



XFMR DIRECT

TX-BB-411Y-440Y.254-100KVA

Buck-Boost Transformer Specification Sheet

Electrical and physical specifications

Supply configuration	3-Phase Wye
Input voltage	411 V
Nominal output voltage	440 V
Calculated output at stated input	438.40 V
Rated continuous output current	131.22 A
Approx. input current at rated load	139.968 A
Capacity at calculated output	99.63 kVA
Connection diagram	L2
Base transformer part	TX-B3-025K-124210
Number of base transformers	3
Rating of each base	2500 VA
Base primary / secondary windings	120/240 V / 16/32 V
Dimensions per enclosure (W x D x H)	7.68 x 6.38 x 12.2 in
Weight per enclosure	52 lb
Total base-transformer weight	156 lb
Winding / enclosure	Aluminum / NEMA 3R
Rated frequency	50/60 Hz

Installation and rating notes

Use the connection sheet with this exact base construction. Do not select wiring by voltage alone.

Nominal output is an application label. Actual output varies with supply voltage and load.

The current limit shown above governs; the ordering SKU is retained for traceability.

Confirm equipment current, motor starting requirements and duty before installation.

A supply neutral is required and must be carried through. These connections do not create a neutral.

Installation must be performed by qualified personnel. Disconnect and verify absence of power.

Diagram L2 | 411 V input to 440 V nominal output

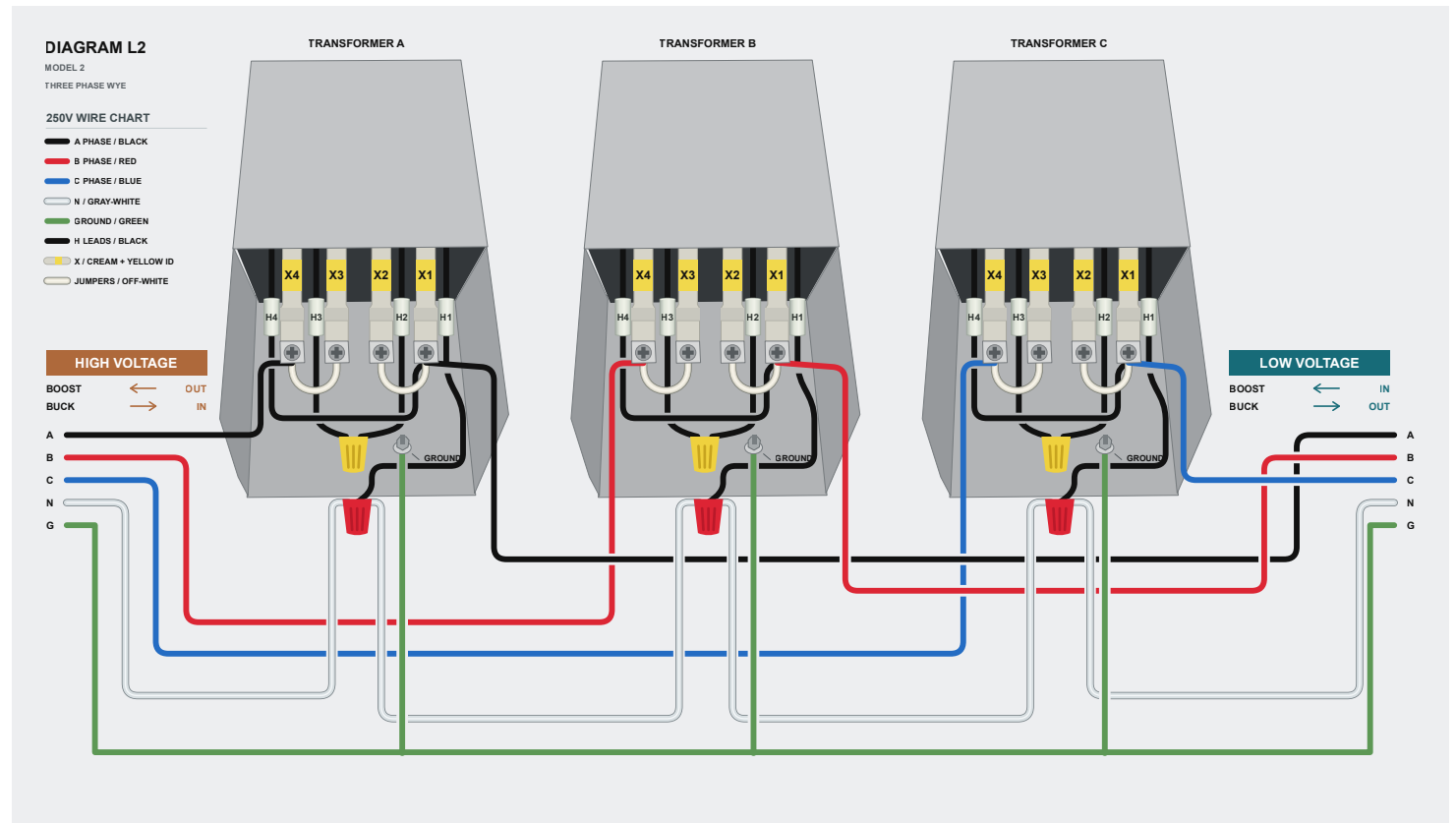
Three phase wye | Primary series / secondary parallel | Boost

Continuous output rating: 131.22 A | Calculated output: 438.40 V

1. Join X4 and X3 on each unit.
2. Join X2 and X1 on each unit.
3. Connect 440 V OUTPUT A to X4 and X3 on Unit 1.
4. Connect 440 V OUTPUT B to X4 and X3 on Unit 2.
5. Connect 440 V OUTPUT C to X4 and X3 on Unit 3.
6. Connect 411 V INPUT A to X1 and H4 and X2 on Unit 1.
7. Connect 411 V INPUT B to X1 and H4 and X2 on Unit 2.
8. Connect 411 V INPUT C to X1 and H4 and X2 on Unit 3.
9. Join H2 and H3 on each unit.
10. Connect INPUT and OUTPUT N to H1 on Unit 1.
11. Bridge N connections between all units.

BASE: 3 x TX-B3-025K-124210 | 2500 VA each

Use this diagram only with 120/240 V primary / 16/32 V secondary.



Drawing: LOW VOLTAGE = 411 V INPUT; HIGH VOLTAGE = 440 V OUTPUT.

Disconnect power and verify de-energized before wiring. Bond every enclosure to equipment ground.

Follow the terminal identifiers shown; H2/H3 and X2/X3 differ from some other manufacturers.

Verify input and all output voltages before connecting the load. No circuit isolation is provided.

A supply neutral is required and must be carried through; no neutral is created.