

Summary

Three-phase wye buck-boost transformer. Steps up 173V to 208V at 15 amps continuous output. 5.4 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 173V three phase building supply to 208V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 208V that is installed on a 173V system experiencing undervoltage from the utility.

Configured as a wye 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-173Y-208Y.120-15A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	Transformer Type	Buck/Boost
Capacity	5.4 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	173V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	18.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	208V	Termination Access	(6) 3/4" NPT Hubs
Secondary Amperage	15A	Winding Material	Aluminum
Maximum Primary OCP	25A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	66 lbs
Temperature Rise	115°C	Dimensions	5.43 x 4.49 x 10.08

Ratings & Certifications

- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-5085 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



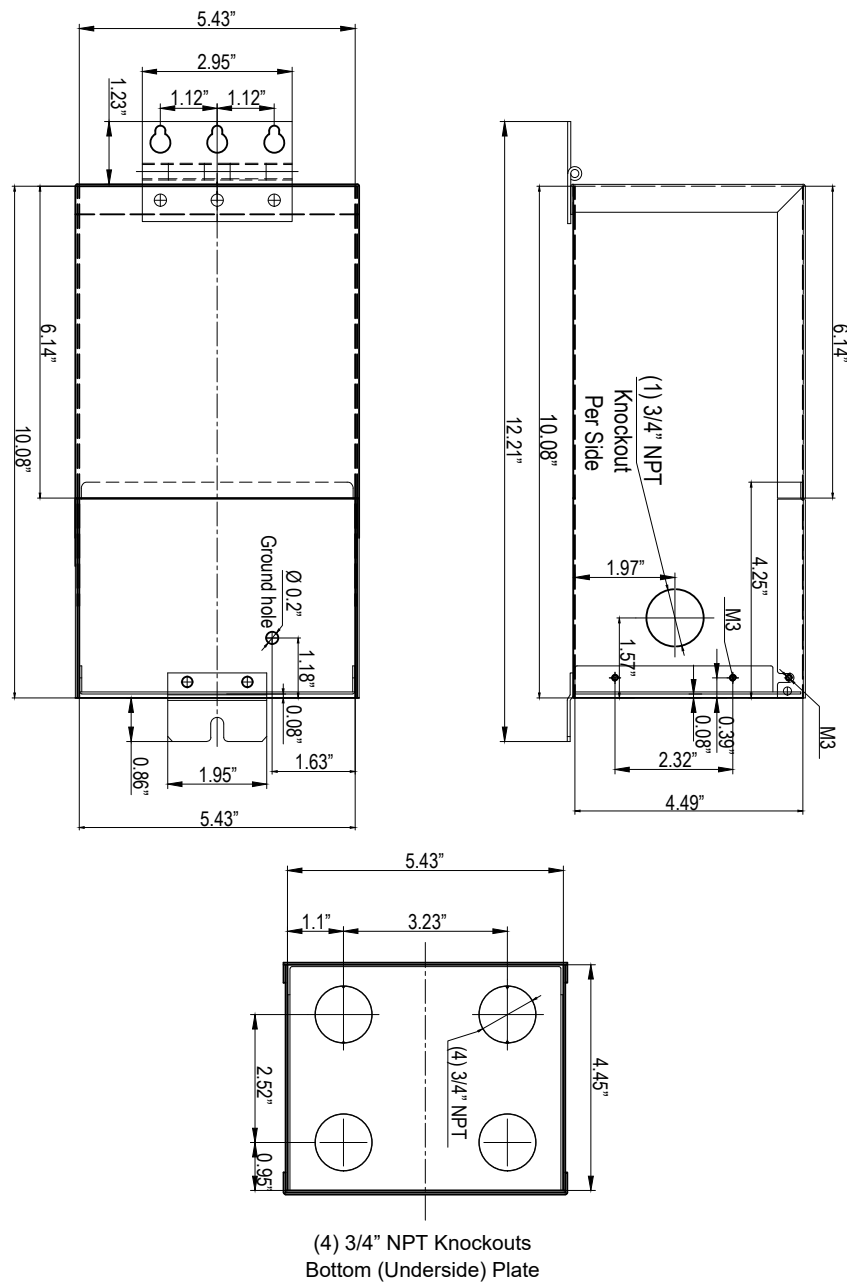
Common Applications

- 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

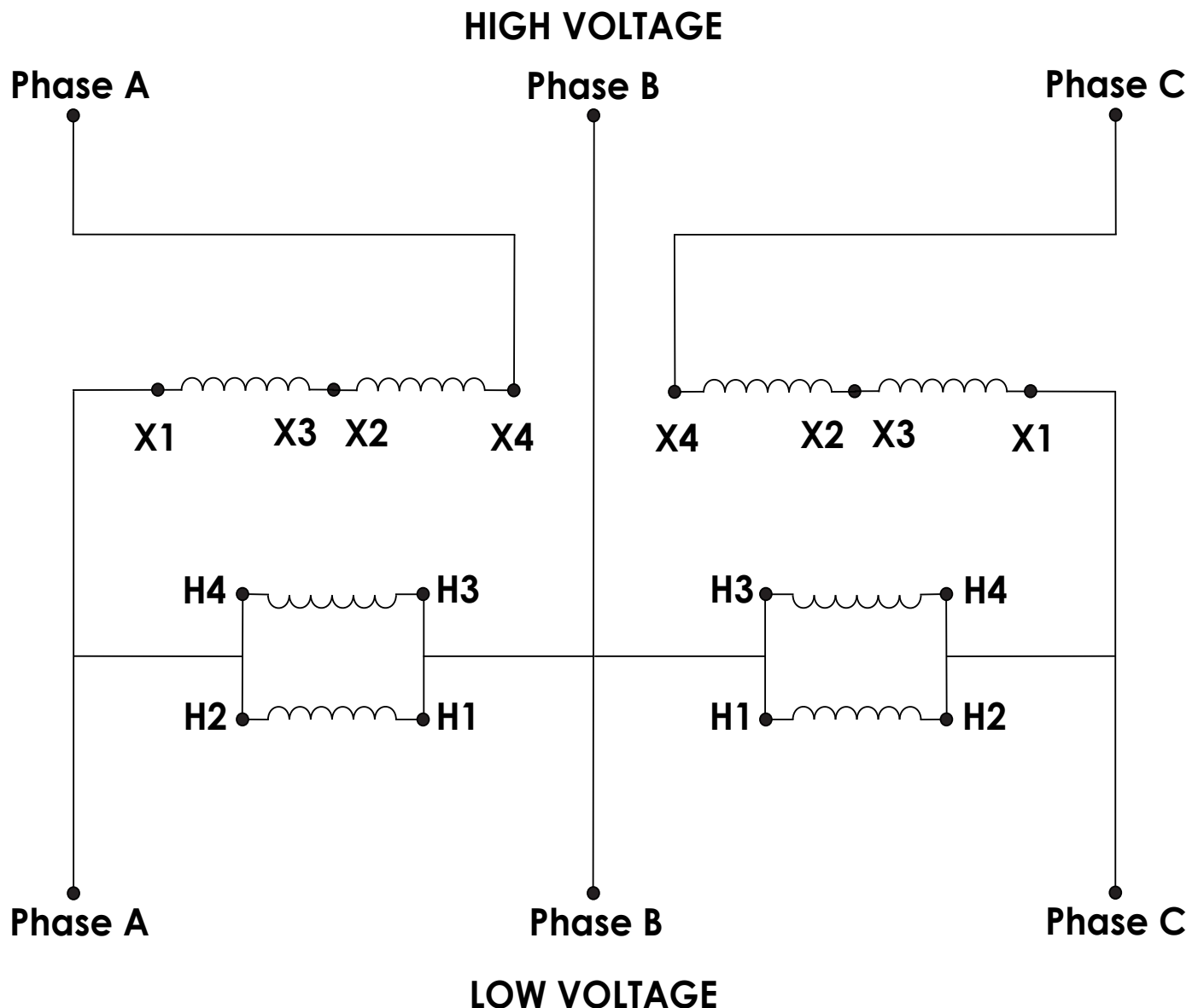
Three-phase wye installation — (3) enclosures required.



Connection Guide

1. Connect **X2** and **X3** together for each transformer
2. Connect High Voltage **PHASE A** to **X4** on transformer A
3. Connect High Voltage **PHASE C** to **X4** on transformer B
4. Connect Low Voltage **PHASE A** to **X1**, **H4**, **H3** on transformer A
5. Connect Low Voltage **PHASE C** to **X1**, **H4**, **H3** on transformer B
6. Connect High & Low Voltage **PHASE B** to **H1** and **H2**
7. Bridge **H1** and **H2** connections between Transformer A & B

DIAGRAM E2





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The image shows three identical grey metal autotransformers standing side-by-side. Each unit has a top-mounted terminal block with three screw terminals. The front of each unit features a white label with the Sanzo Sales logo and technical specifications. The label for the middle unit is clearly legible and includes the following information:

SANZO SALES
TX-BB-208Y-240Y-40A

Phase	Single Phase	Configuration	Apparent Power
Rated Voltage	208Y	40A	8.7kVA
Rated Voltage	240Y	30A	7.2kVA
Rated Voltage	240Y	30A	7.2kVA
Rated Voltage	240Y	30A	7.2kVA
Rated Voltage	240Y	30A	7.2kVA

Autotransformer

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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