

Summary

Single-phase buck-boost transformer. Steps down 242V to 220V at 115 amps continuous output. 25.3 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 242V building supply to 220V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 220V that is installed on a 242V 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 115-amp buck-boost transformer is significantly smaller and lighter than a 115-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-242V-220V-115A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	25.3 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	242V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	105.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	220V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	115A	Winding Material	Aluminum
Maximum Primary OCP	150A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	52 lbs
Temperature Rise	115°C	Dimensions	7.68"-W x 6.38"-D x 12.2"-H

Ratings & Certifications

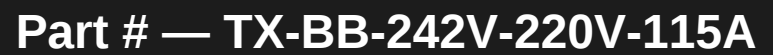
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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, showing three views: Front, Side, and Top.

Front View:

- Overall width: 12.21"
- Overall height: 8.27"
- Top section width: 6.58"
- Top section height: 1.26"
- Top section features four circular knockouts.
- Ground hole: $\varnothing 0.21$
- Bottom section width: 7.68"
- Bottom section height: 1.95"
- Bottom section features a central slot with a width of 0.96"

Side View:

- Overall height: 14.36"
- Overall width: 6.38"
- Top section height: 12.21"
- Side section height: 4.25"
- Side section features four circular knockouts.
- Bottom section width: 0.79"
- Bottom section height: 4.6"
- Bottom section features a central slot with a width of 0.08"

Top View:

- Overall width: 7.68"
- Overall height: 6.38"
- Top section width: 5.35"
- Top section height: 1.16"
- Top section features four circular knockouts.
- Bottom section width: 4.41"
- Bottom section height: 0.95"
- Bottom section features a central slot with a width of 0.08"

Labels:

- (1) 3/4" NPT Knockout Per Side
- (4) 3/4" NPT Knockouts
- M3

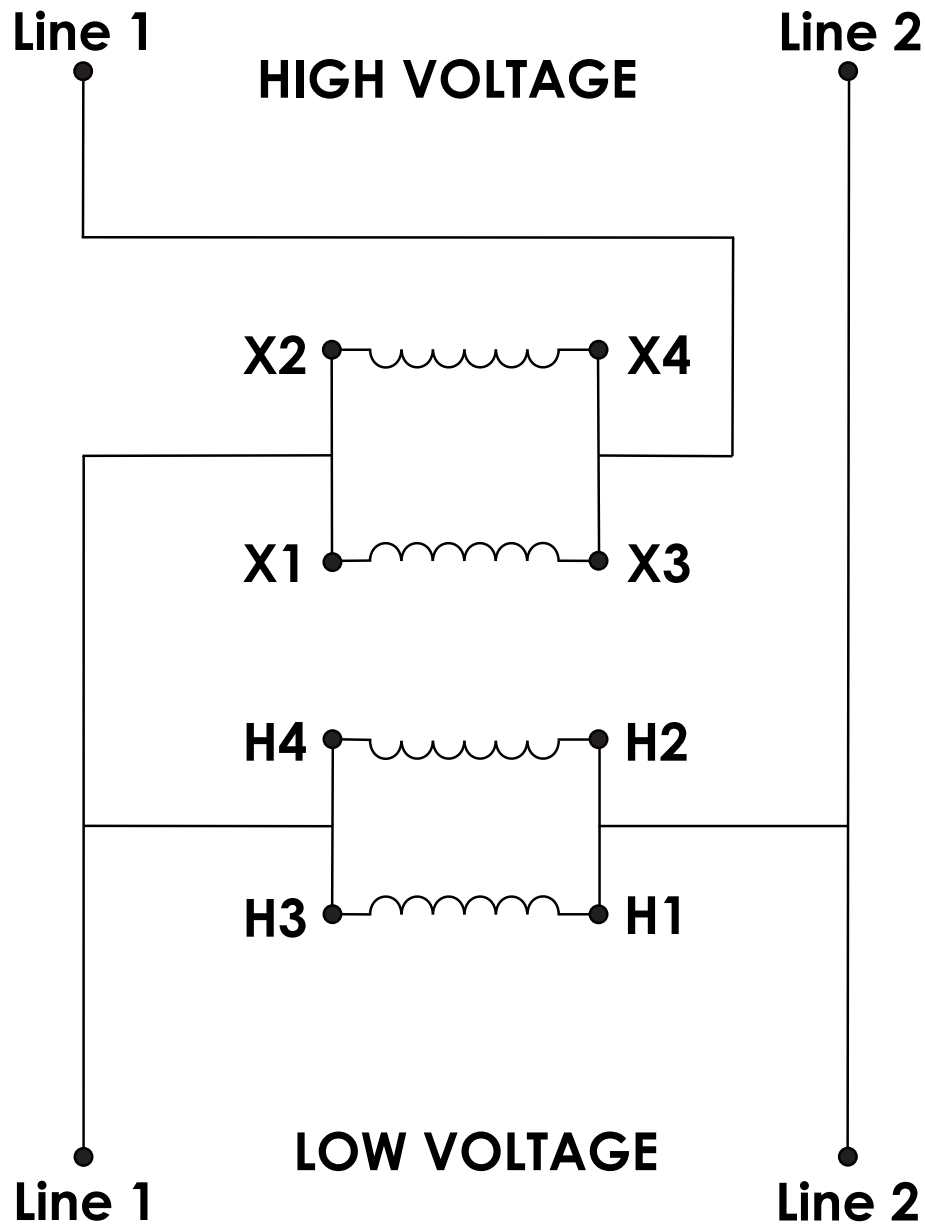
Dimensions:

- 6.58"
- 1.26"
- 12.21"
- 8.27"
- 6.38"
- 14.36"
- 12.21"
- 4.25"
- 0.79"
- 4.6"
- 0.08"
- 0.95"
- 4.41"
- 7.68"
- 5.35"
- 1.16"
- 1.95"
- 0.96"
- 1.18"
- 1.14"
- 2.95"
- 1.14"

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





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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