

Summary

Three-phase wye buck-boost transformer. Steps down 390V to 380V at 85.5 amps continuous output. 56.27 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 390V three phase building supply to 380V wye at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 380V that is installed on a 390V 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 85.5-amp buck-boost transformer is significantly smaller and lighter than a 85.5-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-390Y-380Y.220-86A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Wye (3-PH), AC	Transformer Type	Buck/Boost
Capacity	56.27 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	390V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	83.30A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	380V	Termination Access	(6) 3/4" NPT Hubs
Secondary Amperage	85.5A	Winding Material	Aluminum
Maximum Primary OCP	110A	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



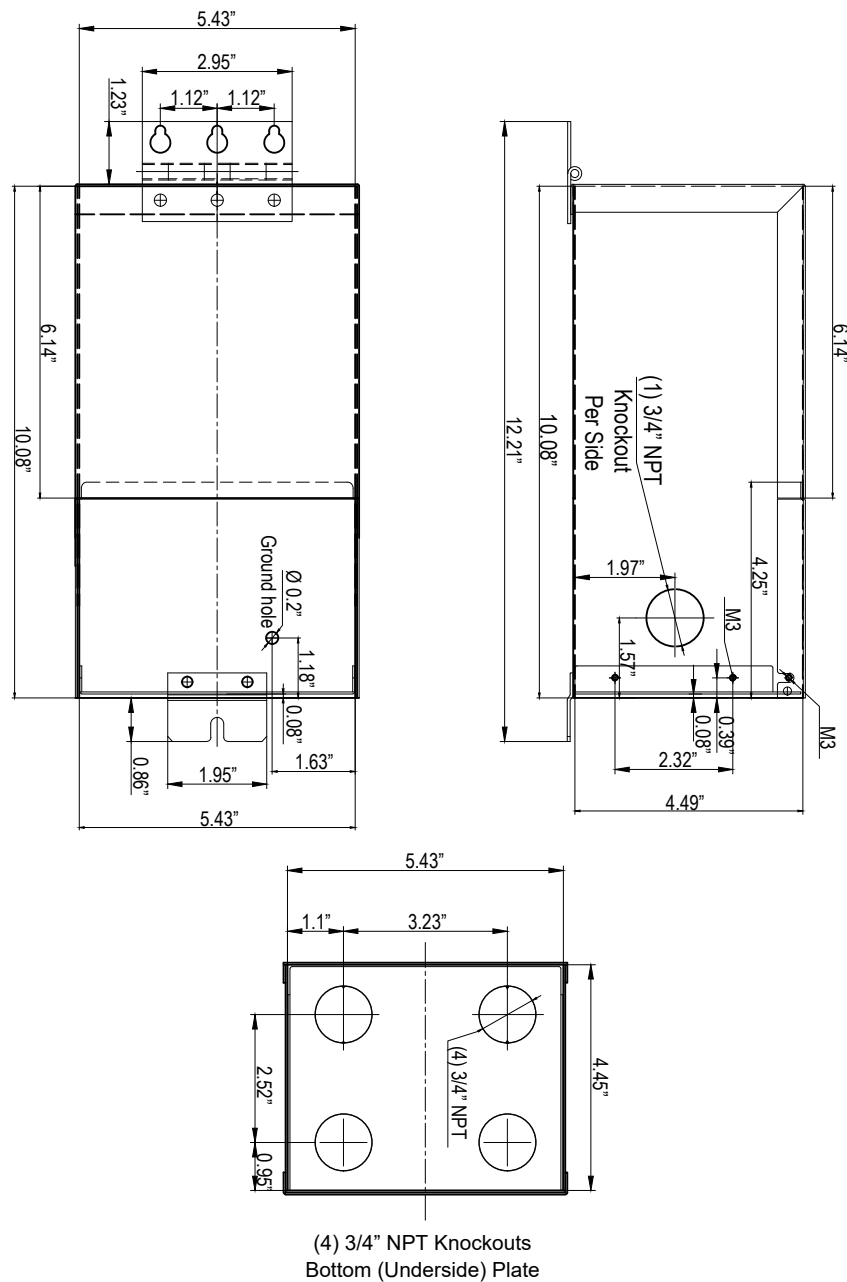
Common Applications

- 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.

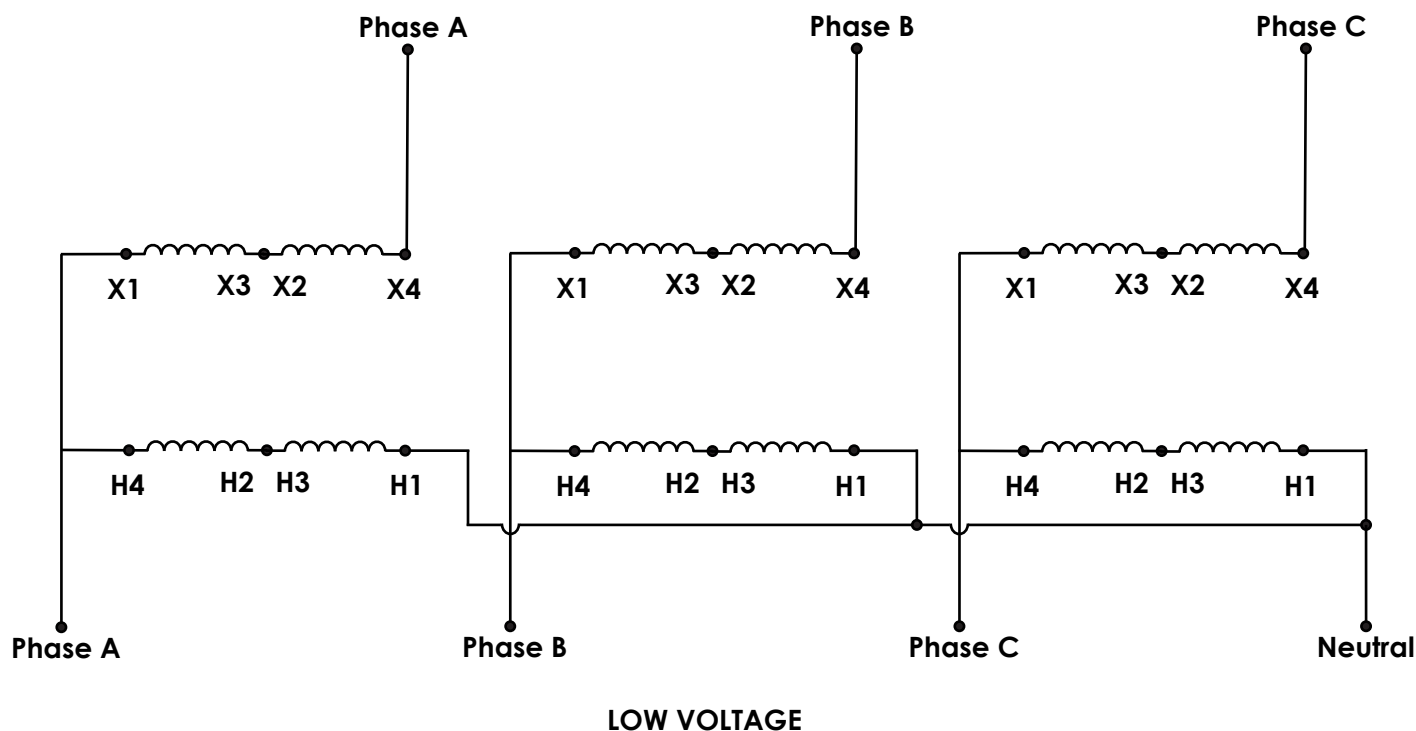


Connection Guide

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

DIAGRAM K2

HIGH VOLTAGE





Part # — TX-BB-390Y-380Y.220-86A

Buck-Boost Transformer Specification Sheet

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TX-BB-390Y-380Y.220-86A — 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