

Summary

Single-phase buck-boost transformer. Steps down 264V to 240V at 68.7 amps continuous output. 16.5 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 264V 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 264V 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 68.7-amp buck-boost transformer is significantly smaller and lighter than a 68.7-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-264V-240V-69A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	16.5 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	264V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	62.50A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	240V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	68.7A	Winding Material	Aluminum
Maximum Primary OCP	80A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	34 lbs
Temperature Rise	115°C	Dimensions	5.43"-W x 4.49"-D x 10.87"-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 of a 1000W, 12VDC power supply. The drawing includes three views: a top view, a side view, and a bottom view.

Top View: Shows a rectangular plate with overall dimensions of 5.43" (width) by 6.93" (height). It features three mounting holes (Ø0.2") spaced 1.12" apart, with a total width of 2.95". The distance from the top edge to the first hole is 1.23". The distance from the bottom edge to the first hole is 0.86". The distance from the left edge to the first hole is 1.95". The distance from the right edge to the first hole is 1.63". A ground hole (Ø0.2") is located 1.18" from the right edge and 0.08" from the bottom edge. A ground terminal (M3) is located 1.57" from the right edge and 1.97" from the bottom edge.

Side View: Shows the plate's height of 10.87" and a width of 4.25". It includes a 13" dimension for the mounting holes and a 4.49" dimension for the ground terminal.

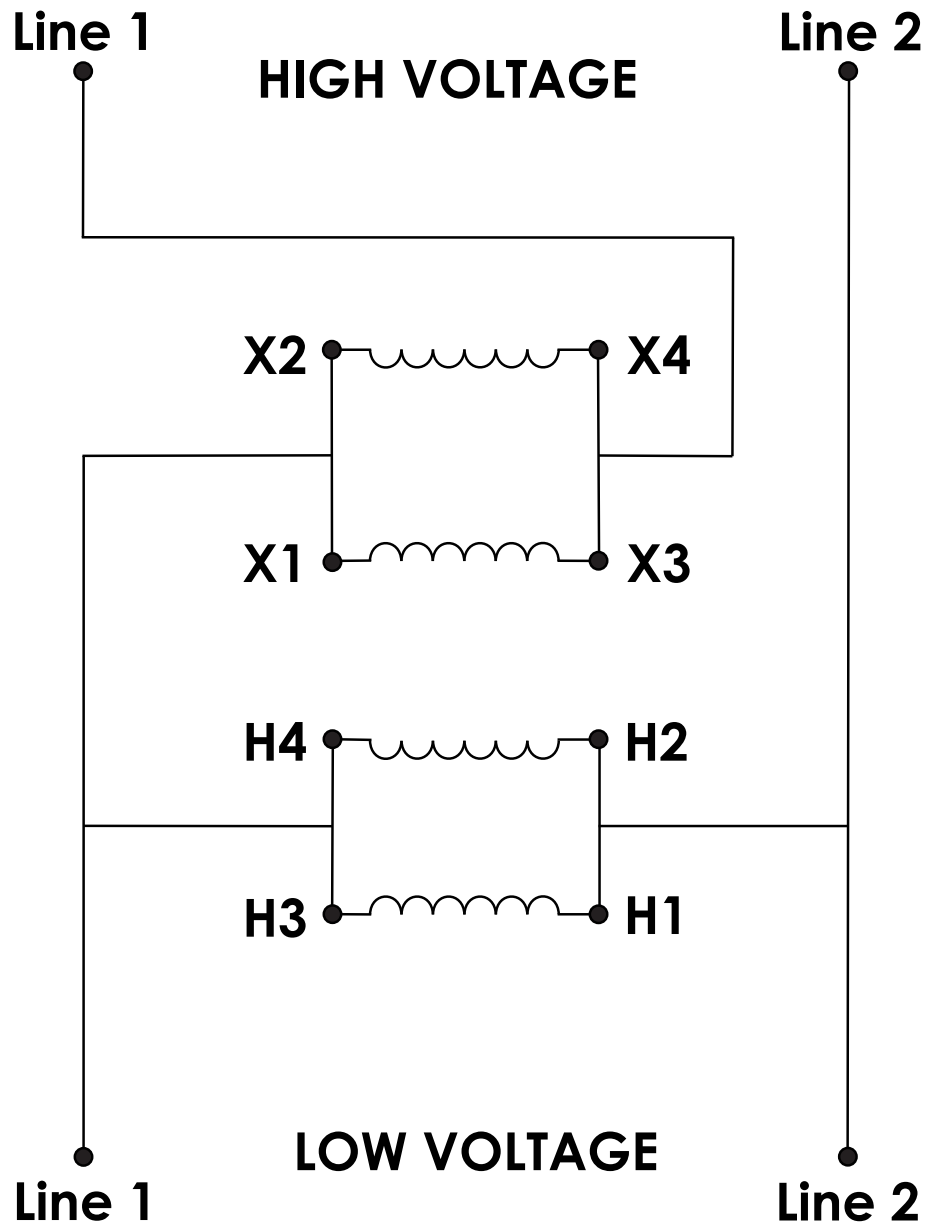
Bottom View: Shows a rectangular plate with overall dimensions of 5.43" (width) by 4.45" (height). It features four 3/4" NPT knockouts. The distance from the left edge to the first knockout is 1.1". The distance from the right edge to the first knockout is 3.23". The distance from the top edge to the first knockout is 2.52". The distance from the bottom edge to the first knockout is 0.95".

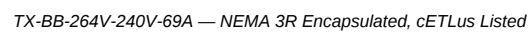
Labels: (1) 3/4" NPT Knockout Per Side, (4) 3/4" NPT Knockouts, Ground hole, M3, M3.

Connection Guide

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

DIAGRAM A2







Base Knockouts — (4) ¾" NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core