Summary

Three-phase wye buck-boost transformer. Steps down 427V to 400V at 66.7 amps continuous output. 46.21 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 427V three phase building supply to 400V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 400V that is installed on a 427V 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 66.7-amp buck-boost transformer is significantly smaller and lighter than a 66.7-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-427Y-400Y.231-67A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	**Transformer Type**	Buck/Boost
Capacity	46.21 kVA	**Configuration**	Encapsulated Autotransformer
Primary Voltage	427V	**Primary Termination**	Lead Wires & Terminal Lugs
Primary Amperage	62.50A	**Secondary Termination**	Lead Wires & Terminal Lugs
Secondary Voltage	400V	**Termination Access**	(6) 3/4" NPT Hubs
Secondary Amperage	66.7A	**Winding Material**	Aluminum
Maximum Primary OCP	80A	**Enclosure Material**	Steel
Frequency	50/60 Hz	**Finish Color**	ANSI 70 Light Grey
Insulation	180°C	**Weight**	180 lbs
Temperature Rise	115°C	**Dimensions**	7.68 x 6.38 x 12.2

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

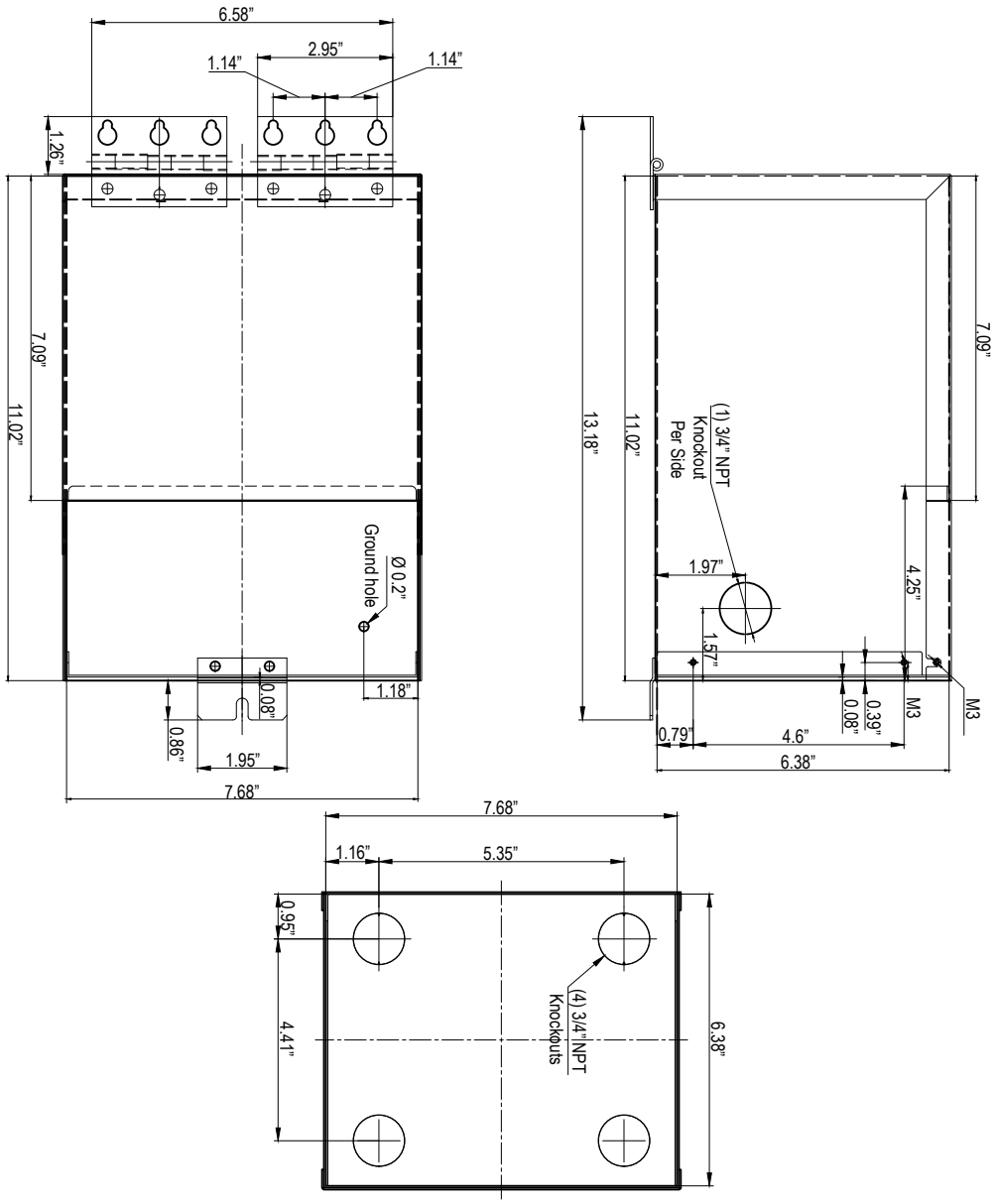
Common Applications

- **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 wye installation — (3) enclosures required.



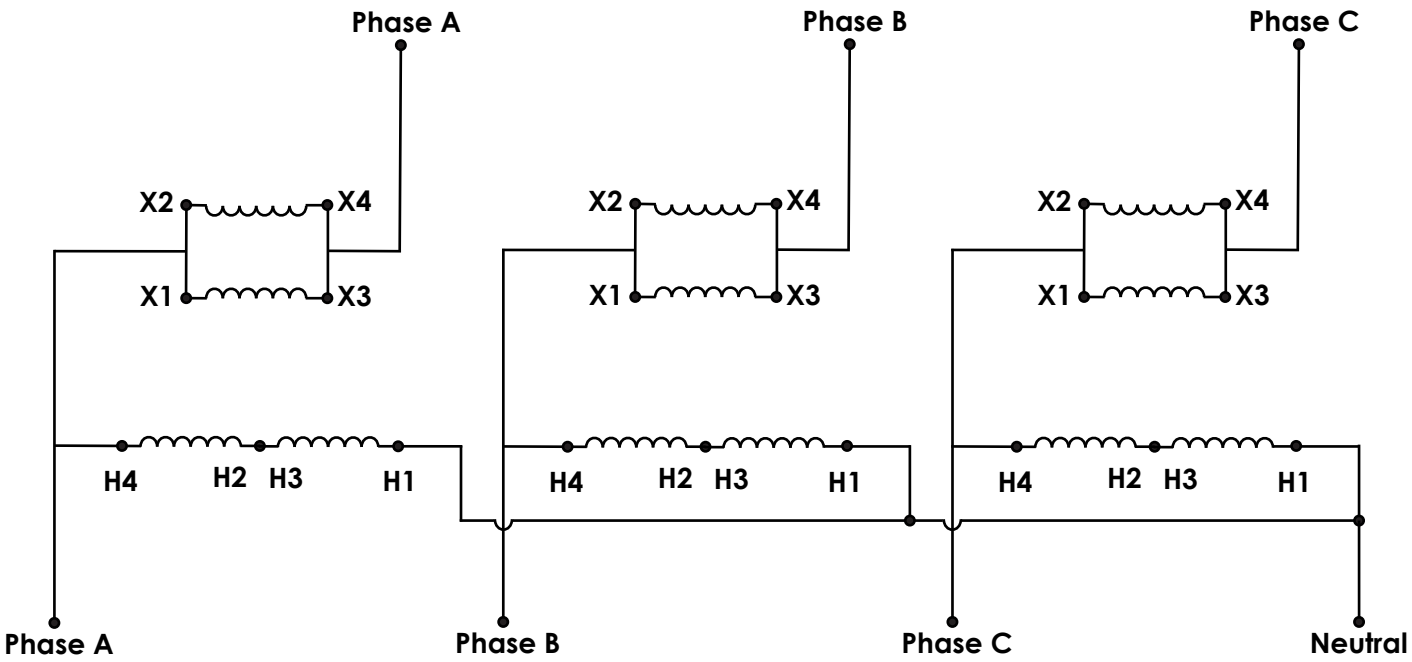
(4) 3/4" NPT Knockouts
Bottom (Underside) Plate

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

TX-BB-427Y-400Y.231-67A — NEMA 3R Encapsulated, cETLus Listed

Base Knockouts — (4) ¾" NPT

Side View

Rear View — Surface Mount Bracket

Wiring Compartment — Terminal Leads

Interior — Epoxy Resin Encapsulated Core