

Summary

Single-phase buck-boost transformer. Steps up 480V to 528V at 30 amps continuous output. 15.84 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 480V building supply to 528V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 528V that is installed on a 480V system.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 30-amp buck-boost transformer is significantly smaller and lighter than a 30-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-480V-528V-30A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	15.84 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	480V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	33.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	528V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	30A	Winding Material	Aluminum
Maximum Primary OCP	50A	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 x 4.49 x 10.87

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: 5.43"
- Overall Height: 10.87"
- Top Section Width: 2.95"
- Top Section Height: 1.23"
- Top Section Hole Spacing: 1.12" (between holes)
- Ground Hole Diameter: $\varnothing 0.2"$
- Ground Hole Position: 1.18" from right edge, 0.08" from bottom edge
- Mounting Bracket Width: 1.95"
- Mounting Bracket Height: 0.86"
- Mounting Bracket Position: 1.63" from right edge

Side View Dimensions:

- Overall Height: 13"
- Plate Thickness: 0.93"
- Knockout Diameter: (1) 3/4" NPT
- Knockout Position: 1.97" from right edge, 1.57" from bottom edge
- Mounting Bracket Width: 4.49"
- Mounting Bracket Height: 2.32"
- Mounting Bracket Position: 0.08" from right edge, 0.39" from bottom edge
- Mounting Bracket Type: M3

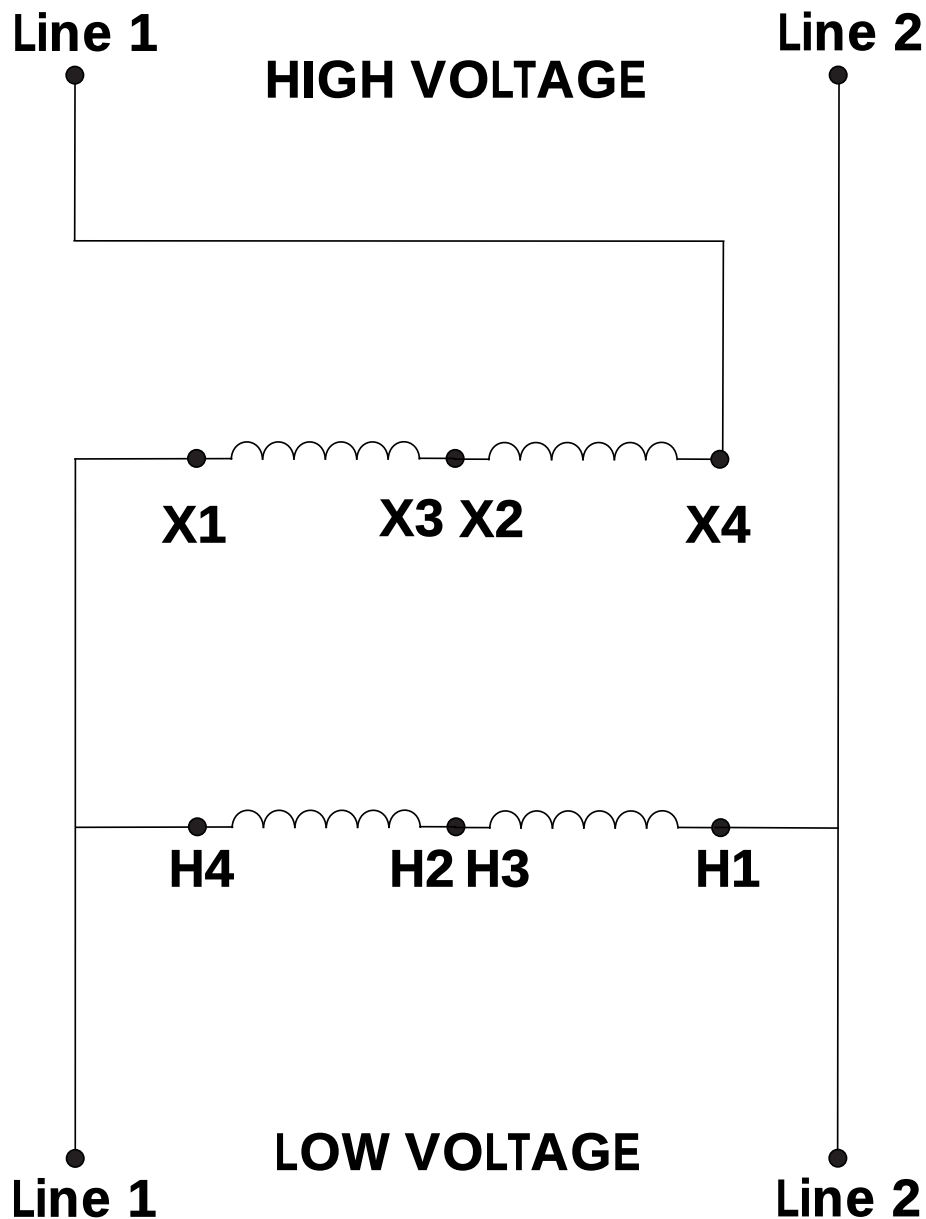
Top View Dimensions:

- Overall Width: 5.43"
- Overall Height: 4.45"
- Knockout Diameter: (4) 3/4" NPT
- Knockout Position: 1.1" from left edge, 3.23" from right edge, 2.52" from top edge, 0.95" from bottom edge

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







Base Knockouts — (4) ¾" NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core