



Summary

Single-phase buck-boost transformer. Steps down 240V to 200V at 60 amps continuous output. 12 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 240V building supply to 200V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 200V that is installed on a 240V 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 60-amp buck-boost transformer is significantly smaller and lighter than a 60-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-240V-200V-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	240V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	50.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	200V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	60A	Winding Material	Aluminum
Maximum Primary OCP	70A	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

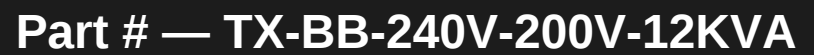
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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: Top, Front, and Bottom.

Top View:

- Overall dimensions: 12.21" (width) x 8.27" (height).
- Top edge features: Two rows of circular features. The top row has a width of 6.58" and a spacing of 2.95" between features. The bottom row has a width of 6.58" and a spacing of 2.95" between features. The distance between the two rows is 1.14".
- Right edge features: A ground hole with a diameter of $\varnothing 0.2"$ and a distance of 1.18" from the right edge. A mounting tab with a width of 1.95" and a height of 0.86" is located at the bottom right corner.

Front View:

- Overall dimensions: 14.36" (width) x 12.21" (height).
- Top edge features: A row of circular features with a width of 6.58" and a spacing of 2.95" between features. The distance from the top edge to the first row is 1.14".
- Right edge features: A ground hole with a diameter of $\varnothing 0.2"$ and a distance of 1.18" from the right edge. A mounting tab with a width of 1.95" and a height of 0.86" is located at the bottom right corner.

Bottom View:

- Overall dimensions: 7.68" (width) x 6.38" (height).
- Four circular features are located at the corners, with a diameter of $\varnothing 0.2"$.
- Dimensions: 1.16" (width of the top row of features), 5.35" (width of the bottom row of features), 0.95" (height of the top row of features), and 4.41" (height of the bottom row of features).

Labels:

- (1) 3/4" NPT Knockout Per Side
- (4) 3/4" NPT Knockouts
- Ground hole
- M3

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





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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