

MT-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1

1.5 MVA Phase Converter Transformer Transformer, 12470V Delta 3PH Primary, 7200V 1PH Line-Neutral Secondary, NEMA 3R

Product ID: 301555



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-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1 Phase Converter Autotransformer

Transformer Type: Phase Converter Transformer

Frequency: 60 Hz

kVA: 1.5 MVA (1500 kVA)

Primary Voltage: 12470V AC Delta

Primary Phase: Three Phase

Secondary Voltage: 7200V Line-Neutral

Secondary Phase: Single Phase

Vector Group: D-II6

Taps: N/A

Max Continuous Amperage Per Leg: N/A

Insulation: N/A

Temperature Rise: N/A

Impedance (Std): -

Primary Termination: -

Secondary Termination: -

Sound Level: Meets NEMA ST-20 Standards

Winding Material: Aluminum

Enclosure Material: NEMA Type 3R Heavy Duty Ventilated

Finish: ANSI 61 Grey Finish

Mounting: Pad Mount / Floor Mount

Dimensions: (*Please note that dimensions are approximate and subject to change*)
74.80"-L x 59.05"-W x 86.61"-H

Weight: (*Please note that weight is approximate and subject to change*) 6,503 lb

Ratings

NRTL Listed for United States and Canada

Special Orders- Requirements

Contact us for special requirements

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The MT-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1

Phase Converter Transformer from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the unit provides increased reliability, high efficiency, and protection against critical equipment failures. The autotransformer does not provide isolation for the primary and secondary sides due to a shared winding configuration.

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

Transformer Features: With a transformer rating of 1.5 MVA (1500 kVA), the MT-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1 phase converter transformer features three-phase 12470V AC Delta on the primary side and single-phase 7200V Line-Neutral 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.

Phase Converter Transformer: This phase converter transformer is a specialized transformer configuration used for converting between two-phase and three-phase power systems. It consists of two sets of windings: one set is connected in a delta configuration, while the other set is divided into two parts, one connected in a star configuration and the other in series with the delta winding. This arrangement enables efficient conversion between the two-phase and three-phase power systems without requiring additional equipment like phase converters.

Phase Converter Transformer Benefits: This type of phase converter transformer efficiently converts between two-phase and three-phase power without significant losses while its compact design saves space and ensures compatibility with existing power systems. Its reliability and flexibility accommodate varying load conditions. Overall, this phase converter transformer is valued for its efficiency, cost-effectiveness, space-saving design, reliability, compatibility, and flexibility in industrial and utility applications.

Further Benefits: The MT-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1 autotransformer offers many benefits to the consumer. Precision cut aluminum transformer winding material 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. This autotransformer 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. Integrated mounting brackets make installation fast and easy and the offset outward facing installation holes allow for easy power tool access.

Safety: The MT-PDT-VPM-ST-3P.1P-DMR-1.5MVA-SNC-A6-DZ-CZ-1Z-ZZ-Z-N3R-M1 is an autotransformer which means that it has the ability to adjust the supply voltage to match specific load requirements when load isolation from the supply line is not required. Autotransformers are typically used in distribution systems that require small voltage corrections during operation.

Please note that this autotransformer does NOT provide any form of isolation.

Non-Isolation Considerations: Auto transformers, lacking complete electrical isolation between primary and secondary windings, pose several downsides. They lack galvanic isolation, increasing the risk of electric shock and equipment damage, especially in safety-critical applications. Noise and interference from one winding can transfer to the other, potentially affecting connected equipment. Additionally, auto transformers have limited voltage regulation capabilities compared to isolation transformers, and they may present challenges with grounding, leading to safety hazards and electrical issues.

Mount: The phase converter transformer is mounted atop a skid plate base that allows this transformer to easily be moved from one location to another using a

forklift. The skid platform is designed for serious use and is ruggedly constructed to withstand demanding conditions and heavy duty industrial applications. The industrial grade skid platform can be modified to meet the needs of job-site requirements and can be pad mounted.

Applications: Situations that require a transformer to convert three-phase power to single-phase power.

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)