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## MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R

### 0.5 kVA Isolation Transformer - 240/480V AC Primary - 120/240V Secondary - NEMA 3R - 1 Phase

**Product ID: 278413**



Image: MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R

**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-DOE16-1P-240.480V-0.5KVA-120.240V-N3R Isolation Transformer**
**Phase:** Single Phase
**Frequency:** 60 Hz
**kVA:** 0.5 (500 VA)
**Primary Voltage:** 240/480 V
**Taps:** TBD
**Secondary Voltage:** 120/240 V
**Winding Material:** Copper
**Insulation:** 130°C
**Temperature Rise:** 95°C
**Impedance (Std):** -
**Seismic:** Yes
**Sound Level:** Meets NEMA ST-20 Standards
**Primary Termination:** -
**Secondary Termination:** -
**Enclosure Material:** NEMA Type 3R Heavy Duty Ventilated
**Finish:** ANSI 61 Grey Finish
**Dimensions:** 4.38"L x 4.30"W x 10.13"H
**Weight:** 19 lb
**Mounting:** Wall Mount

**Ratings**
NRTL Listed for United States and Canada
ANN Cooling
IP14 Rated
Isolation Transformer

**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-DOE16-1P-240.480V-0.5KVA-120.240V-N3R 240/480 V 1 Phase Energy Efficient Isolation Transformer from Larson Electronics is powerful, reliable and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R provides increased reliability and protection**

**against critical equipment failures. 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:** With a transformer rating of 0.5 kVA (500 VA), the MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R isolation transformer is a single phase unit with a primary voltage of 240/480 V. It also provides a secondary voltage of 120/240 V. 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 it can be wall mounted. The unit also features 130°C insulation with a 95°C temperature rise and is rated IP14.

**Benefits:** The MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R isolation transformer offers many benefits to the consumer. Precision cut copper 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 isolation 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 wall mounting brackets make installation fast and easy and the offset outward facing installation holes allow for easy power tool access.

**Safety:** The MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R is an 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-DOE16-1P-240.480V-0.5KVA-120.240V-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.

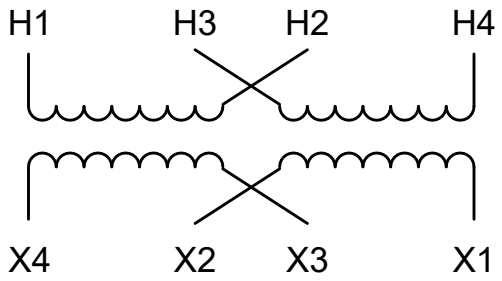
**Applications:** General purposes.

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!*

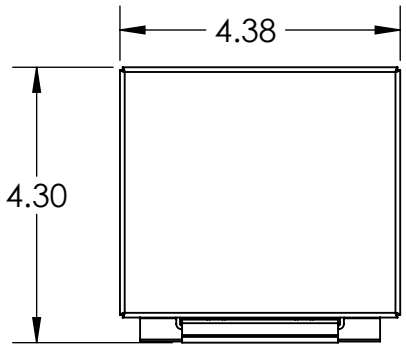
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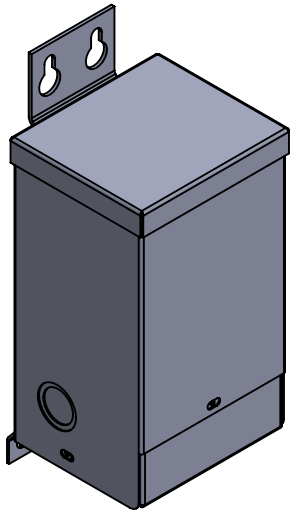


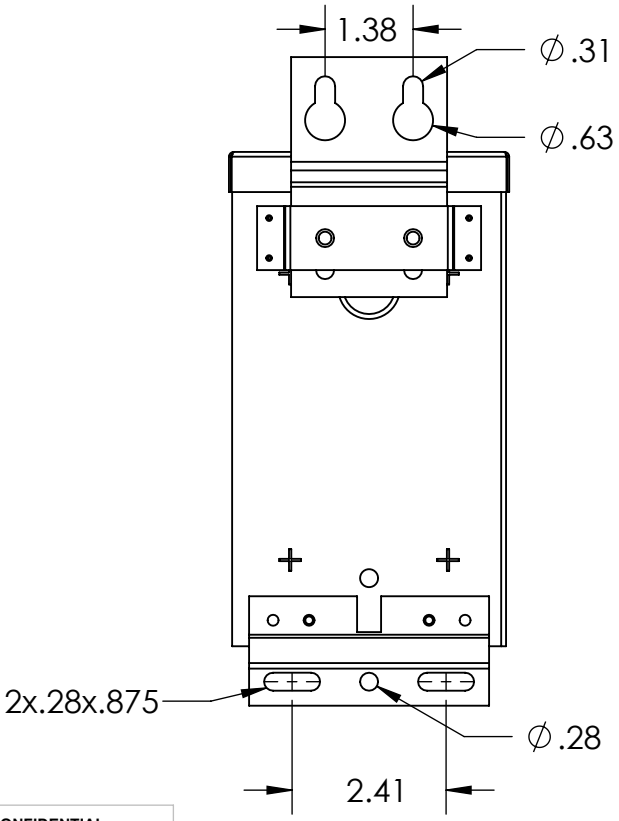

| Primary Volts | Connect Lines To | Inter-connect |
|---|---|---|
| 480 | H1-H4 | H2-H3 |
| 240 | H1-H4 | H1-H3, H2-H4 |

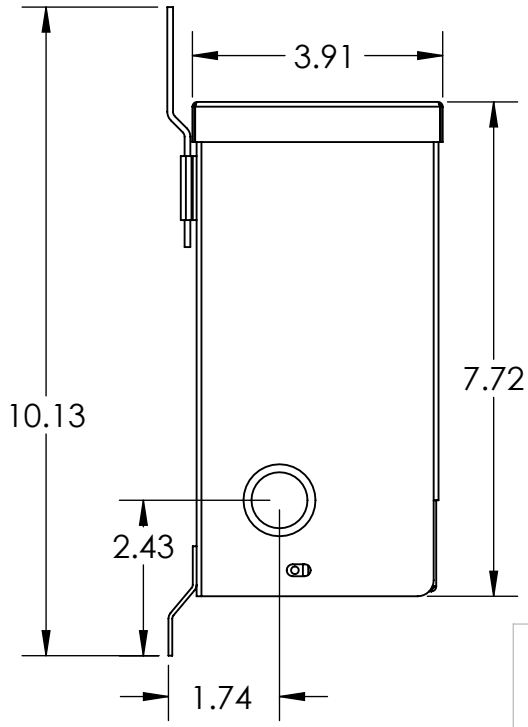
| Secondary Volts | Connect Lines To | Inter-connect |
|---|---|---|
| 240 | X1-X4 | X2-X3 |
| 120/240 | X1-X2-X4 | X2-X3 |
| 120 | X1-X4 | X1-X3, X2-X4 |


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LARSON ELECTRONICS®

**PART NUMBER:**

**MT-DOE16-1P-240.480V-0.5KVA-120.240V-N3R**

| SIZE | REV |
|---|---|
| A | |

| | | | | |
|---|---|---|---|---|
| DIMENSIONS ARE IN INCHES | | | SCALE: NTS | |
| DO NOT SCALE DRAWING | DATE | 6/5/2024 | | SHEET 1 OF 1 |

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LARSON ELECTRONICS LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LARSON ELECTRONICS LLC IS PROHIBITED.

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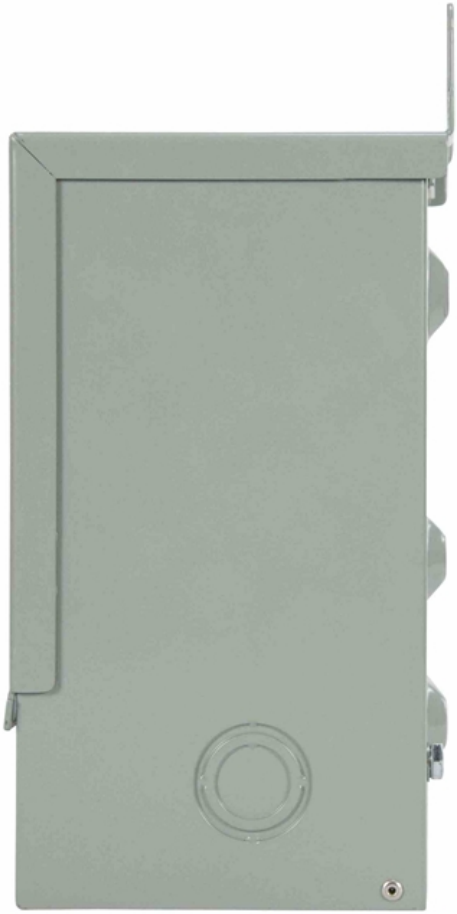
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# Material Safety Data Sheet

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.



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# Frequently Asked Questions (FAQ)

There are no Faqs