



Summary

Single-phase buck-boost transformer. Steps down 440V to 400V at 15 amps continuous output. 6 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 440V building supply to 400V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 400V that is installed on a 440V 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 15-amp buck-boost transformer is significantly smaller and lighter than a 15-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-440V-400V-15A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	6 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	440V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	13.60A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	400V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	15A	Winding Material	Aluminum
Maximum Primary OCP	20A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	14 lbs
Temperature Rise	115°C	Dimensions	4.65 x 3.86 x 9.25

Ratings & Certifications

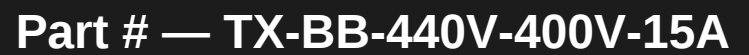
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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: 4.77" (width) x 5.32" (height) and 4.65" (width) x 9.25" (height).
- Top section: Two 1/2" NPT knockouts, 3.15" apart, with 1.97" spacing between them. The section is 0.82" wide.
- Ground hole: Located 3.01" from the left edge and 1.18" from the bottom edge. Diameter is $\varnothing 0.2$ ".
- Bottom section: A central slot, 1.63" wide, with a 0.08" gap. The bottom edge is 0.86" from the centerline.
- Overall width: 4.65".

Front View:

- Overall dimensions: 10.97" (width) x 5.32" (height).
- Right side: A 1/2" NPT knockout, 1.89" from the right edge. The knockout is 1.57" in diameter.
- Bottom section: A central slot, 3.86" wide, with a 0.08" gap. The bottom edge is 0.39" from the centerline.
- Overall width: 10.97".

Bottom View:

- Overall dimensions: 4.65" (width) x 3.86" (height).
- Four 1/2" NPT knockouts, arranged in a 2x2 grid.
- Spacing: 2.32" between knockouts horizontally and 2.09" vertically.
- Overall width: 4.65".

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