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MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX

1-Phase Prewired Buck/Boost Step-Up Transformer - 208V Primary - 220V Secondary - 9.38 Amps - 50/60Hz - 2.5' 16A M/F True-1 type SAC3MX/FX Connectors

Product ID: 306907



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-220V-9.38A-2X2.5-SAC3MX-SAC3FX Buck and Boost Step-Up Transformer

Transformer Type: Buck/Boost Step-Up Autotransformer
Phase: Single Phase
Frequency: 50/60 Hz
Input Voltage: 208 V
Primary Amps: 10.01 A @ 208 V
Primary Configuration: Two Winding
kVA: 2.08
Output Voltage: 220 V
Secondary Amps: 9.38 A @ 220 V
Voltage Difference: 95%
Winding Material: Aluminum
Knockouts: Side and Rear
Wiring: Prewired with (2) 2.5' 12/3 Whips w/ Cord Caps (One on Each Side)
Cord Caps: (1) 16A 250V Male True-1 type SAC3MX Connector on Primary Side; (1) 16A 250V Female True-1 type SAC3FX Connector on Secondary Side
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 / UL50
Mounting: Wall Mount Via Mounting Tabs
Dimensions: 7.19"H x 3.69"W x 5.06"D
Weight: 8 lb

Ratings

UL Listed for United States
CSA Certified for Canada
NEMA 3R Indoor/Outdoor Enclosure
Meets or Exceeds NEMA ST-20 Standards
Buck and Boost Step-Up Transformer

Special Orders - Special Requirements

Contact us for special requirements
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The MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX Single Phase Step-Up Buck and Boost Prewired 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-220V-9.38A-2X2.5-SAC3MX-SAC3FX 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. The MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX is a prewired transformer for customer installation and is equipped with 2.5' of 12/3 cables on each side connected to the transformer with a 16 amp 250V True-1 type SAC3MX male connector on the primary side and a 16 amp 250V True-1 type SAC3FX female connector on the secondary side.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*
Transformer Features: The MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX buck and boost transformer is a single phase unit with a 2.08 kVA rating and a primary voltage of 208 V using a maximum of 10.01 amps on the primary side. This step-up transformer has a secondary voltage of 220 V and provides up to 9.38 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 prewired 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 can be either floor or wall mounted. The MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX features a 180°C insulation with a 115°C temperature rise.
Construction: The aluminum winding in the MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX 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 MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX 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 MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX 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.
Wiring/Installation: The MT-BBT-208V-220V-9.38A-2X2.5-SAC3MX-SAC3FX is equipped with 2.5' 12/3 whips on both the primary and secondary sides. The primary side whip is equipped with a 16 amp 250V True-1 type SAC3MX male connector and the secondary side whip is equipped with a 16 amp 250V True-1 type SAC3FX female connector. This transformer makes installation simple. Operators connect them to the corresponding current.
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 Voltage Generation: Buck/boost transformers, like this unit, do NOT generate even legs of voltage on the secondary side. The generate voltage legs will always be unbalanced. This is acceptable for some situations, but other situations call for even legs on the secondary side. This simply cannot be achieved with a buck/boost transformer.

If your specific situation requires even legs of voltage on the secondary side, you will have to consider either a split phase buck/boost transformer or a standard industrial transformer. Larson Electronics has a wide range of both available for purchase:

Split Phase Buck/Boost Transformers

Standard Industrial Transformers
Note on Phases: This buck/boost transformer is a single phase step-up transformer. For three phase transformers, click on the following links:

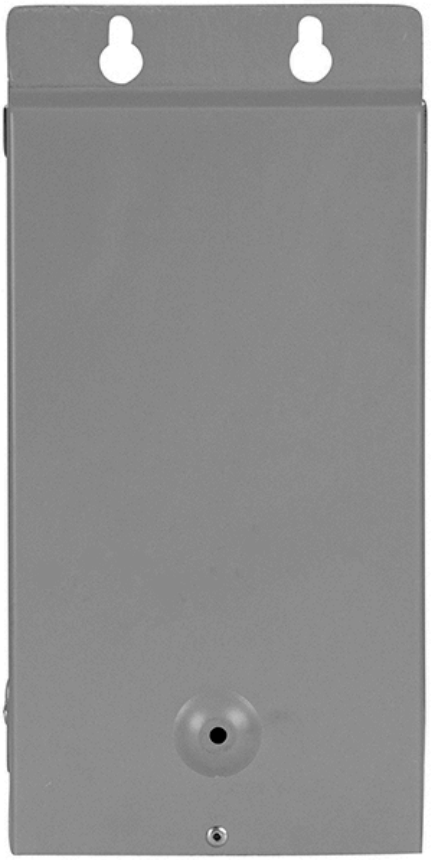
Three Phase Delta Buck/Boost Transformers

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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ELECTRONICS
Input Voltage:
Output Voltage:
kVA:
Temp. Rise:
Insulation:
Frequency:
Encl. Type:
NRTL listed for United States
NRTL listed for Canada
Built to NEMA ST-20 Standards
Built to UL-50 Standards
Certified ISO 9001:
2015 Quality System
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WARNING
Hazardous voltage can shock, burn or cause death. Disconnect all input power before installing or maintaining this equipment.
La tension électrique peut électriser, brûler, ou causer la mort Déconnecter la tension d'entrée avant d'ouvrir le boîtier
General Purpose Transformer
A46
MISTER


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Frequently Asked Questions (FAQ)