

Summary

Single-phase buck-boost transformer. Steps up 200V to 208V at 57.69 amps continuous output. 12 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 200V building supply to 208V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 208V 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 57.69-amp buck-boost transformer is significantly smaller and lighter than a 57.69-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-208V-12KVA — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	12 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	200V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	60.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	208V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	57.69A	Winding Material	Aluminum
Maximum Primary OCP	80A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	17 lbs
Temperature Rise	115°C	Dimensions	4.65"-W x 3.86"-D x 9.25"-H

Ratings & Certifications

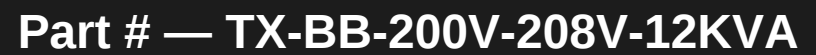
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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: Top, Front, and Bottom.

Top View:

- Overall dimensions: 4.77" (width) x 5.32" (height) and 4.65" (width) x 9.25" (height).
- Top features: Two 1/2" NPT knockouts, 3.15" apart, centered 1.97" from the top edge. 0.82" offset from the left edge.
- Right side features: Ground hole (Ø 0.2"), 3.01" from the left edge and 1.18" from the bottom edge. 1.63" from the right edge.
- Bottom features: 1/2" NPT knockout, 1.95" from the left edge and 0.86" from the bottom edge.

Front View:

- Overall dimensions: 10.97" (width) x 3.94" (height) and 9.25" (width) x 3.86" (height).
- Right side features: 1/2" NPT knockout, 1.89" from the left edge and 1.57" from the bottom edge.
- Bottom features: 1/2" NPT knockout, 2.05" from the left edge and 0.08" from the bottom edge.

Bottom View:

- Overall dimensions: 4.65" (width) x 3.86" (height) and 2.09" (width) x 0.98" (height).
- Four 1/2" NPT knockouts arranged in a 2x2 grid.
- Dimensions: 1.16" from the left edge to the first knockout, 2.32" between knockouts, and 2.09" from the left edge to the second knockout.

Connection Guide

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

DIAGRAM D2





TX-BB-200V-208V-12KVA — 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