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MT-MCF-DOE16-3P-480D-45KVA-400Y.230-N3R

45 kVA Isolation Transformer - 480V Delta Primary - 400Y/230 Wye-N Secondary - Cart Mount - NEMA 3R

Product ID: 224404

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



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.

1**MT-MCF-DOE16-3P-480D-45KVA-400Y.230-N3R Cart Mounted Isolation Transformer**

1**Phase:**1 Three Phase
1**Frequency:**1 60 Hz
1**kVA:**1 45
1**Primary Voltage:**1 480 V Delta
1**Primary Connection:**1 Delta
1**Primary BIL:**1 10 kV
1**Primary FCAN:**1 0 x 0%
1**Primary FCBN:**1 2 x 5%
1**Secondary Voltage:**1 400Y/230 V Wye-N
1**Secondary Connection:**1 Wye
1**Secondary BIL:**1 10 kV
14 1**Winding Material:**1 Aluminum
14 1**Efficiency:**1 DOE 2016 / NRCAN 2019 (Also Meets ON Reg. 404/12)
14 1**Insulation:**1 220°C
14 1**Temperature Rise:**1 150°C
14 1**Secondary Phase Angle:**1 30°C
14 1**Impedance (Std):**1 2.5% - 6.5%
14 1**Seismic Zone:**1 Zone 4
14 1**Sound Level:**1 Meets NEMA ST-20 Standards
14 1**Primary Termination:**1 Mechanical Lugs

1**Ratings**

1Listed for United States and Canada
1ANN Cooling
1IP24 Rated
1Isolation Transformer
1Cart Mounted

141**Secondary Termination:**1 Mechanical Lugs

141**Enclosure Material:**1 NEMA Type 3R Heavy Duty Ventilated

141**Finish:**1 ANSI 61 Grey, UL50 Finish

141**Transformer Dimensions:**1 21.50"H x 19.38"W x 20.20"D

141**Cart Dimensions:**1 50.00"L x 50.00"W x 12.50"H

141**Weight:**1 190 lb

141**Mounting:**1 Cart Mounted

1**Special Orders - Special Requirements**

1Contact us for special requirements

1Toll Free: 11-800-369-6671

1**Intl:**1 1-903-270-1187

1**E-mail:** 1sales@larsonelectronics.com

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The MT-MCF-DOE16-3P-480D-45KVA-400Y.230-N3R 480 V Delta 3 Phase Energy Efficient Cart Mounted Isolation Transformer from Larson Electronics is powerful, reliable and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-MCF-DOE16-3P-480D-45KVA-400Y.230-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 45 kVA, the MT-MCF-DOE16-3P-480D-45KVA-400Y.230-N3R isolation transformer is a three phase unit with a primary voltage of 480 V Delta. It also provides a secondary voltage of 400Y/230 V Wye-N. 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 cart mounted. The unit also features 220°C insulation with a 150°C temperature rise and is rated IP24.
Benefits: The MT-MCF-DOE16-3P-480D-45KVA-400Y.230-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 and wall mounting brackets make installation fast and easy and the offset outward facing floor installation holes allow for easy power tool access.
Safety: The MT-MCF-DOE16-3P-480D-45KVA-400Y.230-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-MCF-DOE16-3P-480D-45KVA-400Y.230-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.
Mounting: The MT-MCF-DOE16-3P-480D-45KVA-400Y.230-N3R is mounted on a cart for easy movement, transportation, and positioning. The cart measures 50"L x 50"W x 12.5"H and features four caster wheels for stability and control. The cart is also equipped with a pair of forklift skid pockets for even further versatility.
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.

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Frequently Asked Questions (FAQ)

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Product ID: 224404

Harmonized System (HS) Code: 85043300

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**