



Summary

Three-phase delta buck-boost transformer. Steps up 208V to 240V at 36.08 amps continuous output. 15 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 208V three phase building supply to 240V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 240V that is installed on a 208V 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 36.08-amp buck-boost transformer is significantly smaller and lighter than a 36.08-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-208D-240D-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	208V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	41.64A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	240V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	36.08A	Winding Material	Aluminum
Maximum Primary OCP	60A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	68 lbs
Temperature Rise	115°C	Dimensions	14.25"-W x 6.5"-D x 11.75"-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



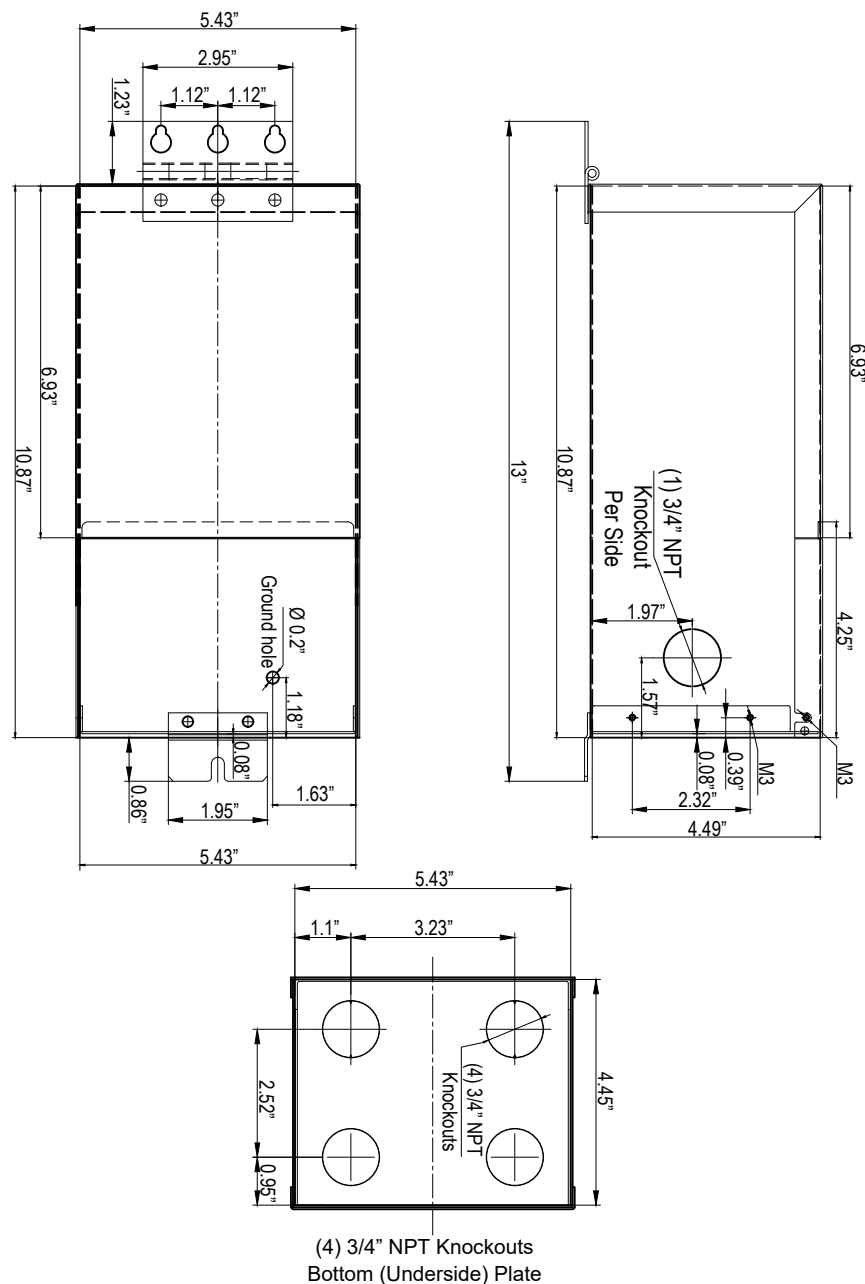
Common Applications

- 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 on the left unit specifies a model of TX-BB-208D-230D-62.5A and lists various electrical ratings. The label on the right unit specifies a model of TX-BB-208D-230D-62.5A and lists various electrical ratings. Both units are designed for industrial or commercial power conversion.

Left Unit Label:

SANZO SALES
TX-BB-208D-230D-62.5A

Phase:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. VA:	62.5
Output Voltage:	230V	Frequency:	50/60 Hz
Isolation Voltage:	1500 VAC	Insulation:	100% C
Max Input Amps:	24.00A	Temp. Rise:	100°C
Max Output Amps:	24.00A	Windings:	Aluminum

Endurance: 1 year 100% life for indoor or outdoor use
 Conforms to UL 98 Conforms to IEC 60076-1
 Size 4 1/2 x 11 x 11 1/2 in. 100 lb weight

Autotransformer

Right Unit Label:

SANZO SALES
TX-BB-208D-230D-62.5A

Phase:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. VA:	62.5
Output Voltage:	230V	Frequency:	50/60 Hz
Isolation Voltage:	1500 VAC	Insulation:	100% C
Max Input Amps:	24.00A	Temp. Rise:	100°C
Max Output Amps:	24.00A	Windings:	Aluminum

Endurance: 1 year 100% life for indoor or outdoor use
 Conforms to UL 98 Conforms to IEC 60076-1
 Size 4 1/2 x 11 x 11 1/2 in. 100 lb 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