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**MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12**

# 35 kva 3PH Isolation Transformer, 380V Delta Primary,220Y/127 Wye-N Secondary, N3R, Ventilated, 50/60 Hz

**Product ID: 280038**



**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-3P-380D-35KVA-220Y.127-GD1-4500-12 Isolation Transformer**

**Transformer Type: Isolation Transformer**
**Transformer Configuration: Dry Type**
**Phase: Three Phase**
**Frequency: 50/60 Hz ± 3%**
**Primary Voltage: 380V AC**
**Primary Configuration: 3, 3-wire plus ground, ±5%, Delta**
**Capacity: 35 kva**
**Secondary Voltage: 220Y/127 V Wye**
**Secondary Configuration: 3, 4-wire Wye**
**Knockouts: Sides**
**FCAN (Above) Taps: 2**
**FCBN (Below) Taps: 2**
**Tap %: 2.5**
**Impedance: 3 - 5% Typical**
**Efficiency @ 35% Load: ~98%**
**Winding Material: Aluminum**
**Primary Termination (Std): Terminal Lugs**
**Secondary Termination (Std): Terminal Lugs**
**Termination Access: Front Access Cover**
**Mounting: Floor**
**Cooling: Air/Dry**
**Insulation: 220°C**
**Temperature Rise: 150°C**
**Ambient Temperature Range: 0°C - 50°C**
**Sound Level: Not to Exceed 60 dBA @ 1 Meter Under Zero to Full Load Conditions**
**Enclosure Material: NEMA Type 3R Heavy Duty Ventilated - Steel**
**Finish: ANSI 61 Grey**

**Approvals/Ratings**

NRTL Listed for United States
NRTL Listed for Canada
NEMA 3R Indoor/Outdoor Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
DOE Efficiency Isolation Transformer
Distribution Type Transformer
Built to UL-50 Standards
Seismic Qualified for Earthquake Loads
RoHS
**CE Certified**

**Special Orders - Requirements**

**Dimensions:** 19.37"L x 24.39"W x 25.5"H
**Weight:** 325 lbs
**Shipping Method: Pallet Freight - LTL**
**Shipping Weight:** 390 lbs
**Shipping Dimensions:** 48"L x 40"W x 34"H

Contact us for special requirements
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**The MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 from Larson Electronics is a Three Phase 380 V to 220Y/127 Isolation Transformer that is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 provides increased reliability and protection against critical equipment failures. This 35 kva isolation transformer is designed for distribution loads and potential seismic activity. 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-3P-380D-35KVA-220Y.127-GD1-4500-12 Isolation transformer is a three phase transformer with an 35 kva capacity rating. This isolation transformer is configured with an input voltage of 380 V Delta 3-Phase AC on the primary side and an output voltage of 220Y/127 Wye-Neutral 3-Phase 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 boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The standard NEMA Type 3R enclosure makes the unit suitable for both indoor and outdoor applications and is designed to be floor mounted. Wall mount brackets or additional mounting accessories can be purchased separately. This 35 kva isolation transformer features 220°C insulation with a 150°C temperature rise.

**Benefits:** The MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 380V to 220Y/127 general purpose 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.

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

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

**Short Circuit Strength:** The MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 is designed to be capable of withstanding, without injury; stresses caused by short circuits on the secondary with rated voltage applied to the transformer provided the short circuit duration does not exceed time limits as specified by NEMA.

**Mounting:** The MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 can be floor mounted. Integrated floor brackets make installation fast and easy and the offset outward facing floor installation holes allow for easy power tool access. It includes compression-style lugs size appropriate for amperage where used on primary and secondary terminals. The chassis lug on this unit is connected to neutral and (Xo) and ports are provided for three external connections.

This 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.
**Safety:** The MT-ISX-3P-380D-35KVA-220Y.127-GD1-4500-12 is an isolation transformer which means that it provides operators with an increased level of protection against electric shock and injury. 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-3P-380D-35KVA-220Y.127-GD1-4500-12 achieves these safety features by separating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.
**Applications:** Converting 380V local grid power to 220Y/127 for on-site equipment. This 35 kva power transformer is ideal for sensitive equipment such as CNC equipment, computers, medical devices, ovens, 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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X1
H1
X2
H2
X3
H3
H4
X0

# Frequently Asked Questions (FAQ)