



XFMR DIRECT

TX-BB-450Y-480Y.277-90KW

Buck-Boost Transformer Specification Sheet

Electrical and physical specifications

Supply configuration	3-Phase Wye
Input voltage	450 V
Nominal output voltage	480 V
Calculated output at stated input	472.50 V
Rated continuous output current	120.28 A
Approx. input current at rated load	126.294 A
Capacity at calculated output	98.43 kVA
Connection diagram	L2
Base transformer part	TX-B3-030K-115216
Number of base transformers	3
Rating of each base	3000 VA
Base primary / secondary windings	240/480 V / 24/48 V
Dimensions per enclosure (W x D x H)	7.68 x 6.38 x 12.2 in
Weight per enclosure	68 lb
Total base-transformer weight	204 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 | 450 V input to 480 V nominal output

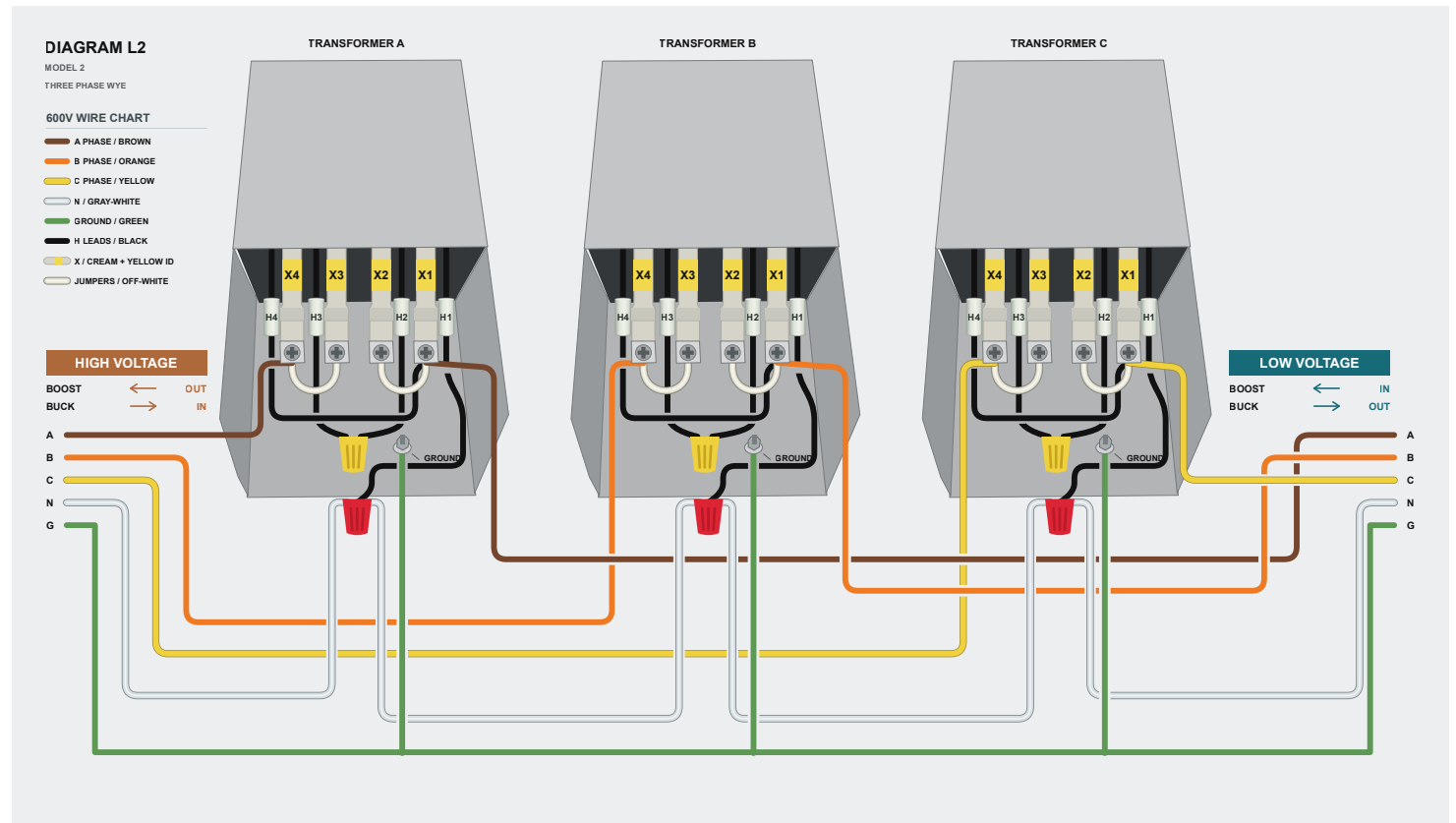
Three phase wye | Primary series / secondary parallel | Boost

Continuous output rating: 120.28 A | Calculated output: 472.50 V

1. Join X4 and X3 on each unit.
2. Join X2 and X1 on each unit.
3. Connect 480 V OUTPUT A to X4 and X3 on Unit 1.
4. Connect 480 V OUTPUT B to X4 and X3 on Unit 2.
5. Connect 480 V OUTPUT C to X4 and X3 on Unit 3.
6. Connect 450 V INPUT A to X1 and H4 and X2 on Unit 1.
7. Connect 450 V INPUT B to X1 and H4 and X2 on Unit 2.
8. Connect 450 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-B3-030K-115216 | 3000 VA each

Use this diagram only with 240/480 V primary / 24/48 V secondary.



Drawing: LOW VOLTAGE = 450 V INPUT; HIGH VOLTAGE = 480 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.