

Summary

Single-phase buck-boost transformer. Steps down 247V to 206V at 58.25 amps continuous output. 12 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 247V building supply to 206V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 206V that is installed on a 247V 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 58.25-amp buck-boost transformer is significantly smaller and lighter than a 58.25-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-247V-206V-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	247V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	48.58A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	206V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	58.25A	Winding Material	Aluminum
Maximum Primary OCP	60A	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

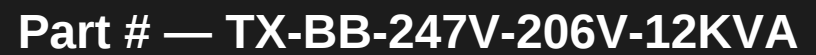
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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:

- Overall Width: 6.58"
- Overall Height: 12.21"
- Top Section Width: 2.95"
- Top Section Height: 1.26"
- Top Section Spacing: 1.14" (between knockouts)
- Ground Hole: $\varnothing 0.2"$
- Ground Hole Position: 1.18" from right edge, 1.95" from bottom edge
- Bottom Section Width: 7.68"
- Bottom Section Height: 0.96"

Side View Dimensions:

- Overall Height: 14.36"
- Overall Width: 6.38"
- Top Section Height: 4.25"
- Top Section Width: 1.57"
- Top Section Spacing: 1.67"
- Top Section Knockout: (1) 3/4" NPT Knockout Per Side
- Bottom Section Height: 0.79"
- Bottom Section Width: 4.6"
- Bottom Section Spacing: 0.08"
- Bottom Section Knockout: M3

Top View Dimensions:

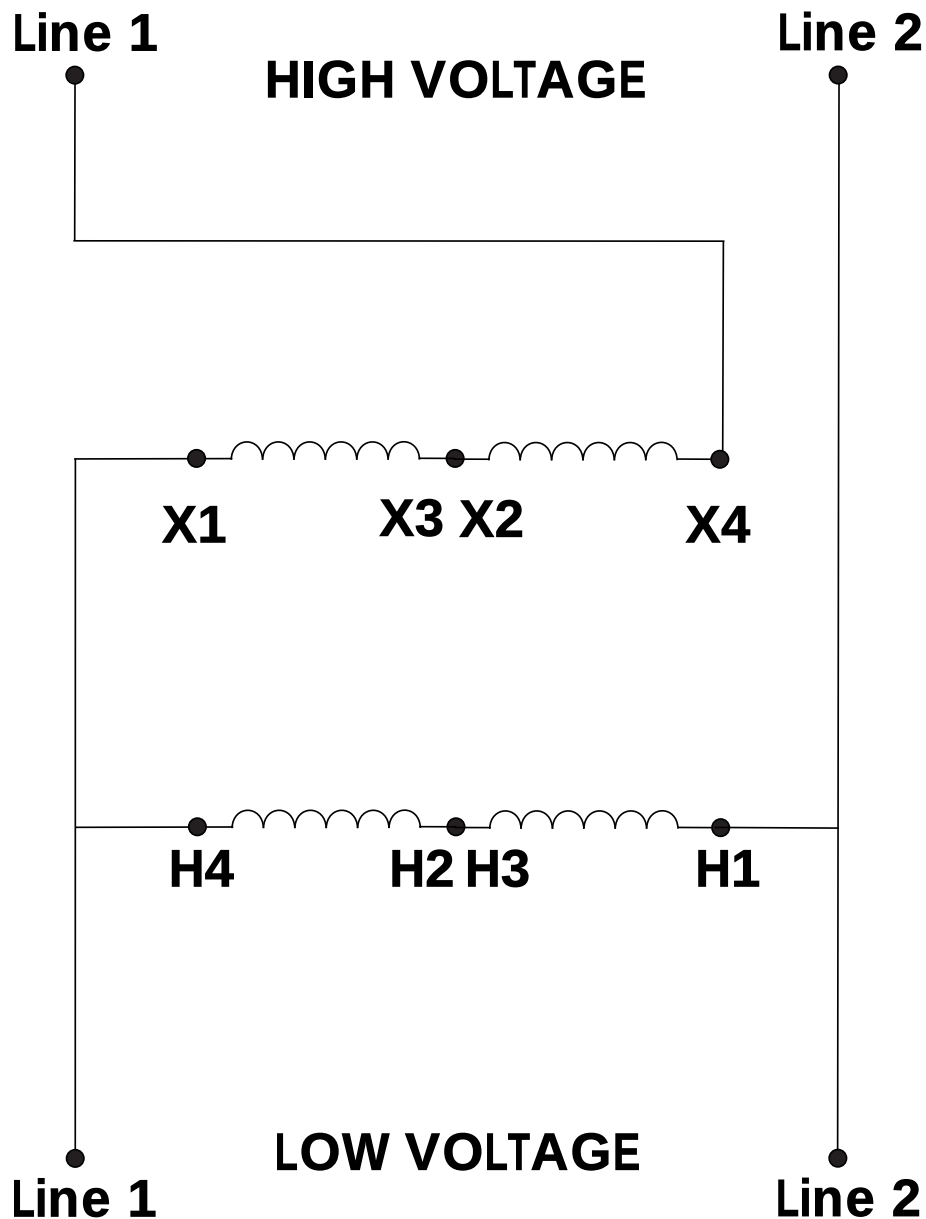
- Overall Width: 7.68"
- Overall Height: 6.38"
- Top Section Width: 5.35"
- Top Section Height: 1.16"
- Top Section Spacing: 0.95"
- Top Section Knockouts: (4) 3/4" NPT Knockouts
- Bottom Section Width: 4.41"
- Bottom Section Height: 0.95"

Bottom (Underside) Plate

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