

Summary

Three-phase delta buck-boost transformer. Steps up 380V to 400V at 10.83 amps continuous output. 7.5 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 380V three phase building supply to 400V delta at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 400V that is installed on a 380V 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 10.83-amp buck-boost transformer is significantly smaller and lighter than a 10.83-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-380D-400D-7.5KVA — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Three Phase Delta (3-PH), AC	Transformer Type	Buck/Boost
Capacity	7.5 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	380V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	11.40A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	400V	Termination Access	(6) ½" NPT Hubs
Secondary Amperage	10.83A	Winding Material	Aluminum
Maximum Primary OCP	15A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	24 lbs
Temperature Rise	115°C	Dimensions	9.25"-W x 5.75"-D x 7.25"-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 **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 A
4. Connect High Voltage **PHASE C** to **X4**, **X3** on transformer B
5. Connect Low Voltage **PHASE A** to **X1**, **X2**, **H4** on transformer A
6. Connect Low Voltage **PHASE C** to **X1**, **X2**, **H4** on transformer B
7. Connect **H2** and **H3** together for each transformer
8. Connect High & Low Voltage **PHASE B** to **H1**
9. Bridge **H1** connections between Transformer A & B

DIAGRAM H2

HIGH VOLTAGE



LOW VOLTAGE



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The image shows two identical grey metal autotransformers standing side-by-side. Each unit has a top handle and a label with the following information:

SANZO SALES
TX-BB-208D-220D-20.83A

Phase	Single Phase	Configuration	Autotransformer
Input Voltage	208V	Max BCP	100A
Output Voltage	220V	Frequency	50/60 Hz
Maximum power	1.12 kVA	Insulation	180°C
Max Input Amps	24.0A	Temp Rise	110°C
Max Output Amps	20.8A	Windings	Aluminum

Endurance Type 40000 Hrs for Indoor or Outdoor Use
 Compliance to UL 508 Compliance to IEC 60084-21-08
 Shock & VIBRATION IEC 60068-2-27 IEC 60068-2-28

Autotransformer

CONFORMS TO UL 508, IEC 60084-21-08 & IEC 60068-2-27

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RECEIVED
 CONFORMS TO UL 508, IEC 60084-21-08 & IEC 60068-2-27

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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