

Summary

Single-phase buck-boost transformer. Steps up 347V to 382V at 31.2 amps continuous output. 11.92 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 347V building supply to 382V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 382V that is installed on a 347V system.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 31.2-amp buck-boost transformer is significantly smaller and lighter than a 31.2-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-347V-382V-31A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	11.92 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	347V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	34.30A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	382V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	31.2A	Winding Material	Aluminum
Maximum Primary OCP	50A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	34 lbs
Temperature Rise	115°C	Dimensions	5.43 x 4.49 x 10.87

Ratings & Certifications

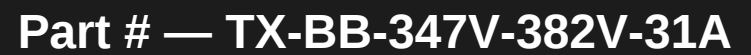
- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



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 of a 1000W, 12VDC power supply. The drawing includes three views: a top view, a side view, and a bottom view.

Top View: The plate is rectangular with overall dimensions of 5.43" (width) by 6.93" (height). It features three mounting holes with a diameter of 0.2" spaced 1.12" apart. A ground hole with a diameter of 0.2" is located 1.18" from the right edge and 1.63" from the bottom edge. The plate is 0.08" thick.

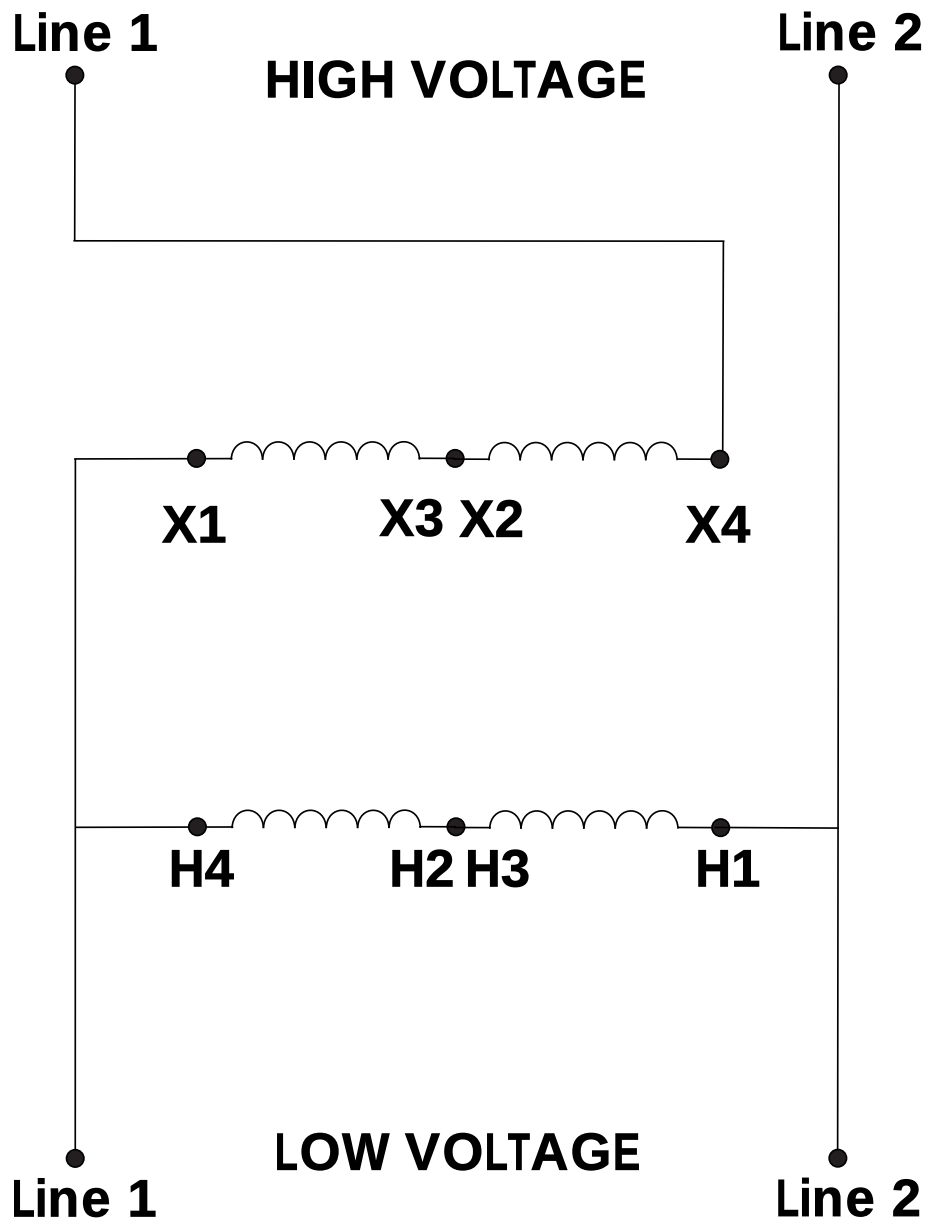
Side View: The plate is 0.08" thick. The mounting holes are located 1.12" from the left edge and 1.12" from the right edge. The ground hole is located 1.18" from the right edge and 1.63" from the bottom edge.

Bottom View: The plate is rectangular with overall dimensions of 5.43" (width) by 4.45" (height). It features four 3/4" NPT knockouts. The knockouts are located 1.1" from the left edge and 3.23" from the right edge. The plate is 0.08" thick.

Connection Guide

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

DIAGRAM D2





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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