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MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02

10 kVA Isolation Transformer - 208V Delta Primary - 208Y/120 Wye-N Secondary - NEMA 4X - Fully Potted/Encapsulated - 304 Stainless Steel Enclosure

Product ID: 280044

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.

MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 Encapsulated Isolation Transformer

Phase: Three Phase
Frequency: 50/60 Hz +/- 3%
kVA: 10
Primary Voltage: 208 V Delta
Primary Connection: Delta
Primary FCAN: 2 x 2.5%
Primary FCBN: 2 x 2.5%
Secondary Voltage: 208Y/120 V Wye-N
Secondary Connection: Wye-N
Winding Material: Aluminum
Efficiency: No Efficiency Specification
Insulation: 180°C
Temperature Rise: 115°C
Ambient Operating Temperature Range: -40°C to 50°C (-40°F to 122°F)
Ambient Storage Temperature Range: -40°C to 70°C (-40°F to 158°F)
Operating Altitude: 3000 Meters
Storage Altitude: 10,000 Meters
Impedance (Std): 1.7-2.5% (Typical)
Seismic Resistance: Earthquakes Up to Intensity VIII on the Modified Mercalli Scale
Sound Level: 60 dBA @ 1 Meter Under Zero to Full Load
Primary Termination: Wire Leads
Secondary Termination: Wire Leads
Enclosure Material: Double Enclosed - NEMA Type 4X Heavy Duty - Fully Potted /

Ratings

NRTL Listed for United States and Canada
ANN Cooling
IP66 Rated
Fully Potted / Encapsulated
Isolation Transformer w/ Electrostatic Shield
CE Rated

Encapsulated Inside NEMA Type 4X Heavy Duty - Ventilated
Finish: 304 Stainless Steel
Dimensions: 20.00"-H x 16.00"-W x 11.75"-D (*Please note that dimensions are approximate and subject to change*)
Weight: 300 lb (*Please note that weight is approximate and subject to change*)
Shipping: Pallet Freight
Shipping Dims: 48" x 48" x 36"
Shipping Weight: 350 lb
Mounting: Floor

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 from Larson Electronics is a 208 V Delta 3 Phase Energy Efficient Fully Potted Isolation Transformer that is powerful, reliable and designed with the environment in mind. Suitable for outdoor applications, the MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 provides increased reliablity, 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. This transformer meets the requirements for a salt fog test, but the test itself is a separate fee.

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

Transformer Features: With a transformer rating of 10 kVA, the MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 isolation transformer is a three phase unit with a primary voltage of 208 V Delta that can operate at +/- 5% of the rated input voltage. It also provides a secondary voltage of 208Y/120 V Wye-N. Featuring robust construction, this unit`s cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

This fully potted unit boasts a low cost of ownership and is highly energy efficient. It is potted in flame retardant, thermally conductive, high voltage insulating epoxy with silica filling. Lower heat emissions mean less cooling is needed as well. This transformer is fully potted with a 304 stainless steel encapsulated core. That component is then placed inside another 304 stainless steel ventilated enclosure making it a double enclosed unit. This NEMA 4X 304 stainless steel enclosure makes the unit suitable for outdoor applications and it can be floor mounted. The unit also features 180°C insulation with a 115°C temperature rise and is rated IP66.

Benefits: The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 encapsulated isolation transformer 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. A double-barrel compression lug (sized per NEC) is included with this unit for ground cables. The compression lug is mounted to existing core and coil frame bolts.

This fully potted 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 turn into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Integrated floor mounting brackets make installation fast and easy.

Safety: The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 is a fully potted isolation transformer which means that it provides operators with an increased level of protection against electric shock. An isolation transformer can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be connected. The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 achieves these safety features by seperating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.

When normally operating at 90% of its rated load, the permissible daily overloads above rating are:

- 160% - ½ hour
- 140% - 1 hour
- 125% - 2 hours
- 110% - 4 hours
- 105% - 8 hours

Humidity: For operation purposes, the MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 has an acceptable humidity range of 0 to 100%. This includes condensation, rain from 0 to 10 cm/hr (4in/hr), radial ice from 0 to 2.5 cm (1 inch), 15.0 cm (5.9 inches) of snow and direct exposure to sunlight. For storage purposes, this unit has an acceptable humidity range of 0 - 100% including condensation.
Storage Humidity: The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 will meet the requirements of the specification after being subjected to a store humidity range of 0-100%, including condensation, while in its factory shipping container.
Short Circuit Strength: The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 is capable of withstanding the following without injury: stresses caused by short circuits on the secondary side with rated voltage applied to the transformer as long as the short circuit duration does not exceed time limits specified by NEMA.
Seismic: The MT-ISX-SS-FP-3P-208D-10KVA-208Y.120-GD1-4509-02 is designed to withstand seismic forces produced by an earthquake of Intensity VIII on the modified Mercalli Scale.
Environmental Exposure: This fully potted transformer will continue to meet all specified ratings when exposed to salt fog and to sunlight or solar radiation of 1110 W/M2.
Applications: Power supplies for sensitive equipment such as computers, medical devices, or laboratory instruments.
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)


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Product ID: 280044

Harmonized System (HS) Code: 85043300

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**