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## MT-DOE16-1P-277V-10KVA-120.240V-N3R

### 10 kVA Isolation Transformer - 277V Primary - 120/240V Secondary - NEMA 3R - Single Phase

**Product ID: 278065**

**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-277V-10KVA-120.240V-N3R Isolation Transformer**

**Phase:** Single Phase
**Frequency:** 60 Hz
**kVA:** 10
**Primary Voltage:** 277 V
**Taps:** 2 x 2.5% FCAN; 4 x 2.5% FCBN
**Secondary Voltage:** 120/240 V
**Winding Material:** Aluminum
**Insulation:** 220°C
**Temperature Rise:** 150°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:** 27.00"H x 20.00"W x 22.00"D
**Weight:** 132 lb
**Mounting:** Floor 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-277V-10KVA-120.240V-N3R 277 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-277V-10KVA-120.240V-N3R provides increased reliablity 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 10 kVA, the MT-DOE16-1P-277V-10KVA-120.240V-N3R isolation transformer is a single phase unit with a primary voltage of 277 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 floor mounted. The unit also features 220°C insulation with a 150°C temperature rise and is rated IP14.

**Benefits:** The MT-DOE16-1P-277V-10KVA-120.240V-N3R 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.

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

**Safety:** The MT-DOE16-1P-277V-10KVA-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-277V-10KVA-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.

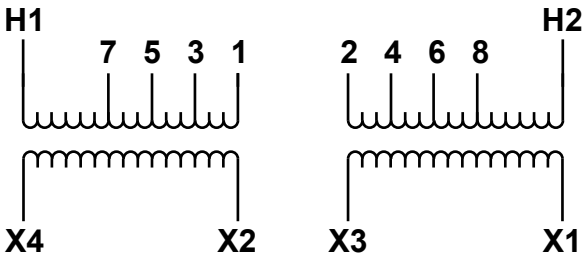
**Applications:** General purposes.

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!*

## MT-DOE16-1P-277V-10KVA-120.240V-N3R




| Primary Volts | Connect Lines To | Connect Left to Right Taps |
|---|---|---|
| 291 | H1-H2 | 1-2 |
| 284 | H1-H2 | 2-3 |
| 277 | H1-H2 | 3-4 |
| 270 | H1-H2 | 4-5 |
| 263 | H1-H2 | 5-6 |
| 256 | H1-H2 | 6-7 |
| 249 | H1-H2 | 7-8 |

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



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

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# Frequently Asked Questions (FAQ)