

Summary

Single-phase buck-boost transformer. Steps up 200V to 220V at 100 amps continuous output. 22 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 200V building supply to 220V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 220V that is installed on a 200V system.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 100-amp buck-boost transformer is significantly smaller and lighter than a 100-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-200V-220V-100A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	22 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	200V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	110.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	220V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	100A	Winding Material	Aluminum
Maximum Primary OCP	150A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	52 lbs
Temperature Rise	115°C	Dimensions	7.68"-W x 6.38"-D x 12.2"-H

Ratings & Certifications

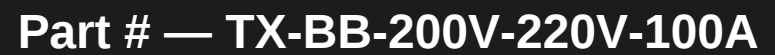
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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 the Bottom (Underside) Plate, showing three views: Front View, Side View, and Top View.

Front View: Dimensions include 12.21" (total width), 8.27" (total height), 6.58" (top section width), 2.95" (top section height), 1.14" (top section width segments), 1.26" (top section height segment), 0.86" (bottom section height segment), 1.95" (bottom section width segment), 7.68" (bottom section width), 1.18" (bottom section height segment), and a Ground hole with a diameter of 0.2".

Side View: Dimensions include 14.36" (total width), 12.21" (total height), 6.38" (base width), 4.6" (base height), 1.38" (hole width), 0.08" (hole height), 0.89" (hole width segment), 0.79" (base width segment), 1.57" (hole width segment), 1.67" (hole width segment), and (1) 3/4" NPT Knockout Per Side.

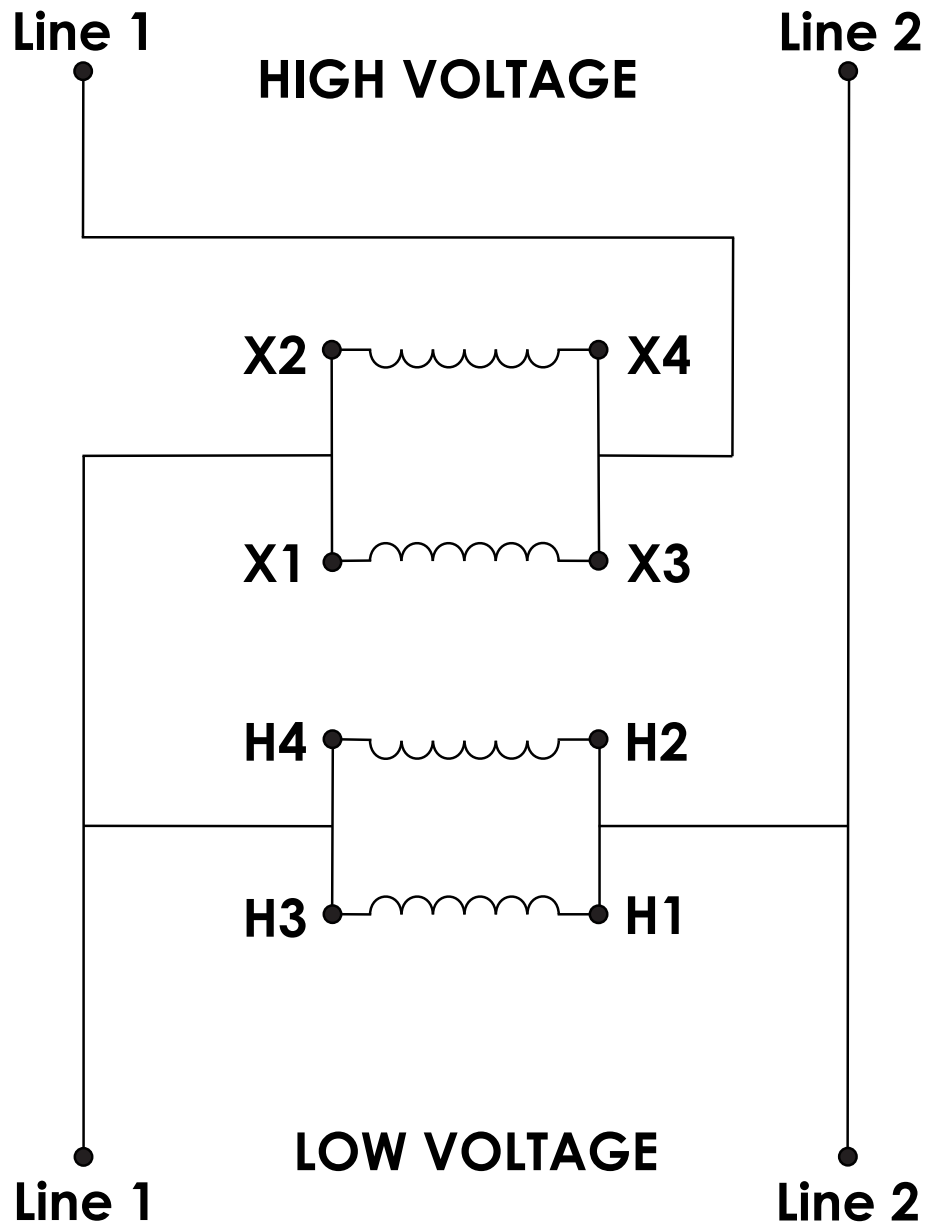
Top View: Dimensions include 7.68" (total width), 6.38" (total height), 5.35" (inner width), 1.16" (inner width segment), 4.41" (inner height segment), 0.95" (inner height segment), and (4) 3/4" NPT Knockouts.

Bottom (Underside) Plate: The plate is labeled as such at the bottom.

Connection Guide

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

DIAGRAM A2





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Base Knockouts — (4) ¾" NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core