amps	1.13 3.13	1.28 3.13	1.13 3.13	.62 1.56	1.30 3.13	.56 1.56	1.33 3.34	1.35 3.34	1.39 3.34	.72 1.77	.74 1.77		
100BB1632J .100 kVA	kVA Load Amps	2.25 6.25	2.55 6.25	2.25 6.25	1.30 3.13	2.60 6.25	1.13 3.13	2.66 6.67	2.70 6.67	2.77 6.67	1.44 3.55	1.48 3.55		
150BB1632J .150 kVA	kVA Load Amps	3.38 9.38	3.83 9.38	3.38 9.38	1.95 4.69	3.90 9.38	1.69 4.69	3.98 10.00	4.05 10.00	4.16 10.00	2.15 5.31	2.21 5.31		
205BB1632J .250 kVA	kVA Load Amps	5.63 15.63	6.39 15.63	5.63 15.63	3.17 7.81	6.50 15.63	2.81 7.81	6.64 16.67	6.76 16.67	6.93 16.67	3.59 8.85	3.68 8.85		
505BB1632J .500 kVA	kVA Load Amps	11.26 31.25	12.77 31.26	11.26 31.25	6.33 15.63	12.99 31.25	5.63 15.63	13.28 33.33	13.50 33.33	13.86 33.33	7.17 17.69	7.36 17.71		
705BB1632J .750 kVA	kVA Load Amps	16.89 46.88	19.16 46.88	16.89 46.88	9.50 23.44	19.49 46.88	8.44 23.44	19.92 50.00	20.26 50.00	20.78 50.00	10.76 26.54	11.04 26.56		
1BB1632J 1.00 kVA	kVA Load Amps	22.52 62.50	25.55 62.50	22.52 62.50	12.67 31.25	25.98 62.50	11.26 31.25	26.56 66.67	27.02 66.67	27.71 66.67	14.34 35.39	14.72 35.42		
105BB1632J 1.50 kVA	kVA Load Amps	33.77 93.75	38.32 93.75	33.77 93.75	19.00 46.88	38.97 93.75	16.89 46.88	39.84 100.00	40.53 100.00	41.57 100.00	21.52 53.08	22.08 53.13		
2BB1632J 2.00 kVA	kVA Load Amps	45.03 125.00	51.10 125.00	46.03 125.00	25.33 62.50	51.96 125.00	22.52 62.50	53.11 133.33	54.04 133.33	55.43 133.33	28.69 70.78	29.44 70.83		
3BB1632J 3.00 kVA	kVA Load Amps	67.55 187.50	76.64 187.50	67.55 187.50	38.00 93.75	77.94 187.50	33.77 93.75	79.67 200.00	81.06 200.00	83.14 200.00	43.03 106.17	44.17 106.25		
5BB1632J 5.00 kVA	kVA Load Amps	112.58 312.50	127.74 312.50	112.58 312.50	63.33 156.25	129.90 312.50	56.29 156.25	132.79 333.33	135.09 333.33	138.56 333.33	71.72 176.95	73.61 177.08		
Quantity Required		3	3	2	2	2	2	2	2	2	2	2		
Connection Diagram (pg. 8-25)		5	5	11	12	11	12	11	11	11	12	12		

* All Buck-Boost transformers listed are available for immediate shipment.

• Output voltage for lower input voltage can be found by:

$$\frac{\text{Rated Output Voltage}}{\text{Rated Input Voltage}} \times \text{Input Actual Voltage} = \text{Output New Voltage}$$

• Output kVA available at reduced input voltage can be found by:

$$\frac{\text{Actual Input Voltage}}{\text{Rated Input Voltage}} \times \text{Output kVA} = \text{New kVA Rating}$$

• Inputs and outputs may be reversed without affecting kVA capacity. See note on page 8-25.