

Summary

Three-phase delta buck-boost transformer. Steps up 440V to 484V at 15.6 amps continuous output. 13.08 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 440V three phase building supply to 484V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 484V that is installed on a 440V 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 15.6-amp buck-boost transformer is significantly smaller and lighter than a 15.6-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-440D-484D-16A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	13.08 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	440V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	17.20A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	484V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	15.6A	Winding Material	Aluminum
Maximum Primary OCP	25A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	44 lbs
Temperature Rise	115°C	Dimensions	5.43 x 4.49 x 10.08

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



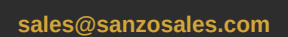
Common Applications

- 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.

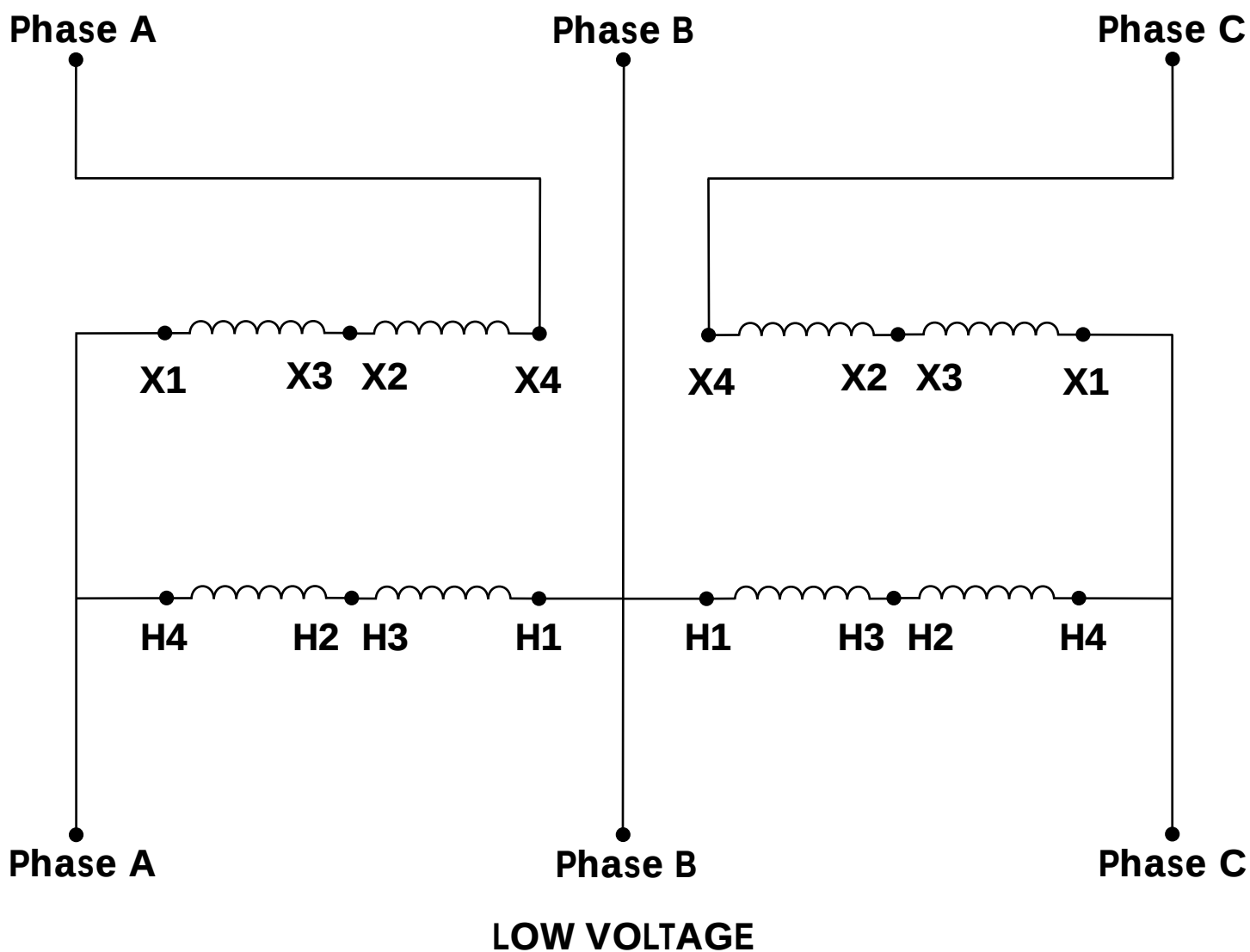


Connection Guide

1. Connect **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





sales@sanzosales.com

The image displays two identical grey metal autotransformers from Sanzo Sales. Each unit features a hinged top cover with three mounting holes. The front panel of each unit has a white label with the following information:

SANZO SALES
TX-BB-208D-240D-23.4A

Phase:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. VA:	2400 VA
Output Voltage:	240V	Frequency:	50/60 Hz
Isolation:	1:1	Insulation:	100% Class
Max. Input Current:	11.5A	Temp. Rise:	+10°C
Max. Output Current:	10A	Warranty:	3 Years

Conforms to UL 1551, IEC 60076-1, and IEC 60076-2
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Autotransformer

Sanzo Sales Inc. 10000 15th Ave. S. #100, Burnaby, BC V5A 1G6, Canada
 Tel: 604-291-1111 Fax: 604-291-1112 Email: info@sanzo.com

The second unit's label also includes a table with the following data:

Phase:	Single Phase	Configuration:	Autotransformer
Input Voltage:	208V	Max. VA:	2400 VA
Output Voltage:	240V	Frequency:	50/60 Hz
Isolation:	1:1	Insulation:	100% Class
Max. Input Current:	11.5A	Temp. Rise:	+10°C
Max. Output Current:	10A	Warranty:	3 Years

Conforms to UL 1551, IEC 60076-1, and IEC 60076-2
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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