



Summary

Single-phase buck-boost transformer. Steps down 277V to 231V at 10 amps continuous output. 2.31 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 277V building supply to 231V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 231V that is installed on a 277V 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 10-amp buck-boost transformer is significantly smaller and lighter than a 10-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-277V-231V-10A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	2.31 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	277V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	8.34A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	231V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	10A	Winding Material	Aluminum
Maximum Primary OCP	15A	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

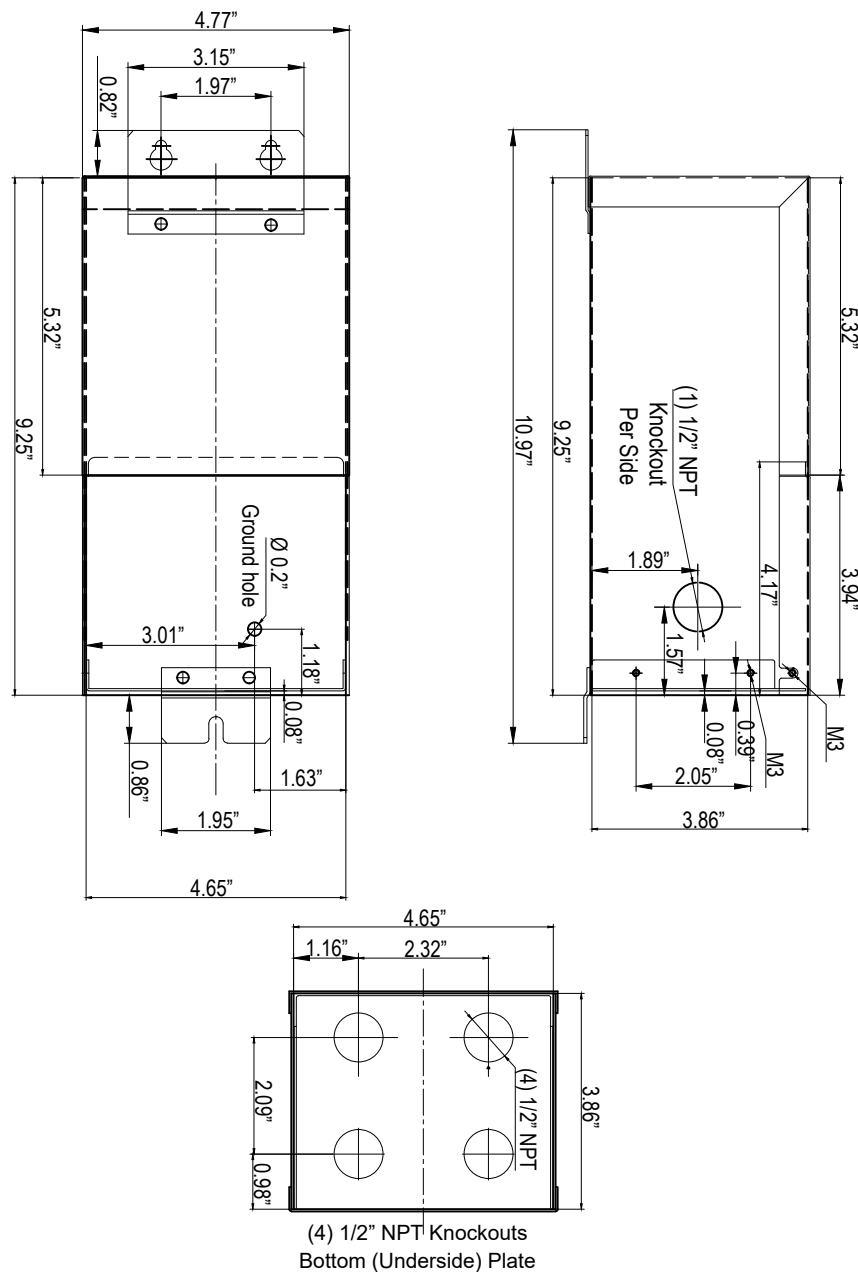


Common Applications

- 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.

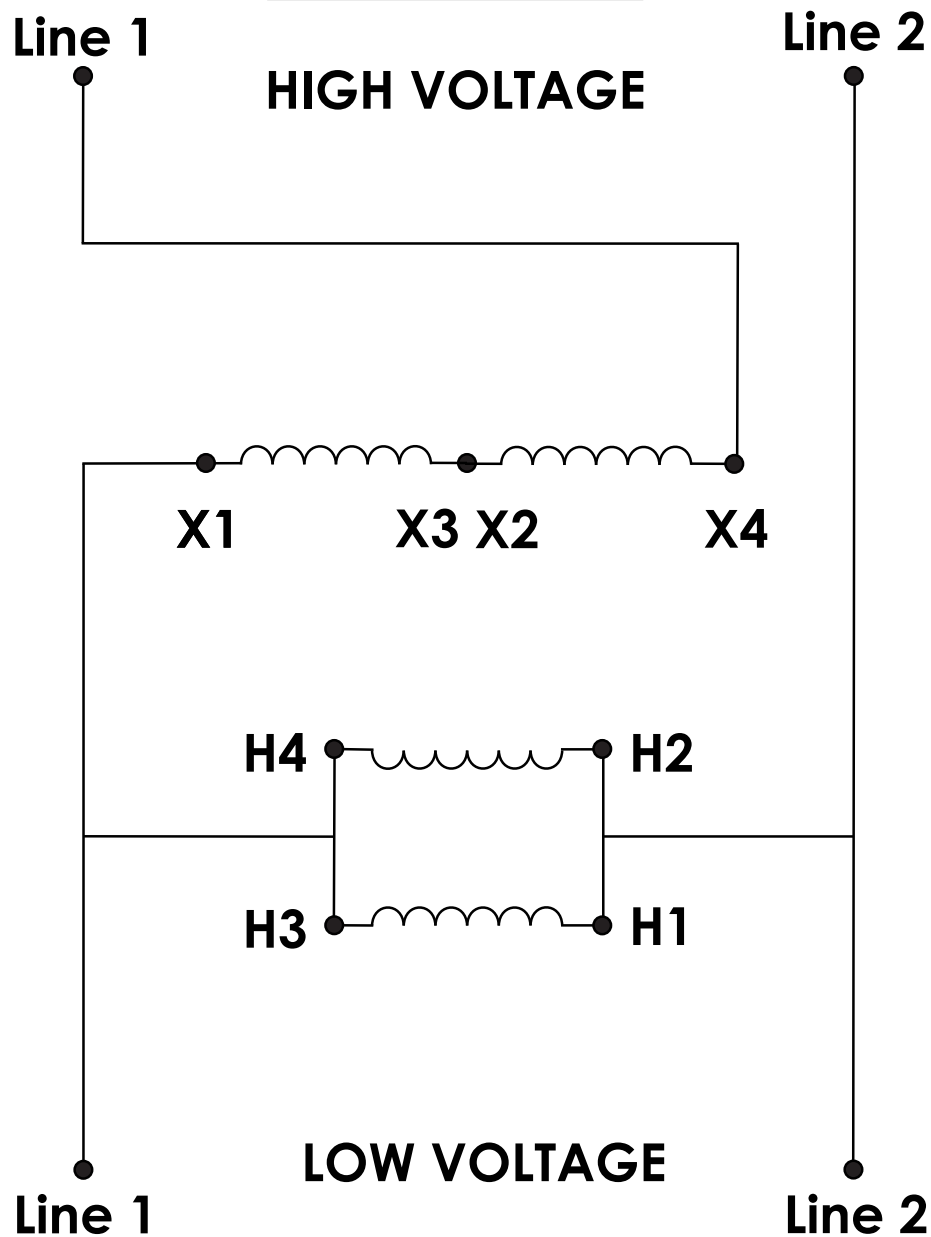
Dimensions



Connection Guide

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

DIAGRAM B2





Part # — TX-BB-277V-231V-10A

Buck-Boost Transformer Specification Sheet

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TX-BB-277V-231V-10A — 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