



Summary

Single-phase buck-boost transformer. Boosts 208V to 240V at 20 amps continuous output. 4.16 kVA capacity. Pre-wired unit. 208V Primary, 8' Line-In w/ 6-20P. 240V Secondary, 4' Line-Out w/ 6-20C. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 208V building supply to 240V at the point of use, by permanently boosting the circuit voltage, without modifying the building's electrical service. Designed for equipment rated 240V that is installed on a system experiencing undervoltage from the utility.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 20-amp buck-boost transformer is significantly smaller and lighter than a 20-amp isolation transformer. The encapsulated core construction eliminates audible hum and provides stable thermal performance under continuous duty.

Features pre-wired 8' line-in and 4' line-out cords terminated in NEMA 6-20 straight blade cord caps. Surface mounting bracket for easy wall mount installations.

This step up transformer is ideal for quick installs at point of use for equipment specific applications.



TX-BB-208V-240V-20A-8.4-6.20 — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	4.16 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	208V	Primary Termination	8' 12/3 SJOOW Cord w/ NEMA 6-20P Plug
Primary Amperage	20A	Secondary Termination	4' 12/3 SJOOW Cord w/ NEMA 6-20C Connector
Secondary Voltage	240V	Termination Access	Factory wired leads w/ cord caps
Secondary Amperage	17.63A	Winding Material	Aluminum
Maximum Primary OCP	30A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	31 lbs
Temperature Rise	115°C	Dimensions	5.43"-W x 4.49"-D x 10.08"-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



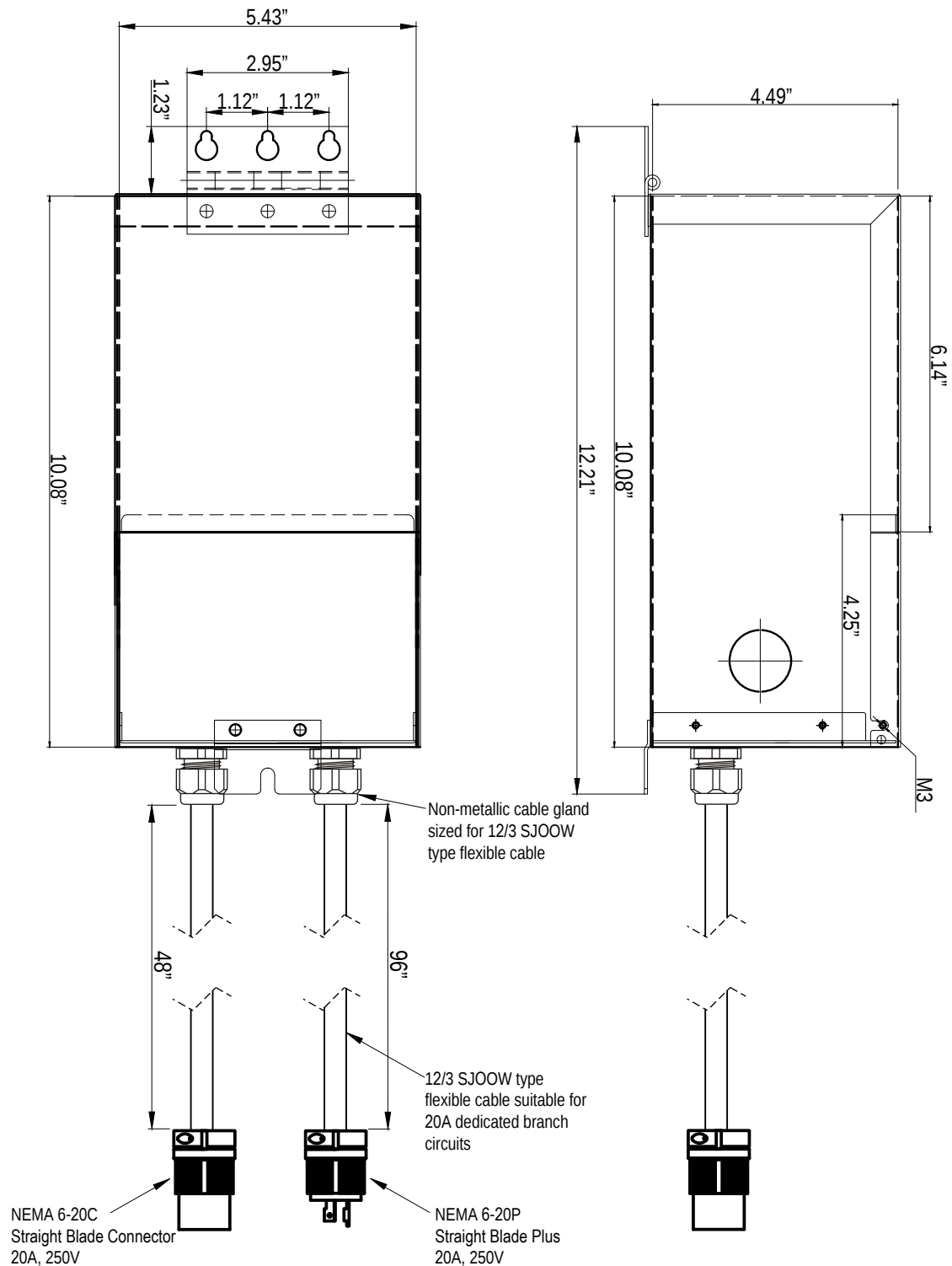
Common Applications

- 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.

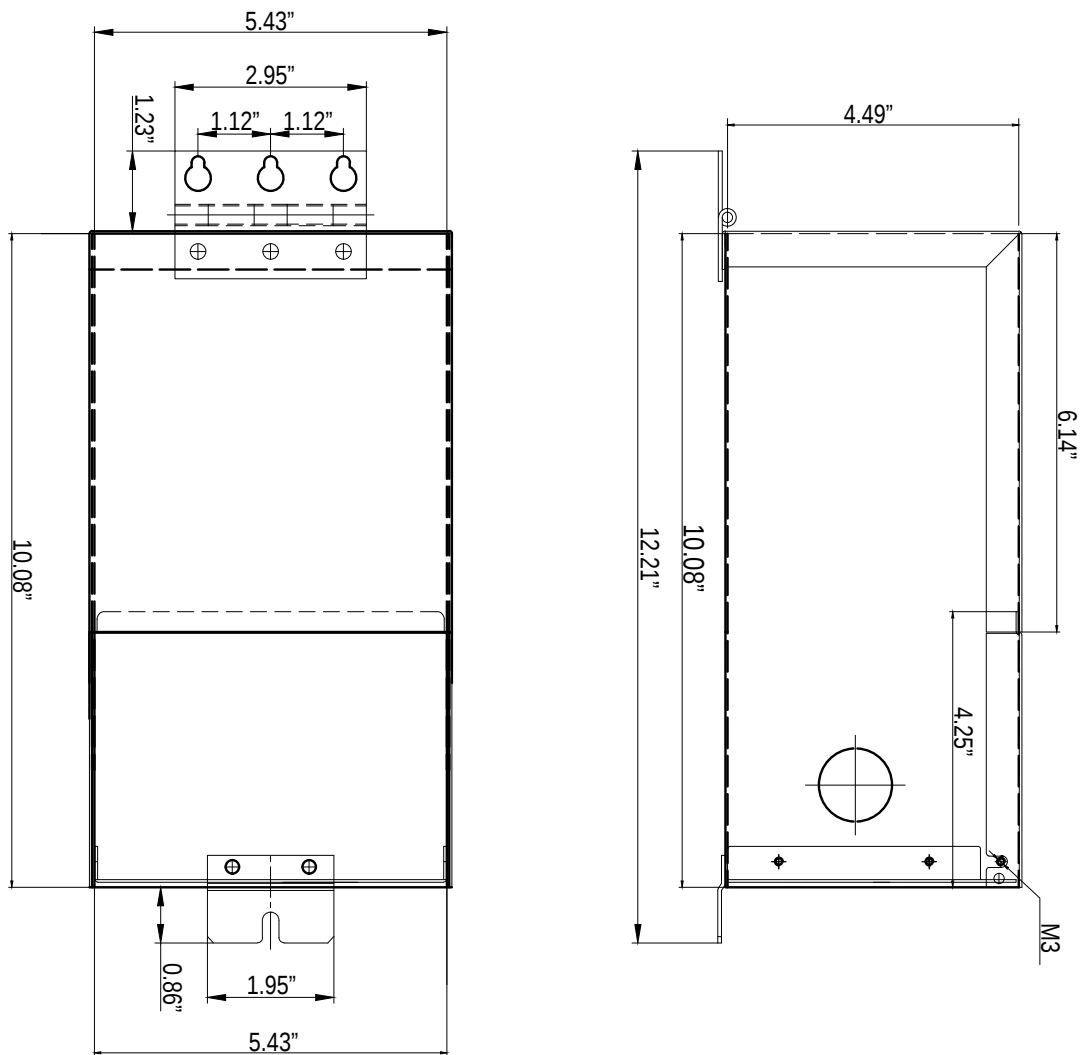


Product Dimensions





Mounting Dimensions



Connection Guide

This transformer is equipped with the below cord caps:



NEMA 6-20P PLUG
FRONT VIEW



SIDE VIEW



NEMA 6-20C CONNECTOR
FRONT VIEW



SIDE VIEW



Part # — TX-BB-208V-240V-20A-8.4-6.20

Buck-Boost Transformer Specification Sheet

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TX-BB-208V-230V-30A-8.4-L6.30 — NEMA 3R Encapsulated, cETLus Listed



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Base Knockouts — (4) 3/4" NPT



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Side View



Part # — TX-BB-208V-240V-20A-8.4-6.20

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Rear View — Surface Mount Bracket