

MPD-BBT-CB-575D-460D-3P-20.41A-15AB

3PH Delta Buck/Boost Step-Down Portable Autotransformer - 575V Primary, 460V Sec - 20.41A - Fused on Primary & Secondary - 60Hz

Product ID: 281030

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.

MPD-BBT-CB-575D-460D-3P-20.41A-15AB Buck/Boost Step-Down Portable Autotransformer

Phase: Three Phase
Frequency: 50/60 Hz
kVA: 16.26
Transformer Type: Portable Buck/Boost Step-Down
Input Voltage: 575 V AC Delta
Primary Amps: 16.33 A @ 575 V
Primary Configuration: Delta
Primary Breaker(s): 20A 3P MCB [600V]
Output Voltage: 460 V AC Delta
Secondary Amps: 20.41 A @ 460 V
Secondary Breaker(s): 15A 3P MCB [480V]
Winding Material: Copper
NEMA Rating: NEMA 3R
Primary Termination (Std): Wire Leads
Secondary Termination (Std): Wire Leads
Insulation: 180°C
Temperature Rise: 115°C
Sound Level: Meets NEMA ST-20 Standards
Enclosure Material: NEMA Type 3R
Finish: Painted Steel
Dimensions: 12.00"-L x 6.00"-W x 12.00"-H
Weight: 50 lb

Ratings

NRTL Listed for United States
CSA Certified
NRTL Listed to UL 1640
Rated for Indoor/Outdoor Environments
Portable Buck and Boost Transformer
Fused on Primary & Secondary
Designed for Easy Portability

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

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The MPD-BBT-CB-575D-460D-3P-20.41A-15AB Three Phase Energy Efficient Buck and Boost 50/60Hz Prewired Portable Transformer from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MPD-BBT-CB-575D-460D-3P-20.41A-15AB provides increased reliability, portability, 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-BBT-CB-575D-460D-3P-20.41A-15AB is designed for portability and is NRTL certified to UL 1640 for portable power distribution.

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

Transformer Features: With a transformer rating of 16.26 kVA, the MPD-BBT-CB-575D-460D-3P-20.41A-15AB portable buck and boost transformer is a three phase unit with a primary voltage of 575 V AC Delta and 16.33 amps on the input side. It also provides a secondary voltage of 460 V AC Delta and has 20.41 amps available on the secondary side. Featuring robust construction, this portable unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

Operation:

- Primary Voltage: 575 V AC Delta 3PH
- Primary Breaker(s): 20A 3P MCB [600V]
- Secondary Voltage: 460 V AC Delta 3PH
- Secondary Breaker(s): 15A 3P MCB [480V]

*See specification table at the top of the page for more information about the buck/boost step-down autotransformer.

Breakers: The MPD-BBT-CB-575D-460D-3P-20.41A-15AB is equipped with breakers on both the primary and secondary sides for protecting equipment. On the primary side, there is a 20-amp, 3-pole miniature circuit breaker. The secondary side contains a 15-amp, 3-pole miniature circuit breaker.

This portable unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean that less cooling is needed as well. The NEMA 3R painted steel enclosure makes this portable transformer suitable for both indoor and outdoor applications and it can be wall mounted. This unit features 180°C insulation with a 115°C temperature rise.

Benefits: The MPD-BBT-CB-575D-460D-3P-20.41A-15AB portable buck and boost three phase transformer offers many benefits to the consumer. Precision cut copper transformer winding material helps 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.

Buck and boost transformers are a type of transformer that are designed to make adjustments to the voltage applied to alternating current equipment. These transformers can either step up (boost) the input voltage or step down (buck) the input voltage to the appropriate level for the specific application. Buck and boost transformers are used to make small changes of less than thirty percent to the voltage coming in.

Please note that a buck and boost transformer can only change voltage and NOT frequency or phase.

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](#).

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.

Note on Phases: This portable buck/boost transformer is a three phase Delta step-up transformers. For single phase transformers or three phase Wye transformers, click on the following links:

[Single Phase Buck/Boost Transformers](#)

[Three Phase Wye Buck/Boost Transformers](#)

This portable transformer provides owners with significant energy savings as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also turns into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Integrated wall mounting brackets make installation fast and easy.

Applications: Air conditioners, lighting systems, heating elements, uninterruptible power supply (UPS) units for computers, motor applications, and other applications that require the ability to power loads that differ from the available line voltage.

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.



Frequently Asked Questions (FAQ)



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Product ID: 281030

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- [ANSI Certificate 1](#)
- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 5, Misc](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [STEP File \(3D CAD Model\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)