Summary

Single-phase buck-boost transformer. Steps up 115V to 138V at 83.3 amps continuous output. 11.5 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 115V building supply to 138V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 138V that is installed on a 115V system.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 83.3-amp buck-boost transformer is significantly smaller and lighter than a 83.3-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-115V-138V-83A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	**Transformer Type**	Buck/Boost
Capacity	11.5 kVA	**Configuration**	Encapsulated Autotransformer
Primary Voltage	115V	**Primary Termination**	Lead Wires & Terminal Lugs
Primary Amperage	100.00A	**Secondary Termination**	Lead Wires & Terminal Lugs
Secondary Voltage	138V	**Termination Access**	(6) ¾" NPT Hubs
Secondary Amperage	83.3A	**Winding Material**	Aluminum
Maximum Primary OCP	125A	**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

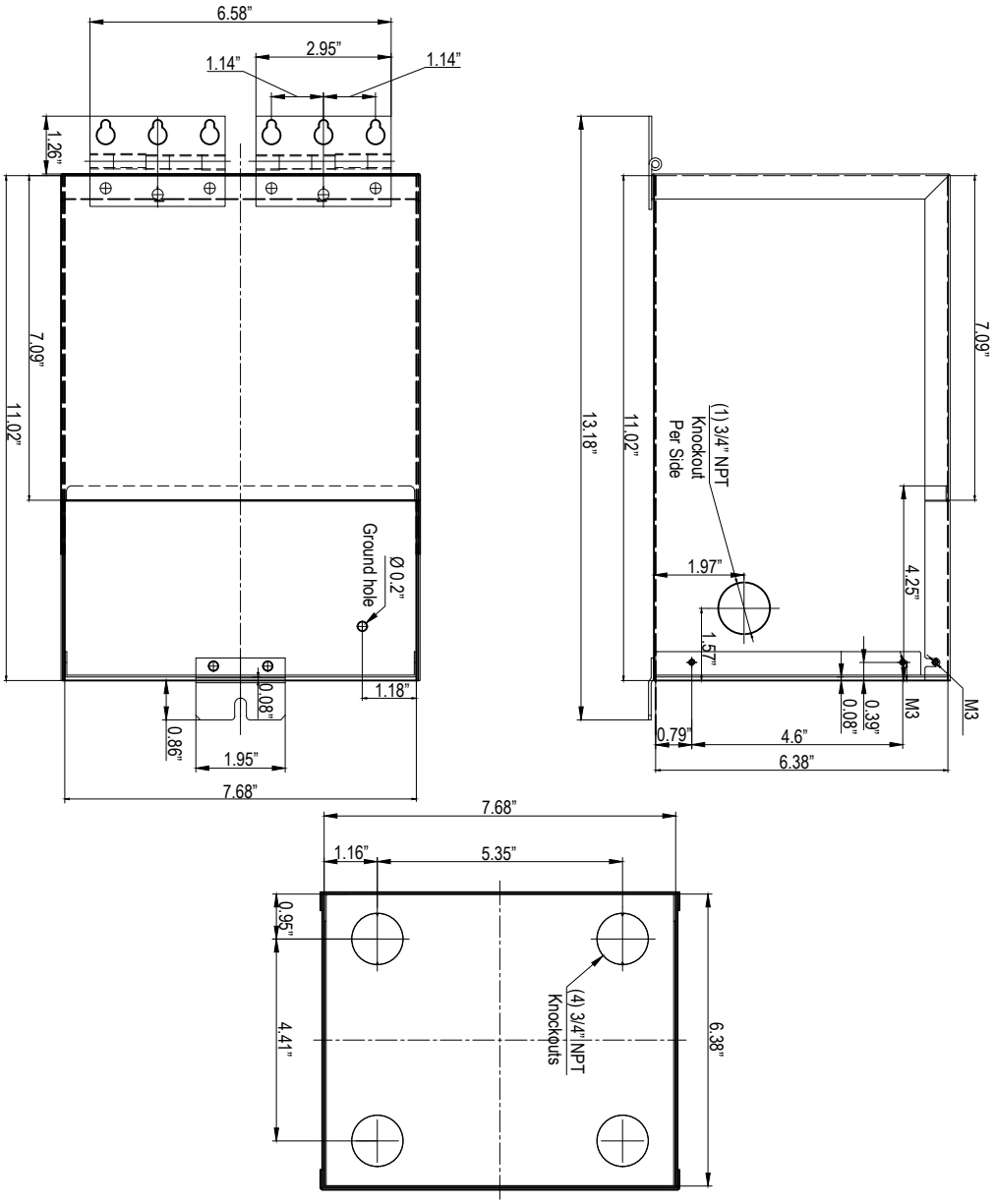
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant

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.

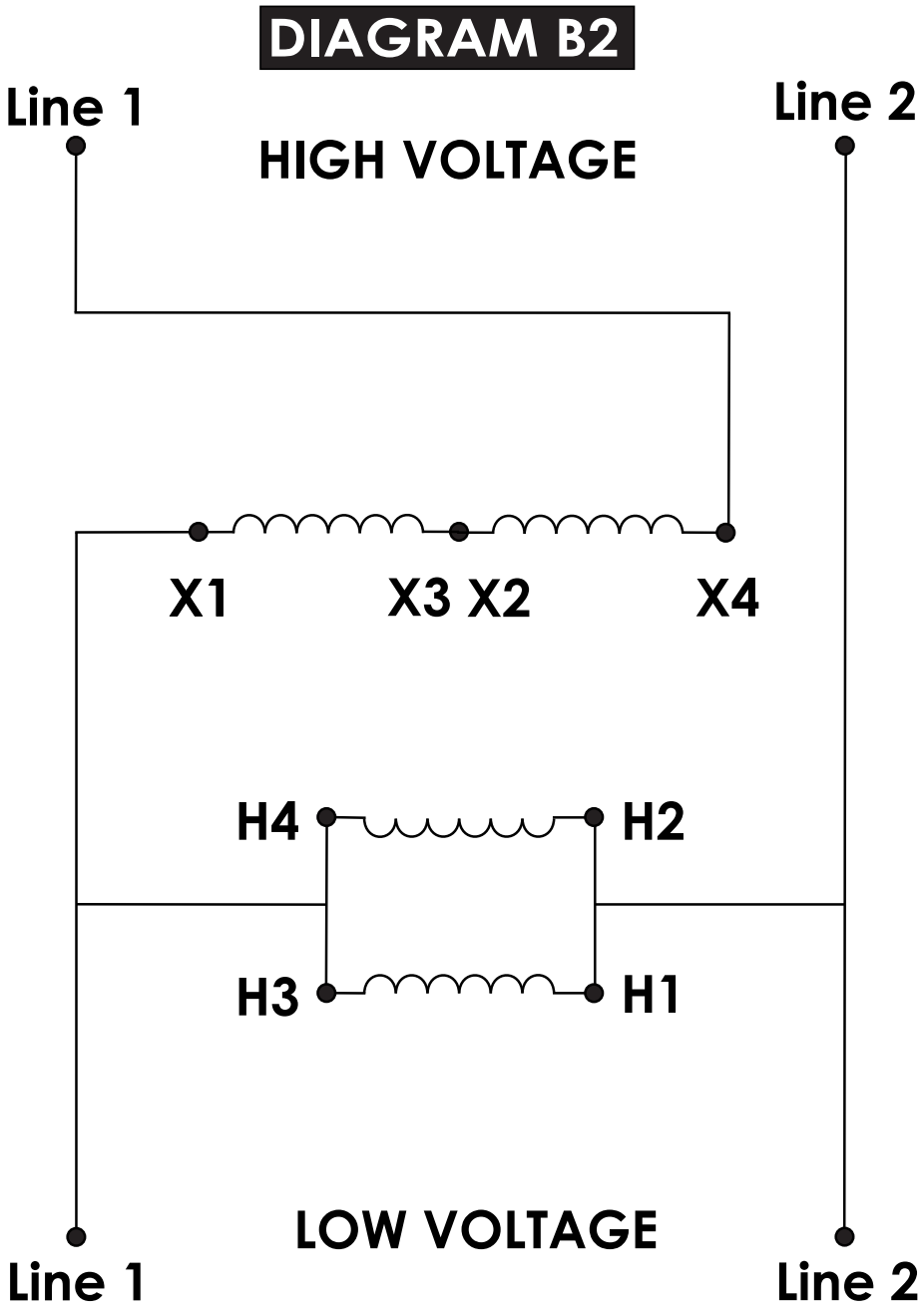
Dimensions



(4) 3/4" NPT Knockouts
Bottom (Underside) Plate

Connection Guide

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



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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