

Summary

Three-phase delta buck-boost transformer. Steps down 436V to 415V at 10.9 amps continuous output. 7.83 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 436V three phase building supply to 415V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 415V that is installed on a 436V 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-436D-415D-11A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	7.83 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	436V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	10.40A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	415V	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



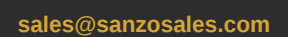
Common Applications

- 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.



Three-phase open delta installation — (2) enclosures required.

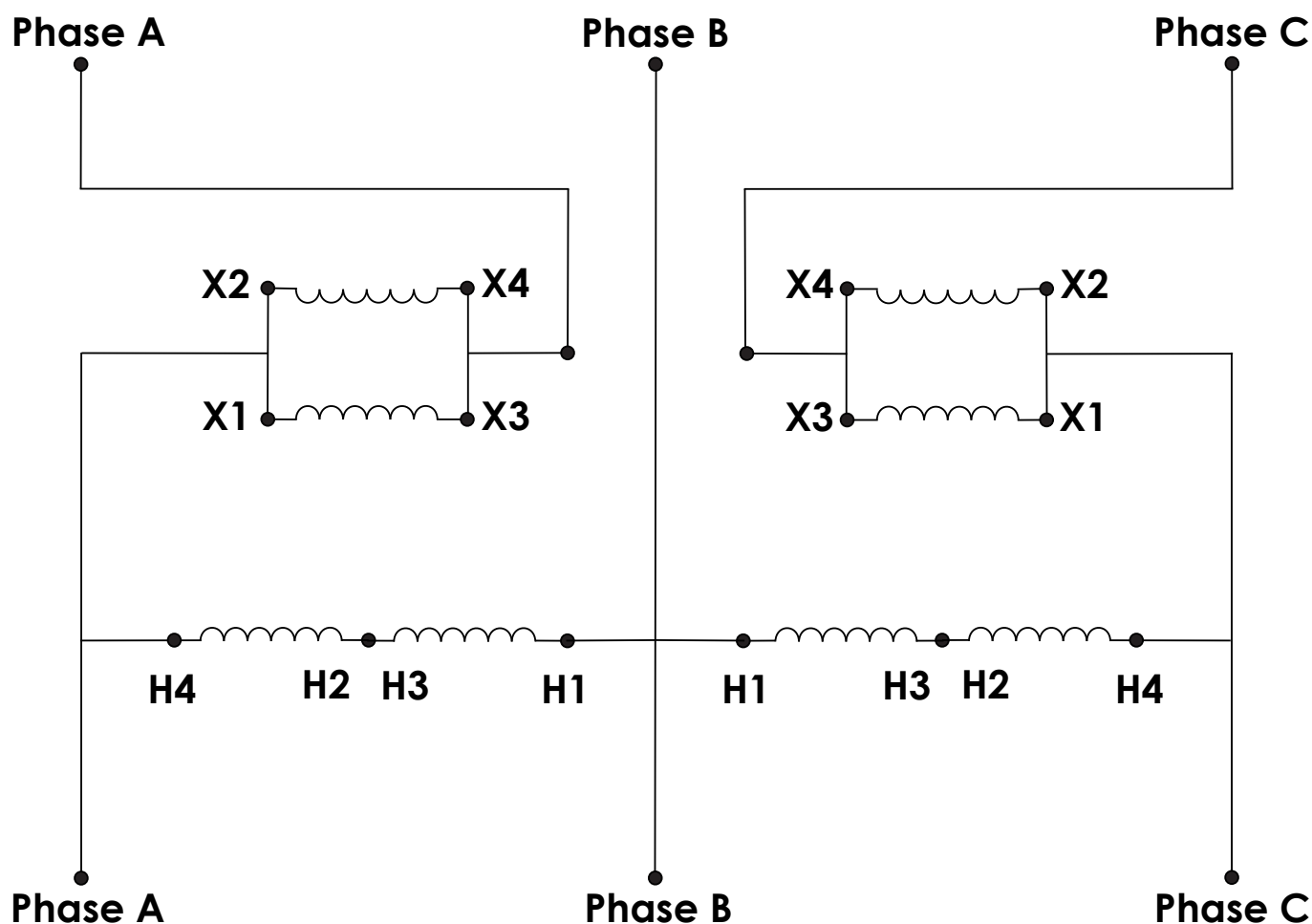


Connection Guide

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



sales@sanzosales.com

The image shows two identical grey metal autotransformers from Sanzo Sales. Each unit is a rectangular box with a handle on top and a warning label on the front. The label on the left unit reads:

SANZO SALES
TX-BB-208D-220D-5A

Power:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max BCP:	40A
Output Voltage:	220V	Frequency:	50/60 Hz
Rated output:	1.12 kVA	Insulation:	180°C
Max Input Range:	24.0kV	Temp Rise:	10°C
Max Output Range:	24kV	Windings:	Aluminum

Endorsement Type: NEMA 2B for Indoor or Outdoor Use
 Conforms to UL 516 Conforms to NEMA I-10
 Stock # TX-BB-208D-220D-5A Lot # 470504

Autotransformer

CONFORMS TO UL 516 CLASS 1
 CONFORMS TO NEMA I-10

The label on the right unit is identical.

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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