

Summary

Three-phase delta buck-boost transformer. Steps down 457V to 435V at 10.9 amps continuous output. 8.21 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 457V three phase building supply to 435V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 435V that is installed on a 457V system experiencing overvoltage from the utility.

Configured as an open delta autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 10.9-amp buck-boost transformer is significantly smaller and lighter than a 10.9-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-457D-435D-11A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	8.21 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	457V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	10.40A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	435V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	10.9A	Winding Material	Aluminum
Maximum Primary OCP	15A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	24 lbs
Temperature Rise	115°C	Dimensions	4.65 x 3.86 x 8.07

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



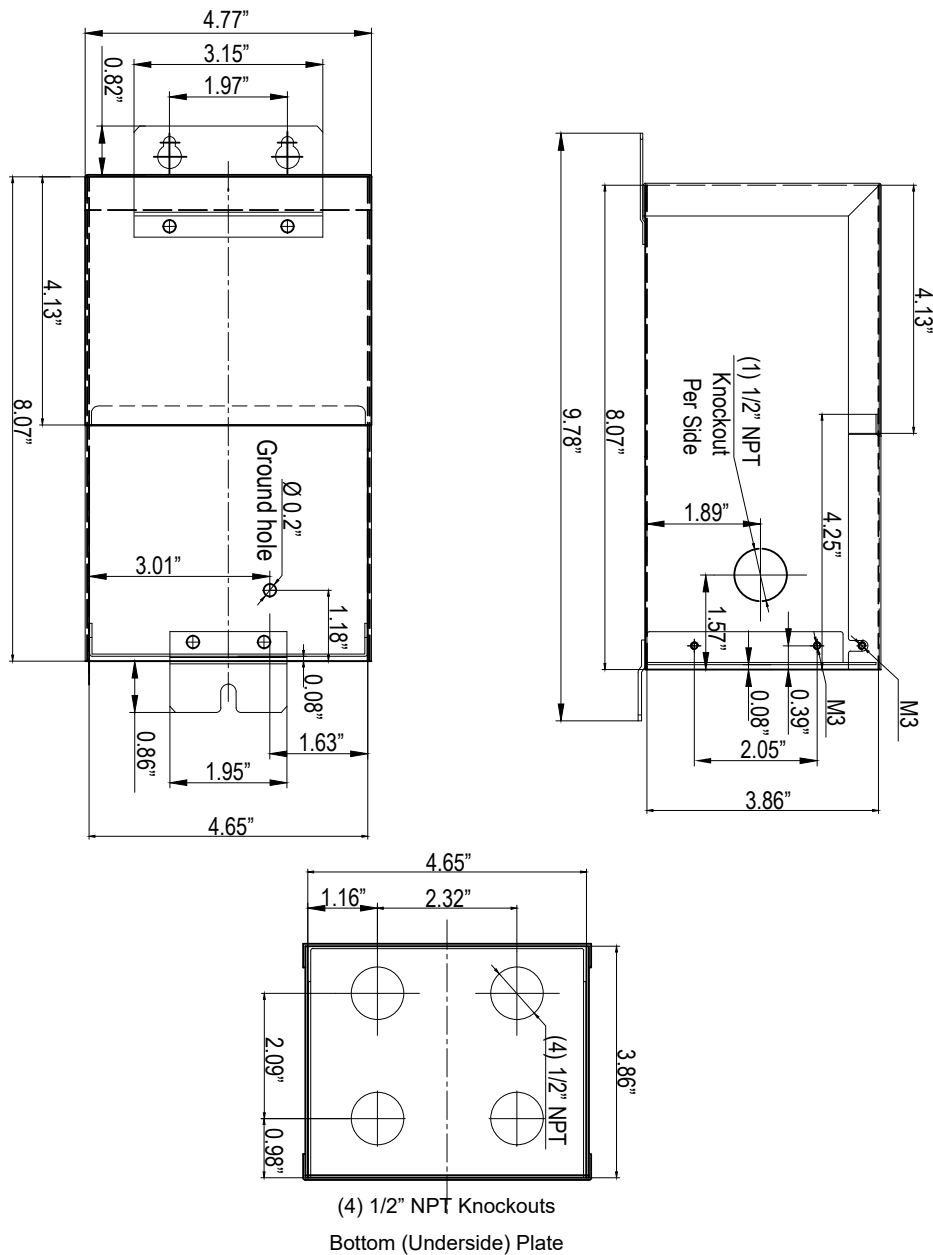
Common Applications

- 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 open delta installation — (2) enclosures required.

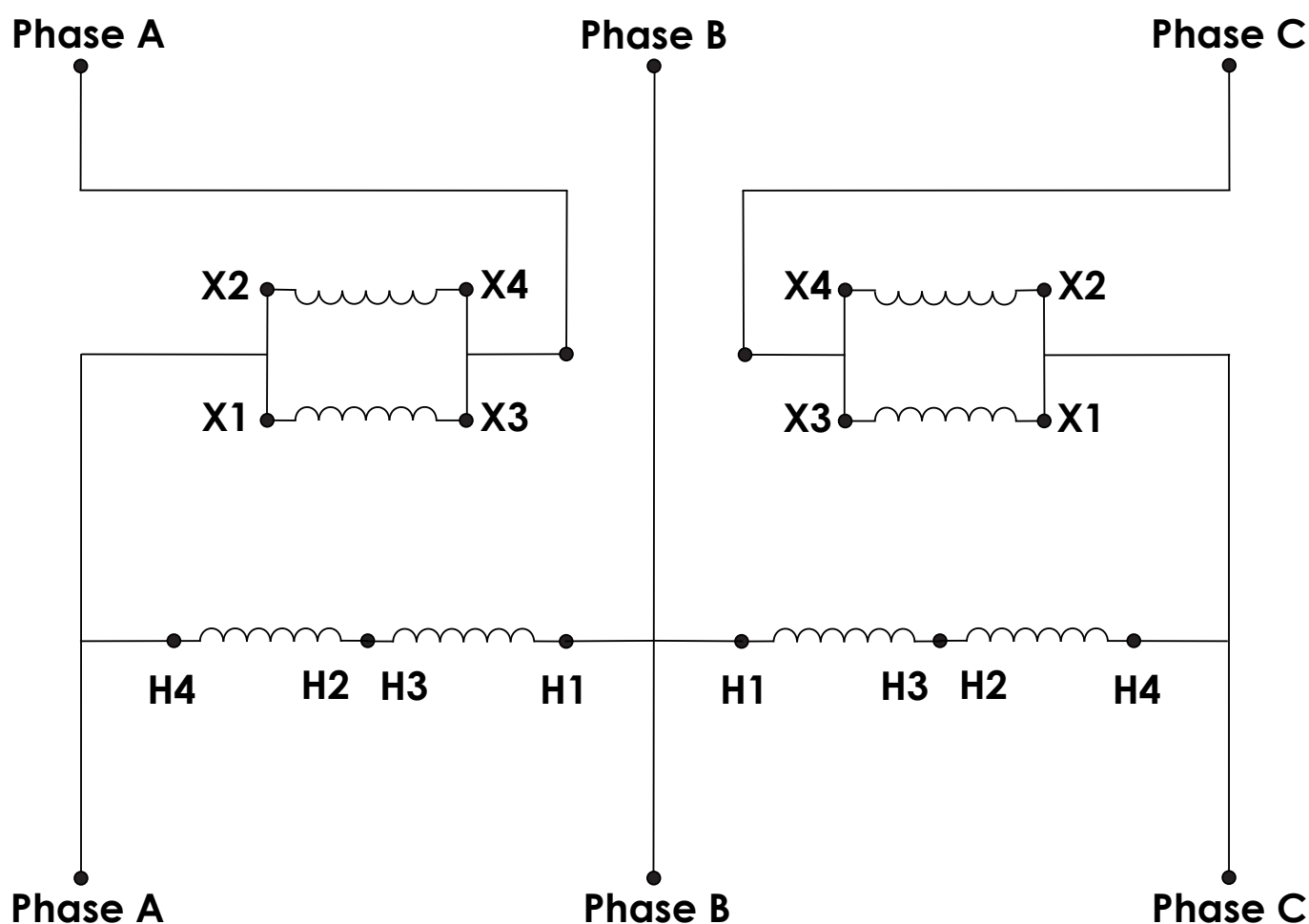


Connection Guide

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

DIAGRAM H2

HIGH VOLTAGE



LOW VOLTAGE



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The image shows two identical grey metal autotransformers from Sanzo Sales. They are rectangular units with a hinged top and a handle on the side. Each unit has a label with the following information:

- Logo:** A stylized 'A' inside a triangle.
- Brand:** SANZO SALES
- Model:** TX-BB-208D-220D-5A
- Specifications:**
 - Power: Single Phase
 - Input Voltage: 208V
 - Output Voltage: 220V
 - Maximum Power: 5000 VA
 - Max Input Range: 20-208V
 - Max Output Range: 208V
 - Configuration: Autotransformer
 - Max Output: 5000 VA
 - Insulation: 100% Class
 - Temp. Rise: 100°C
 - Altitude: 1000m
- Warnings:**
 - Indication Type: 100% Class
 - Compliance: IEC 60084-1
 - Standard: IEC 60084-1
- CE Marking:** A CE mark is visible on the bottom right of the label.
- Autotransformer:** A label indicating the type of transformer.

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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