

Summary

Single-phase buck-boost transformer. Steps down 380V to 362V at 32.8 amps continuous output. 11.87 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 380V building supply to 362V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 362V that is installed on a 380V system experiencing overvoltage.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 32.8-amp buck-boost transformer is significantly smaller and lighter than a 32.8-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-380V-362V-33A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	11.87 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	380V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	31.20A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	362V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	32.8A	Winding Material	Aluminum
Maximum Primary OCP	40A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	22 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-50 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.



Technical drawing of the Bottom (Underside) Plate, showing three views: Front View, Side View, and Top View.

Front View: The plate has a width of 5.43" and a height of 10.08". It features three mounting holes at the top, each with a diameter of 0.2". The distance between the centers of the top holes is 2.95". The distance from the center of the leftmost hole to the left edge is 1.23". The distance between the centers of the middle and rightmost holes is 1.12" each. The ground hole is located at the bottom center, with a diameter of 0.2". The distance from the center of the ground hole to the bottom edge is 1.18". The distance from the center of the ground hole to the right edge is 1.63". The distance from the center of the ground hole to the left edge is 1.95". The distance from the center of the ground hole to the bottom edge is 0.86".

Side View: The plate has a height of 6.14" and a width of 12.21". It features a (1) 3/4" NPT Knockout Per Side. The distance from the center of the knockout to the side edge is 1.97". The distance from the center of the knockout to the bottom edge is 1.57". The distance from the center of the knockout to the top edge is 4.25". The distance from the center of the knockout to the right edge is 0.39". The distance from the center of the knockout to the left edge is 0.08". The distance from the center of the knockout to the bottom edge is 2.32". The distance from the center of the knockout to the top edge is 4.49".

Top View: The plate has a width of 5.43" and a height of 4.45". It features four 3/4" NPT knockouts arranged in a 2x2 grid. The distance between the centers of the top two knockouts is 3.23". The distance between the centers of the bottom two knockouts is 3.23". The distance from the center of the top-left knockout to the left edge is 1.1". The distance from the center of the top-right knockout to the right edge is 1.1". The distance from the center of the bottom-left knockout to the left edge is 1.1". The distance from the center of the bottom-right knockout to the right edge is 1.1". The distance from the center of the top-left knockout to the top edge is 2.52". The distance from the center of the bottom-left knockout to the bottom edge is 0.95".

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

Connection Guide

1. Connect **X4** and **X3** together
2. Connect **X2** and **X1** together
3. Connect High Voltage **L1** to **X4**, **X3**
4. Connect Low Voltage **L1** to **X1**, **X2**, **H4**
5. Connect **H3** and **H2** together
6. Connect High & Low Voltage **L2** to **H1**

DIAGRAM C2





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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