

MT-ISX-FP-1P-440V-500VA-48V-N3R

500 VA Isolation Transformer - 440V Primary - 48V AC Secondary - 60Hz - Fully

Potted/Encapsulated

Product ID: 310824



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-440V-500VA-48V-N3R Isolation Transformer

Transformer Type: Isolation Transformer

Transformer Configuration: -

Phase: Single Phase

Frequency: 60 Hz

Primary Voltage: 440 V AC

Capacity: 500 VA

Secondary Voltage: 48 V AC

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: 40°C

Enclosure Rating: NEMA 3R

Encapsulation: Silica Sand, Resin Compounds

Enclosure Material: Steel

Finish: ANSI 61 Grey / UL50

Mounting: Wall Mount via Mounting Tabs

Dimensions: TBD

Weight: TBD

Ratings

NRTL Listed to UL Standards for United States

NRTL Listed to CSA Standards for Canada

NEMA 3R Indoor/Outdoor Enclosure

Meets or Exceeds NEMA ST-20 Standards

Isolation Transformer

Fully Potted/Encapsulated

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The MT-ISX-FP-1P-440V-500VA-48V-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-440V-500VA-48V-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-440V-500VA-48V-N3R isolation transformer is a single phase unit with a 500 VA rating and a primary voltage of 440 V AC on the primary side. This transformer has a secondary voltage of 48 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 either floor or wall mounted. The MT-ISX-FP-1P-440V-500VA-48V-N3R features a 130°C insulation with a 80°C temperature rise.

Construction: The aluminum winding in the MT-ISX-FP-1P-440V-500VA-48V-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-440V-500VA-48V-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-440V-500VA-48V-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.



Frequently Asked Questions (FAQ)