



Summary

Single-phase buck-boost transformer. Steps down 248V to 236V at 50 amps continuous output. 11.8 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 248V building supply to 236V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 236V that is installed on a 248V system experiencing overvoltage.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 50-amp buck-boost transformer is significantly smaller and lighter than a 50-amp isolation transformer. The encapsulated core construction eliminates audible hum and provides stable thermal performance under continuous duty.

Features a removable wiring compartment door, removable knockout plate, and six NPT knockouts for flexible conduit entry. Surface mounting bracket for easy wall mount installations.



TX-BB-248V-236V-50A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	11.8 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	248V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	47.60A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	236V	Termination Access	(6) 3/4" NPT Hubs
Secondary Amperage	50A	Winding Material	Aluminum
Maximum Primary OCP	60A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	22 lbs
Temperature Rise	115°C	Dimensions	5.43"-W x 4.49"-D x 10.08"-H

Ratings & Certifications

- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



Common Applications

- HVAC & Minisplit
- Loads CNC Machines
- Pump Stations
- Packaging Machines
- Commercial Kitchen Equipment
- Motor Loads
- EV Chargers
- Server Racks & IT Equipment
- Refrigeration & Walk-in
- Coolers Fans & Blowers
- Conveyor Systems
- Overhead Doors

Important: Buck-boost transformers applied as autotransformers do not provide circuit isolation and do not create a neutral. Contact us if your application requires isolation or neutral creation.



Technical drawing of a 19-inch rackmount patch panel, showing three views: Front View, Side View, and Bottom View. All dimensions are in inches.

Front View: The panel is 5.43" wide and 10.08" high. It features three RJ45 ports at the top, each 1.12" apart, with a total width of 2.95". The panel has a 6.14" wide top section and a 5.43" wide bottom section. A ground hole is located 1.18" from the bottom edge and 1.63" from the right edge. The bottom edge has a 0.86" wide section and a 1.95" wide section.

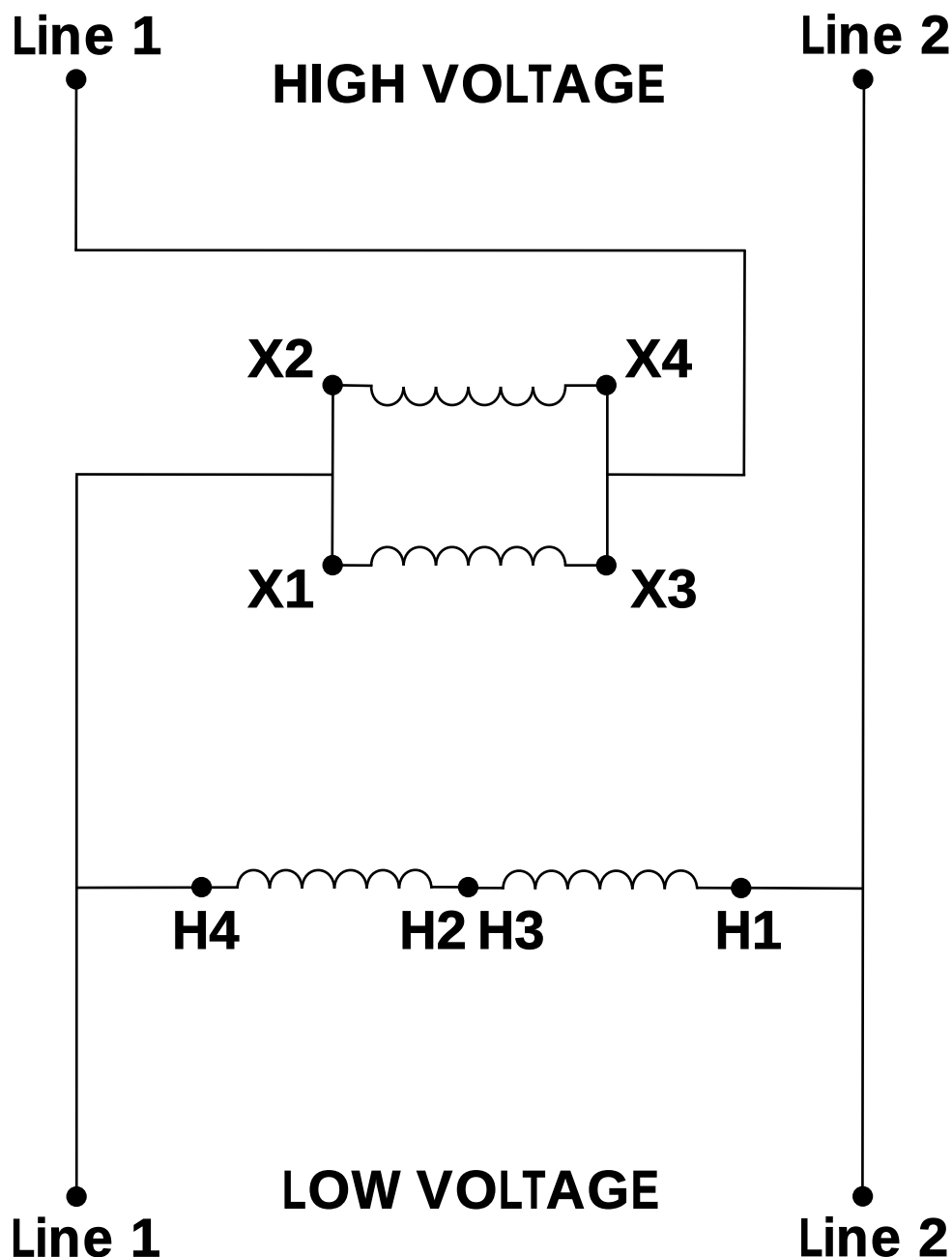
Side View: The panel is 6.14" high and 12.21" deep. It shows a (1) 3/4" NPT Knockout Per Side. The knockout is located 1.97" from the top edge and 1.57" from the bottom edge. The panel has a 4.25" wide top section and a 4.49" wide bottom section. The bottom edge has a 0.39" wide section and a 0.08" wide section.

Bottom View: The panel is 5.43" wide and 4.45" high. It features four 3/4" NPT knockouts arranged in a 2x2 grid. The knockouts are 1.1" apart horizontally and 2.52" apart vertically. The panel has a 3.23" wide section and a 0.95" wide section.

Connection Guide

1. Connect **X4** and **X3** together
2. Connect **X2** and **X1** together
3. Connect High Voltage **L1** to **X4**, **X3**
4. Connect Low Voltage **L1** to **X1**, **X2**, **H4**
5. Connect **H3** and **H2** together
6. Connect High & Low Voltage **L2** to **H1**

DIAGRAM C2





Part # — TX-BB-248V-236V-50A

Buck-Boost Transformer Specification Sheet

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TX-BB-248V-236V-50A — NEMA 3R Encapsulated, cETLus Listed



Base Knockouts — (4) ¾" NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core