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TX-BBT-3P-200V-230V-50A

Portable 3 Phase Buck/Boost Transformer - 200V Primary- 230V Secondary - 50 A - 50/60Hz

Product ID: 324707

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

TX-BBT-3P-200V-230V-50A Portable Buck and Boost Step-Up Transformer

Transformer Type: Buck/Boost Step-Up Transformer
Phase: Three Phase
Frequency: 50/60 Hz
Input Voltage: 200 V AC
Primary Amps: 57.50A @ 200 V
Primary Configuration: Two winding
kVA: 19.91
Output Voltage: 230 V AC
Secondary Amps: 50A @ 230 V
Voltage Difference: 85%
Primary Configuration: Two winding
Winding Material: Aluminum
Knockouts: Side and rear
Primary Termination: Front access copper tabs
Secondary Termination: Front access copper tabs
Cooling: Air / Dry Type
Insulation: 180°C
Temperature Rise: 115°C
Sound Level: 36 dB
Enclosure Rating: NEMA 3R
Encapsulation: Silica sand, resin compounds
Enclosure Material: Steel
Finish: ANSI 61 Grey Finish
Mounting: Aluminum A-frame Base Stand - Glossy Blue Powder Coat Finish
Dimensions: 7"H x 6.5"W x 11.75"D
Weight: 36 lb

Ratings

NRTL Listed for United States and Canada
IP14 Rated
NEMA 3R Indoor/Outdoor Enclosure
Meets or Exceeds NEMA ST-20 Standards
Portable Buck and Boost Step-Up Transformer

Special Orders - Special Requirements

Contact us for special requirements
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The TX-BBT-3P-200V-230V-50A portable three phase step-up Buck and Boost Transformer from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the TX-BBT-3P-200V-230V-50A provides increased reliability, higher efficiency, protection against critical equipment failures and an extra level of protection by isolating the power source from the connected device. The lower operating costs, lower heat emissions and lower cost of ownership make this transformer ideal for a wide range of applications and

businesses. This portable buck boost transformer is mounted to an aluminum A-frame.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: The TX-BBT-3P-200V-230V-50A portable buck and boost transformer is a three phase unit with a 19.91 kVA rating and a primary voltage of 200 V AC using a maximum of 57.50 amps on the primary side. This step-up transformer has a secondary voltage of 230 V AC and provides up to 50 amps available on the secondary side. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

This portable unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The NEMA 3R painted steel enclosure makes the unit suitable for both indoor and outdoor applications, and this step-up transformer is mounted to a portable aluminum A-frame. The TX-BBT-3P-200V-230V-50A features a 180°C insulation with a 115°C temperature rise.

Construction: The aluminum winding in the TX-BBT-3P-200V-230V-50A are formed from high quality aluminum wire help to improve performance. The close tolerances used during manufacturing also eliminates burrs which hinder performance. Each core is specially coated to prevent the ingress of moisture and are electrically balanced to minimize axial forces during short circuit situations. Buck and boost transformers are designed to maximize the performance and life of electrical equipment. The TX-BBT-3P-200V-230V-50A is encapsulated in silica sand and resin, and cased in a NEMA 3R steel enclosure. NEMA 4, NEMA 4X, and NEMA 12 enclosures are available upon request.



Click Image to Enlarge

Benefits: The TX-BBT-3P-200V-230V-50A portable buck/boost step-up transformer offers many benefits to the consumer. Buck/boost transformers pass the majority of the load voltage directly through the transformer, only transforming a small percentage of the load. Due to this technology, a smaller and quieter step-up transformer is manufactured and uses less materials. This provides owners with significant energy savings as well as offering environmental benefits.

Higher efficiency not only extends the life of the transformer, but also turn into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Installation and maintenance costs are reduced due to the smaller form factor, and less overall space requirements are decreased. In addition, these step-up transformers operate quieter than a standard autotransformer of the same capacity.

Mounting: The TX-BBT-3P-200V-230V-50A is mounted to an aluminum A-frame base stand that allows for portability. The base stand is finished in a glossy blue powder coat finish.

Installation: Knockout hubs on either side and the bottom of the transformer allow for easy line-in and line-out wiring.

Applications: Air conditioners, lighting systems, heating elements, motor applications and other applications that that require the ability to power loads that differ from the available line voltage.

Limitations: While there are many benefits to a buck/boost transformer, there are some limitations to consider. This transformer will only transformer voltage, it will not convert phases, it will not create even legs between line 1 and line 2 (L1 and L2 WILL be UNEVEN), has no circuit isolation, and does not create a neutral for applications where a neutral is not already present. If any of these limitations apply to you, you will need a standard transformer. Please see below link for our standard line of industrial transformers or our line of phase converters.

Note on Phases: This buck/boost transformer is a three phase step-up transformer. For other three phase transformers, click on the following links:
Three Phase Delta Buck/Boost Transformers
Three Phase Wye Buck/Boost Transformers

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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Frequently Asked Questions (FAQ)

There are no Faqs

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)