Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

## MT-ISX-3P-480D-34KVA-480D-N3R

# 34 kVA 3PH Isolation Transformer, 480V Delta Primary, 480V Delta Secondary, N3R, Ventilated, 60 Hz

**Product ID: 270846**

**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-480D-34KVA-480D-N3R 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:** 34 KVA
**Secondary Voltage:** 480V AC
**Secondary Connection:** Delta
**Knockouts:** Sides
**FCAN (Above) Taps:** 2
**FCAN (Above) Taps:** 4
**Tap %:** 2.5
**Impedance:** 2.5-6.5% 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
**Sound Level:** Meets NEMA ST-20 Standards
**Enclosure Material:** NEMA Type 3R Heavy Duty Ventilated - Steel
**Finish:** ANSI 61 Grey
**Dimensions:** 19.37"L x 24.39"W x 25.5"H

**Approvals/Ratings**

NRTL listed for United States
NRTL listed for Canada
NEMA 3R Indoor/Outdoor 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

**Special Orders - Special Requirements**

Contact us for special requirements

**Weight:** 400 lbs
**Shipping Method:** Pallet Freight - LTL
**Shipping Weight:** 465 lbs
**Shipping Dimensions:** 48"L x 40"W x 34"H

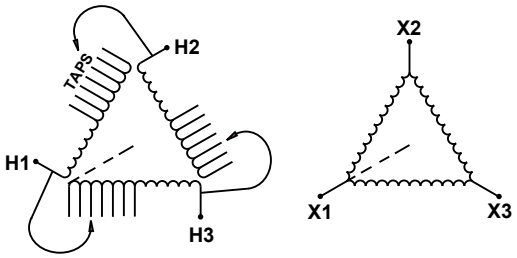
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-498-3364
**E-mail:** sales@larsonelectronics.com

**The MT-ISX-3P-480D-34KVA-480D-N3R Three Phase 480V to 480 34 KVA 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-3P-480D-34KVA-480D-N3R provides increased reliability and protection against critical equipment failures. This 34 KVA isolation 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-480D-34KVA-480D-N3R Isolation transformer is a three phase transformer with a 34 KVA capacity rating. This isolation transformer is configured with an input voltage of 480V Delta 3-Phase AC on the primary side and an output voltage of 480 Delta 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 34 KVA distribution transformer features 220°C insulation with a 150°C temperature rise.
**Benefits:** The MT-ISX-3P-480D-34KVA-480D-N3R 480V to 480 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.
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.
**Safety:** The MT-ISX-3P-480D-34KVA-480D-N3R 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-480D-34KVA-480D-N3R 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 480 for on-site equipment. This 34 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.

# Wiring Diagram

***WARNING:*** *DO NOT SERVICE WHILE ENERGIZED!*

## MT-ISX-3P-480D-34KVA-480D-N3R




| PRIMARY VOLTS | |
|---|---|
| CONNECT LINES TO H1, H2, H3 | |
| TAP | VOLTAGE |
| 1 | 504 |
| 2 | 492 |
| 3 | 480 |
| 4 | 468 |
| 5 | 456 |
| 6 | 444 |
| 7 | 432 |
| **SECONDARY VOLTS** | |
| CONNECT LINES | VOLTAGE |
| X1, X2, X3 | 480 |

Dry Type Transformer Class AA
LARSON ELECTRONICS
LARSONELECTRONICS.COM
1-800-369-6671
sales@larsonelectronics.com
A14
WARNING
LARSON ELECTRONICS

X1
H3
X2
X4
H1
X3
H2
SO: 233332 – 001
233332

LARSON
ELECTRONICS
A14
WARNING
LARSON
ELECTRONICS

**Material Safety Data Sheet**

To Whom It May Concern,

Larson Electronics LLC MT-ATX, MT-BBT, MT-DIX, MT-DOE10, MT-DOE16, MT-ISX, and MT-PMD industrial line of transformers are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS).

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith
Larson Electronics, LLC.

# Frequently Asked Questions (FAQ)