

Summary

Single-phase buck-boost transformer. Steps down 276V to 240V at 63.9 amps continuous output. 15.34 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 276V building supply to 240V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 240V that is installed on a 276V 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 63.9-amp buck-boost transformer is significantly smaller and lighter than a 63.9-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-276V-240V-64A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	15.34 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	276V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	55.60A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	240V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	63.9A	Winding Material	Aluminum
Maximum Primary OCP	70A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	42 lbs
Temperature Rise	115°C	Dimensions	7.68 x 6.38 x 11.02

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 a 19-inch rackmount chassis, showing three views: Front View, Side View, and Bottom View.

Front View:

- Overall width: 11.02"
- Overall height: 7.09"
- Top section width: 6.58"
- Top section height: 1.28"
- Top section width segments: 1.14", 2.95", 1.14"
- Bottom section width: 7.68"
- Bottom section height: 1.18"
- Ground hole: $\varnothing 0.2$ "
- Bottom section width segments: 0.86", 1.95", 0.08"

Side View:

- Overall width: 13.18"
- Overall height: 11.02"
- Top section height: 4.25"
- Bottom section height: 0.79"
- Bottom section width: 6.38"
- Bottom section width segments: 0.79", 4.6", 0.08", 0.39", 0.08"
- Knockout: (1) 3/4" NPT Knockout Per Side
- Knockout diameter: 1.97"
- Knockout offset: 1.57"
- Mounting holes: M3

Bottom View:

- Overall width: 7.68"
- Overall height: 6.38"
- Top section width: 5.35"
- Top section width segments: 1.16", 4.19"
- Bottom section height: 4.41"
- Bottom section height segments: 0.95", 4.41"
- Knockouts: (4) 3/4" NPT Knockouts

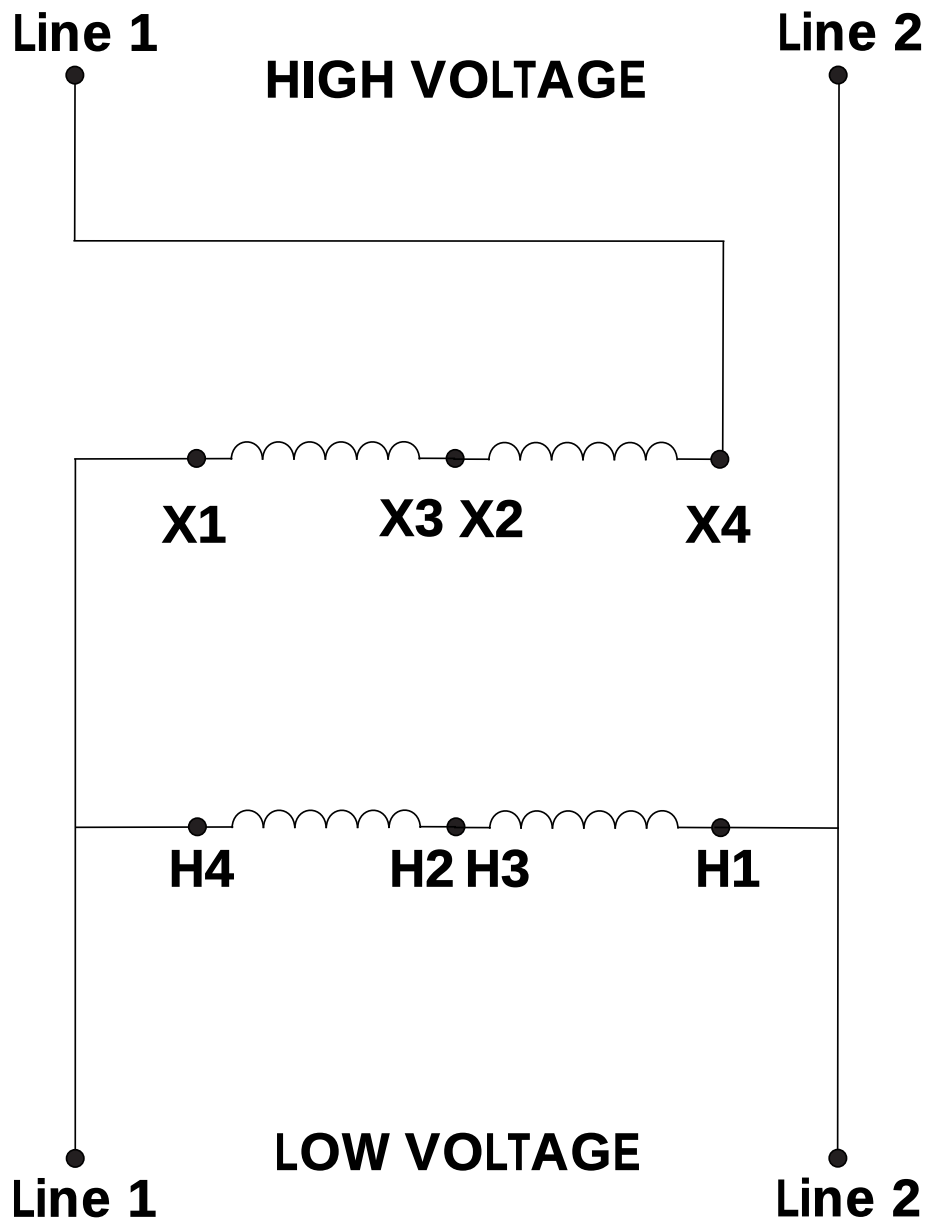
Labels:

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

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