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MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20P-L14-20R

1-Phase Buck/Boost Step-Up Prewired Transformer - 208V Primary - 240V Secondary - 23.44 Amps - 50/60Hz - (2) 2' 12/4 SOOW Whips w/ L14-20P Plug & L14-20R Receptacle

Product ID: 299214



Image: MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20P-L14-20R

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.

MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 Buck and Boost Step-Up Prewired Transformer

Transformer Type: Buck/Boost step-up Prewired Autotransformer
Phase: Single Phase
Frequency: 50/60 Hz
Input Voltage: 208 V AC
Primary Amps: 26.59 A @ 208 V AC
Primary Configuration: Two winding
kVA: 5.53
Output Voltage: 240 V AC
Secondary Amps: 23.44 A @ 240 V AC
Voltage Difference: 86%
Primary Configuration: Two winding
Winding Material: Aluminum
Wiring: Prewired with (2) 2' 12/4 SOOW Whips (One on each side) w/ Cord Caps
Wiring: 20 Amp L14-20P Male Twist Lock Plug on Primary Side; 20 Amp L14-20R Female Receptacle on Secondary Side
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 3R
Encapsulation: Silica sand, resin compounds
Enclosure Material: Steel

Ratings

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

Special Orders - Special Requirements

Finish: ANSI 61 Grey
Mounting: Wall mount via mounting tabs
Dimensions: 9.30"H x 5.06"W x 4.56"D
Weight: 36 lb

Contact us for special requirements
Toll Free: 1-800-369-6671
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The MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 single phase step-up prewired 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 MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 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 MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 is a prewired transformer for customer installation and is equipped with 2' of 12/4 SOOW cable on each side connected to the transformer with a 20 amp L14-20P male twist lock plug on the primary side and a 20 amp L14-20R female receptacle on the secondary side.

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

Transformer Features: The MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 buck and boost transformer is a single phase unit with a 5.53 kVA rating and a primary voltage of 208 V AC using a maximum of 26.59 amps on the primary side. This step-up transformer has a secondary voltage of 240 V AC and provides up to 23.44 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 3R painted steel enclosure makes the unit suitable for both indoor and outdoor applications, and this step-up transformer can be wall mounted. The MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 features a 130°C insulation with a 80°C temperature rise.

Construction: The aluminum winding in the MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 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 MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 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 MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 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 MPD-MT-BBT-208V-240V-23.44A-2X2FT-L14.20 is equipped with 2' 12/4 SOOW whips on both the primary and secondary sides. The primary side whip is equipped with a 20 amp L14-20 male twist lock plug and the secondary side whip is equipped with a 20 amp 6-20C female connector. This transformer makes installation simple. Operators connect them to the corresponding current. For example, the 208 V whip gets connected to 208 V 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 Phases: This buck/boost transformer is a single phase step-up transformers. 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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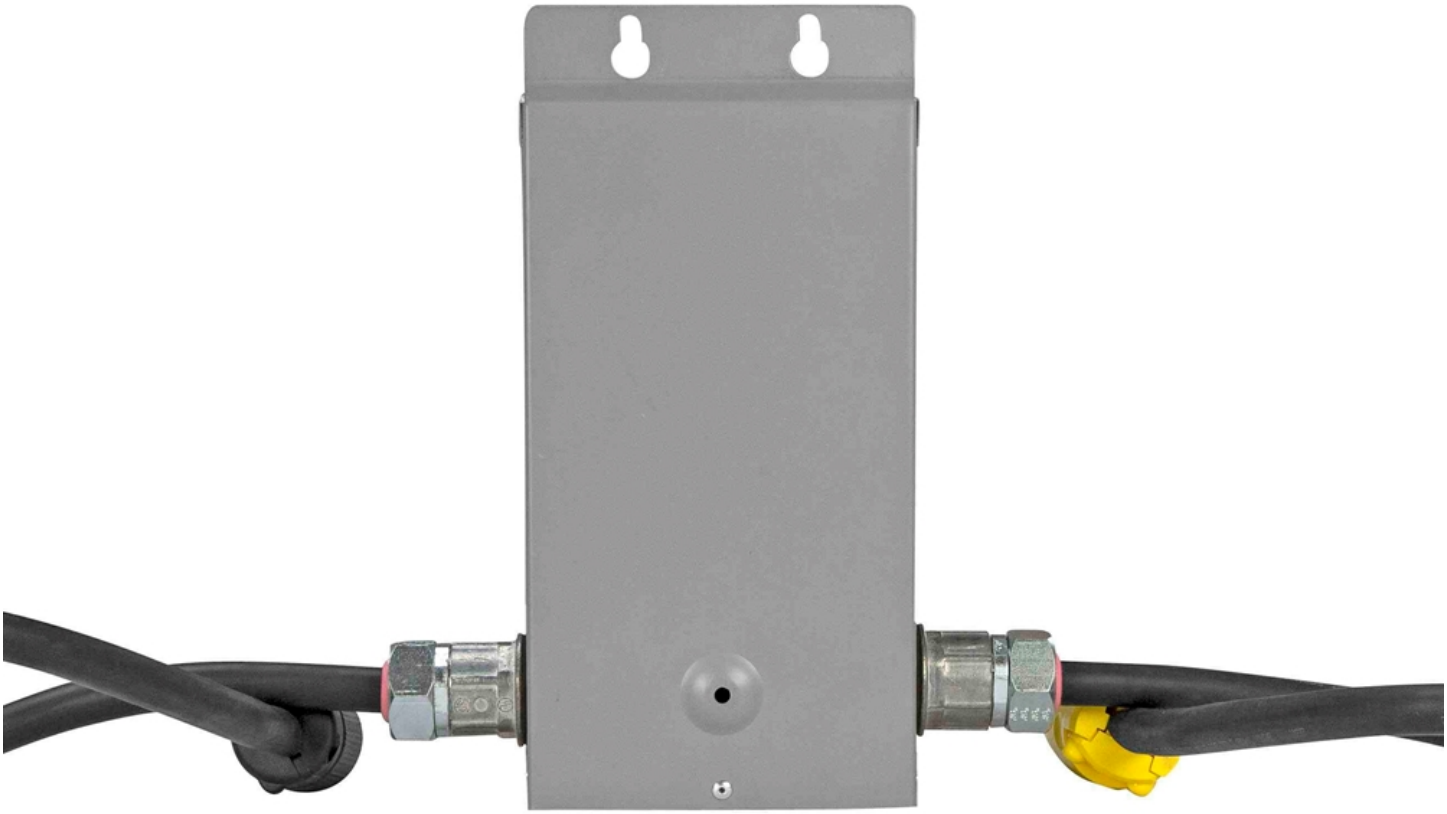
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Frequently Asked Questions (FAQ)

There are no Faqs