

Summary

Three-phase wye buck-boost transformer. Steps down 138V to 115V at 17.5 amps continuous output. 6.04 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 138V three phase building supply to 115V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 115V that is installed on a 138V system experiencing overvoltage 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 17.5-amp buck-boost transformer is significantly smaller and lighter than a 17.5-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-239Y-199Y.115-18A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	Transformer Type	Buck/Boost
Capacity	6.04 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	138V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	14.60A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	115V	Termination Access	(6) 1/2" NPT Hubs
Secondary Amperage	17.5A	Winding Material	Aluminum
Maximum Primary OCP	20A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	42 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-5085 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



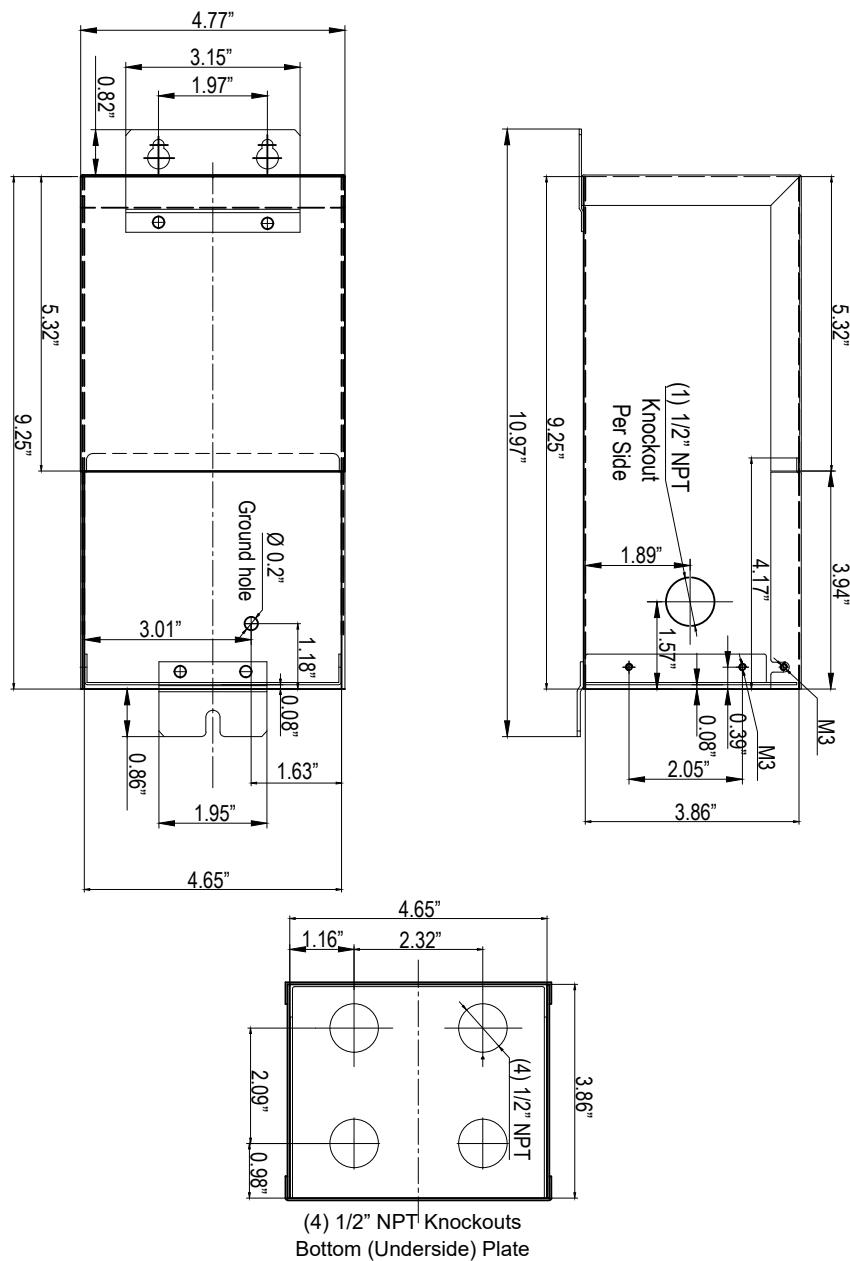
Common Applications

- 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.

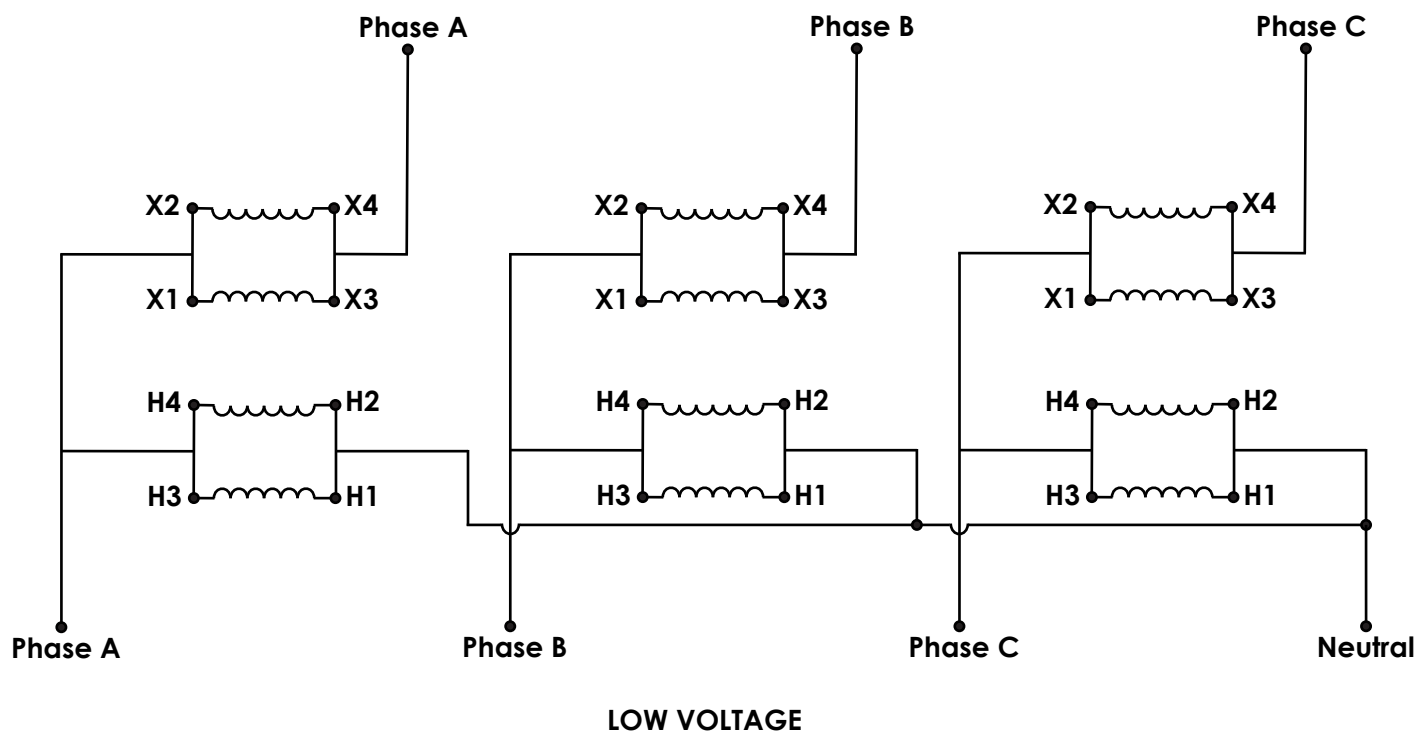


Connection Guide

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

DIAGRAM J2

HIGH VOLTAGE





sales@sanzosales.com

The image displays three identical grey metal autotransformers from Sanzo Sales, arranged in a row. Each unit is a rectangular box with a hinged top and a hinged bottom section. The top section is open, revealing the internal components. The bottom section has a latch on the left side. Each unit has a white label on the front panel. The label includes the Sanzo Sales logo, the model number TX-BB-208Y-220Y-21A, and technical specifications. The units are designed for industrial or commercial use, as indicated by the heavy-duty metal construction and the technical nature of the specifications.

Label Information:

SANZO SALES
TX-BB-208Y-220Y-21A

Feature	Single Phase	Configuration	Accessories
Input Voltage	208V	Max. 208V	40A
Output Voltage	220V	Max. 220V	40A
Max. Input Amps	10.0A	Max. 10.0A	40A
Max. Output Amps	10.0A	Max. 10.0A	40A

Conforms to Type ABB-20 for Safety in Outdoor Use
 Conforms to UL 508 - Conforms to NEMA 4X-20
 Mark # TX-BB-208Y-220Y-21A

Autotransformer

ETL
 LISTED
 CONFORMS TO UL 508-208V-1
 APPROVED FOR USE IN 208V-1

sales@sanzosales.com



Base Knockouts — (4) $\frac{3}{4}$ " NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core