

Summary

Three-phase delta buck-boost transformer. Steps up 205V to 230V at 37.65 amps continuous output. 15 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 205V three phase building supply to 230V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 230V that is installed on a 205V 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 37.65-amp buck-boost transformer is significantly smaller and lighter than a 37.65-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-205D-230D-15KVA — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	15 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	205V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	42.25A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	230V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	37.65A	Winding Material	Aluminum
Maximum Primary OCP	60A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	54 lbs
Temperature Rise	115°C	Dimensions	12.01"-W x 5.5"-D x 10.5"-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 **X2** and **X3** together for both transformers
2. Connect **H2** and **H3** together for both transformers
3. Connect High Voltage **PHASE A** to **X4** on transformer A
4. Connect High Voltage **PHASE C** to **X4** on transformer B
5. Connect Low Voltage **PHASE A** to **H4** and **X1** on transformer A
6. Connect Low Voltage **PHASE C** to **H4** and **X1** on transformer B
7. Connect High & Low Voltage **PHASE B** to **H1**
8. Bridge **H1** connections between transformer A & B

DIAGRAM G2

HIGH VOLTAGE





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The image shows two identical large, grey, rectangular autotransformers from Sanzo Sales. Each unit features a lifting eye at the top and a detailed technical label. The label for the unit on the left is for model TX-BB-208D-230D-41A, and the unit on the right is for model TX-BB-208D-230D-41A. Both units are designed for 3-phase, 4-wire service and provide a 208V output.

Left Unit Label:

SANZO SALES
TX-BB-208D-230D-41A

Phase:	3-Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. WVA:	41A
Output Voltage:	208V	Transformer:	None
Maximum Amps:	11.5A	Insulation:	100°C
Max Input Range:	24.0kV	Surge Rate:	100°C
Max Output Range:	24.0kV	Windings:	Aluminum

Endurance: Type 1000-20 for outdoor or outdoor use
 Conforms to UL 368 Conforms to IEC 60076-1
 Size 4 1/2 x 11 x 11 1/2 in. 100 lb net weight

Autotransformer

Right Unit Label:

SANZO SALES
TX-BB-208D-230D-41A

Phase:	3-Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. WVA:	41A
Output Voltage:	208V	Transformer:	None
Maximum Amps:	11.5A	Insulation:	100°C
Max Input Range:	24.0kV	Surge Rate:	100°C
Max Output Range:	24.0kV	Windings:	Aluminum

Endurance: Type 1000-20 for outdoor or outdoor use
 Conforms to UL 368 Conforms to IEC 60076-1
 Size 4 1/2 x 11 x 11 1/2 in. 100 lb net weight

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