

Summary

Three-phase delta buck-boost transformer. Steps up 200V to 208V at 8.33 amps continuous output. 3 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 200V three phase building supply to 208V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 208V that is installed on a 200V system experiencing undervoltage 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 8.33-amp buck-boost transformer is significantly smaller and lighter than a 8.33-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-200D-208D-3KVA — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	3 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	200V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	8.66A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	208V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	8.33A	Winding Material	Aluminum
Maximum Primary OCP	15A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	16 lbs
Temperature Rise	115°C	Dimensions	9.55"-W x 3.86"-D x 8.07"-H

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. Each unit is a rectangular box with a handle on top and a label on the front. The label contains the following information:

- Sanzo Sales Logo:** A stylized 'A' inside a triangle.
- Model Number:** TX-BB-208D-220D-5A
- Technical Specifications:**

Phase:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max BCP:	50A
Output Voltage:	220V	Frequency:	60Hz/50
Maximum Power:	5.0 kVA	Insulation:	100°C
Max Input Amps:	24.0A	Temp Rise:	10°C
Max Output Amps:	24A	Windings:	Aluminum
- Warnings:**
 - Indication Type: 4000-00 for Indoor or Outdoor Use
 - Indication 4000-00 for Indoor or Outdoor Use
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 - Indication 4000-00 for Indoor or Outdoor Use
- ETL Logo:** A circular logo with 'ETL' inside.
- Autotransformer Label:** A small label with the word '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