Larson Electronics LLC
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MT-BBT-208V-230V-25A-SS-N4X

1-Phase Buck/Boost Step-Up Transformer - 208V Primary - 230V Secondary - 25 Amps, 50/60Hz - SS/N4X

Product ID: 338349

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

Image: MT-BBT-208V-230V-25A-SS-N4X

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.

MT-BBT-208V-230V-25A-SS-N4X Buck and Boost Step-Up Transformer

Transformer Type: Buck/Boost step-up Autotransformer
Phase: Single Phase
Frequency: 50/60 Hz
Input Voltage: 208V AC
Primary Amps: 27.64A @ 208V
Primary Configuration: Two winding
kVA: 5.75
Output Voltage: 230V
Secondary Amps: 25A @ 230V
Voltage Difference: 90%
Primary Configuration: Two winding
Winding Material: Copper
Knockouts: Side and rear
Primary Termination: Front access copper tabs or lead wires
Secondary Termination: Front access copper tabs or lead wires
Cooling: Air / Dry Type
Insulation: 130°C
Temperature Rise: 80°C
Sound Level: 36 dB
Enclosure Rating: NEMA 4X

Ratings

UL listed for United States
CSA certified for Canada
NEMA 4X Indoor/Outdoor Enclosure
Meets or Exceeds NEMA ST-20 Standards
Buck and Boost Step-Up Transformer

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Encapsulation: Silica sand, resin compounds
Enclosure Material: Stainless Steel
Finish: Natural Finish
Mounting: Wall mount via mounting tabs
Dimensions: 9.25"L x 4.75"W x 5"H
Weight: 18 lbs

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

The MT-BBT-208V-230V-25A-SS-N4X single 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 MT-BBT-208V-230V-25A-SS-N4X 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.

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

Transformer Features: The MT-BBT-208V-230V-25A-SS-N4X buck and boost transformer is a single phase unit with a 5.75 KVA rating and a primary voltage of 208V AC using a maximum of 27.64 amps on the primary side. This step-up transformer has a secondary voltage of 230V and provides up to 25 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 unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The NEMA 4X stainless steel enclosure makes the unit suitable for both indoor and outdoor applications, and this step-up transformer can be either floor or wall mounted. The MT-BBT-208V-230V-25A-SS-N4X features a 130°C insulation with a 80°C temperature rise.

Construction: The copper winding in the MT-BBT-208V-230V-25A-SS-N4X are formed from high quality magnetic copper 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 MT-BBT-208V-230V-25A-SS-N4X is encapsulated in silica sand and resin, and cased in a NEMA 4X stainless steel enclosure. NEMA 3R, NEMA 4, and NEMA 12 enclosures are available upon request.

Click Image to Enlarge

Benefits: The MT-BBT-208V-230V-25A-SS-N4X 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: Integrated wall mounting brackets make installation fast and easy. Because of the smaller overall footprint, heavy machinery is rarely needed for mounting and installation.

Installation: Installation is simple. Connect the primary leads and secondary leads to the step-up transformer per the provided wiring diagram. 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 single phase step-up transformer. For 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

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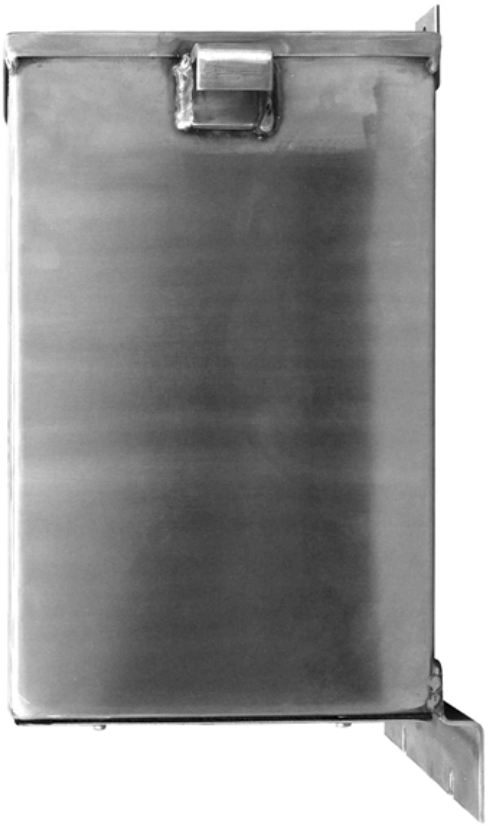

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Warranty: 36 Months.

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/338349.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/338349.ZIP)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/338349.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/338349.JPG)
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- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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