Larson Electronics LLC
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MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R

500 VA Isolation Transformer - 120/240V Primary - 6/12V AC Secondary - 50/60Hz - Fully Potted/Encapsulated

Product ID: 343974

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

Image: MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R

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-ISX-FP-1P-120.240V-500VA-6.12V-N3R Isolation Transformer

Transformer Type: Isolation Transformer
Transformer Configuration: Buck
Phase: Single Phase
Frequency: 50/60 Hz
Primary Voltage: 120/240 V AC (260V suitable)
kVA: 500 VA (0.50 kVA)
Secondary Voltage: 6/12 V AC
Amp: 21-23A
Winding Material: Aluminum
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
Temp Rating: 30°C
Enclosure Rating: NEMA 3R
Encapsulation: Silica Sand, Resin Compounds
Enclosure Material: Steel
Finish: ANSI 61 Grey Finish

Ratings

NRTL Listed for United States and Canada
Fully Potted/Encapsulated
NEMA 3R Indoor/Outdoor Enclosure
Meets or Exceeds NEMA ST-20 Standards
Isolation Transformer
CSA/cUL

Special Orders - Special Requirements

Contact us for special requirements

Mounting: Wall Mount via Mounting Tabs
Dimensions: 9.30"H x 5.06"W x 4.56"D
Weight: 15 lb

Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

The MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R Single Phase Isolation Transformer from Larson Electronics is powerful, reliable,and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R 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-ISX-FP-1P-120.240V-500VA-6.12V-N3R isolation transformer is a single phase unit with a 500 VA (0.50 kVA) rating and a primary voltage of 120/240 V AC (260V suitable) on the primary side. This transformer has a secondary voltage of 6/12 V AC 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's primary and secondary windings are separated, allowing operators to connect the primary and secondary components to form an autotransformer. When the primary and secondary windings are connected, the unit is no longer an isolated transformer and becomes a buck-boost transformer (autotransformer).

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-down transformer can be wall mounted. The MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R features a 130°C insulation with a 80°C temperature rise.

Construction: The aluminum winding in the MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R 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. Isolation transformers are designed to maximize the performance and life of electrical equipment. The MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R 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.

Benefits: The MT-ISX-FP-1P-120.240V-500VA-6.12V-N3R isolation transformer offers many benefits to the consumer. 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 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.

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 an isolation transformer and there are some limitations to consider. This transformer will only transform voltage, it will not convert phases and does not allow use of the neutral. 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: 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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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1** (https://www.larsonelectronics.com/images/product/HigResPic1/343974.JPG)
- **HigResPic2** (https://www.larsonelectronics.com/images/product/HigResPic2/343974.JPG)
- **HigResPic3** (https://www.larsonelectronics.com/images/product/HigResPic3/343974.JPG)
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