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MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1

150 kVA 3PH Isolation Transformer, 480V Delta Primary, 400Y/231V & 208Y/120V Wye-N Dual Secondary, (1) 225A Primary MCCB, (1) 225A 400V MCCB + (1) 400A 208Y/120V Panel, NEMA 1, Ventilated, 60 Hz

Product ID: 327262

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



Image: MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1

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.

MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 DOE Efficiency Isolation Transformer

Transformer Type: Isolation Transformer
Transformer Configuration: Dry Type
Phase: Three Phase
Frequency: 60 Hz
Primary Voltage: 480V AC
Primary Connection: Delta
Capacity: 150 KVA
Secondary Voltage: 400Y/231V & 208Y/120V AC
Secondary Connection: Wye (Dual Secondary, Neutral Available on 208Y/120V)
Knockouts: -
Protection: (1) 225-Amp 3P MCCB Primary Breaker, (1) 225-Amp 3P MCCB for 400V Secondary, (1) 400A 3P MLO/MCCB Distribution Panel for 208Y/120V Secondary
FCAN (Above) Taps: 2
FCAN (Below) Taps: 4
Tap %: 2.5%
Impedance: 2.5-6.5% Typical
Efficiency @ 35% Load: ~98%
Winding Material: Aluminum

Approvals/Ratings

NRTL Listed for United States
NRTL Listed for Canada
NEMA 1 Indoor Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
Isolation Transformer
Distribution Type Transformer
Built to UL-50 Standards
Seismic Qualified for Earthquake Loads
RoHS
CE Certified

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
Sound Level: Meets NEMA ST-20 Standards
Enclosure Material: NEMA Type 1 Heavy Duty Ventilated - Steel
Finish: ANSI 61 Grey
Dimensions: 29.87"-L x 52.9"-W x 41.52"-H
Weight: 970 lb
Shipping Method: Pallet Freight - LTL
Shipping Weight: 1080 lb
Shipping Dimensions: 48"-L x 60"-W x 50"-H

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 Three Phase 480V to 400Y/231V & 208Y/120V 150 KVA Isolation Transformer with Integrated Distribution from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for indoor applications, the MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 provides increased reliability and protection against critical equipment failures while supplying both European-standard 400V Wye and North American-standard 208Y/120V Wye power simultaneously. This 150 KVA isolation transformer is built for distribution loads, mixed-voltage facilities, and environments requiring stable, isolated power for sensitive equipment. The lower operating costs, reduced heat emissions, and lower overall cost of ownership make this transformer ideal for a wide range of commercial and industrial applications. The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 features integrated primary and secondary protection, including a 225-Amp primary MCCB, a 225-Amp 400V secondary MCCB, and a 400-Amp 208Y/120V distribution panel.

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

Transformer Features: The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 isolation transformer is a three-phase transformer with a 150 KVA capacity rating. This transformer is configured with an input voltage of 480V Delta 3-Phase AC on the primary side and dual output voltages of 400Y/231V Wye and 208Y/120V Wye on the secondary side. Both secondary windings are fully isolated and may be operated simultaneously, with each winding capable of supporting the full 150 KVA load if required. 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 reduce the cooling requirements of the installation site. The standard NEMA Type 1 ventilated enclosure makes the unit suitable for indoor floor-mounted applications. Optional NEMA 3R enclosures are available upon request. This 150 KVA isolation transformer features 220°C insulation with a 150°C temperature rise.

Benefits: The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 480V to 400Y/231V & 208Y/120V isolation transformer offers numerous benefits. Precision-cut aluminum winding material helps improve performance and reduces material cost. The close tolerances used during manufacturing eliminate burrs that hinder performance. Each core is

specially coated to prevent moisture ingress and is electrically balanced to minimize axial forces during short-circuit events.

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. Integrated floor and wall mounting brackets make installation fast and easy and the offset outward facing floor installation holes allow for easy power tool access.

The MT-ISX series of isolation transformers from Larson Electronics meet or exceed efficiency standards for United States and Canada. This results is overall lower cost of ownership throughout the life of the transformer.

Protection: The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 is equipped with three integrated protection devices:

- One 225-Amp, 3-Pole MCCB on the primary 480V input
- One 225-Amp, 3-Pole MCCB on the 400V secondary output
- One 400-Amp, 3-Pole distribution panel for the 208Y/120V secondary output

Per NEC requirements, overcurrent protection devices must be sized at 125% of the load they protect. The primary 150 KVA transformer draws approximately 180 amps at 480V. At 125%, this requires a 225-Amp protective device. Matching protection is provided on the 400V secondary, with a 400-Amp panel provided for the lower-voltage 208Y/120V winding. All breakers are housed within separate steel distribution compartments integrated into the assembly.

Safety: The MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 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 MPD-MT-ISX-3P-480D-150KVA-400Y.231.208Y.120-N1-EB-M1 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 480V local grid power to 400Y & 208Y for on-site equipment. This 150 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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Frequently Asked Questions (FAQ)

There are no Faqs

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Warranty: 6 Months.

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/327262.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/327262.JPG)
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- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/327262.JPG)
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