

Summary

Three-phase wye buck-boost transformer. Steps down 480V to 448V at 5.02 amps continuous output. 3.9 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 480V three phase building supply to 448V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 448V that is installed on a 480V system experiencing overvoltage from the utility.

Configured as a wye autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 5.02-amp buck-boost transformer is significantly smaller and lighter than a 5.02-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-480Y-448Y.259-5A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	Transformer Type	Buck/Boost
Capacity	3.9 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	480V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	4.69A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	448V	Termination Access	(6) 3/4" NPT Hubs
Secondary Amperage	5.02A	Winding Material	Aluminum
Maximum Primary OCP	15A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	102 lbs
Temperature Rise	115°C	Dimensions	5.43 x 4.49 x 10.87

Ratings & Certifications

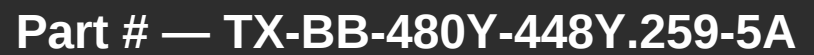
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-5085 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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 wye installation — (3) enclosures required.



Connection Guide

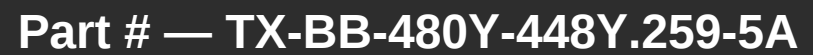
1. Connect **X4** and **X3** together for each transformer
2. Connect **X2** and **X1** together for each transformer
3. Connect High Voltage **PHASE A** to **X4, X3** on transformer 1
4. Connect High Voltage **PHASE B** to **X4, X3** on transformer 2
5. Connect High Voltage **PHASE C** to **X4, X3** on transformer 3
6. Connect Low Voltage **PHASE A** to **X1, X2, H4** on transformer 1
7. Connect Low Voltage **PHASE B** to **X1, X2, H4** on transformer 2
8. Connect Low Voltage **PHASE C** to **X1, X2, H4** on transformer 3
9. Connect **H2** and **H3** for each transformer
10. Connect **NEUTRAL** to **H1**
11. Bridge **H1** connections between ALL transformers

DIAGRAM L2

HIGH VOLTAGE



LOW VOLTAGE



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The image shows three identical Sanzo Sales autotransformers, model TX-BB-208Y-240Y-40A, arranged side-by-side. Each unit is a light gray, rectangular metal enclosure with a hinged top cover. The front of each unit features a white label with technical specifications and a logo. The label includes the Sanzo Sales logo, the model number, and a table of electrical ratings. The units are designed for industrial or commercial use, providing a 208V primary and 240V secondary output with a 40A capacity.

Label Information:

SANZO SALES
TX-BB-208Y-240Y-40A

Rating	Single Phase	Configuration	Approximate
Input Voltage	208V	WYE	40A
Output Voltage	240V	WYE	40A
Rated Power	9.6 KVA	WYE	100%
Max Input Range	20.8V	WYE	100%
Max Output Range	24.0V	WYE	100%

Autotransformer

CONFORMS TO IEC 60076-1
 IEC 60076-1:2000

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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