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MT-ATX-ZZ-480D-5KVA-480Y.277-N3R

5 kVA Zig Zag Autotransformer - 480V Delta Primary - 480Y/277V Wye-N Secondary - NEMA 3R - 60Hz

Product ID: 279394



Image: MT-ATX-ZZ-480D-5KVA-480Y.277-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-ATX-ZZ-480D-5KVA-480Y.277-N3R Zig Zag Autotransformer

Transformer Type: Zig Zag Autotransformer
Phase: Three Phase
Frequency: 60 Hz
kVA: 5
Primary Voltage: 480 V Delta
Taps: -
Secondary Voltage: 480Y/277 V Wye-N
Max Continuous Amperage Per Leg: 6.25 Amps
Winding Material: Aluminum
Insulation: 180°C
Temperature Rise: 115°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: 10.50"H x 16.50"W x 5.13"D
Weight: 72 lb
Mounting: Wall Mount

Ratings

NRTL Listed for United States and Canada
ANN Cooling
IP14 Rated
Zig Zag Autotransformer
Provides a Neutral from Delta Configuration

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
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The MT-ATX-ZZ-480D-5KVA-480Y.277-N3R Three Phase Zig Zag Autotransformer from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-ATX-ZZ-480D-5KVA-480Y.277-N3R provides increased reliability, higher efficiency, protection against critical equipment failures and an extra level of protection by isolating the power source from the connected device. The lower operating costs, lower heat emissions and lower cost of ownership make this transformer ideal for a wide range of applications and businesses. The MT-ATX-ZZ-480D-5KVA-480Y.277-N3R is a zig zag autotransformer which means that it is designed to provide a neutral from a delta configuration.

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

Transformer Features: With a transformer rating of 10.8 kVA, the MT-ATX-ZZ-480D-5KVA-480Y.277-N3R zig zag autotransformer is a three phase unit with a primary voltage of 480 V Delta. It also provides a secondary voltage of 480Y/277 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 it can be wall mounted. The unit also features 180°C insulation with a 115°C temperature rise and is rated IP14.

Benefits: The MT-ATX-ZZ-480D-5KVA-480Y.277-N3R zig zag autotransformer 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 zig zag autotransformer 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 mounting brackets make installation fast and easy and the offset outward facing installation holes allow for easy power tool access.

Safety: The MT-ATX-ZZ-480D-5KVA-480Y.277-N3R is a zig zag autotransformer which means that it has the ability to adjust the supply voltage to match specific load requirements when load isolation from the supply line is not required. Autotransformers are typically used in distribution systems that require small voltage corrections during operation.

Please note that this zig zag autotransformer does NOT provide any form of isolation. It is designed to provide a neutral from a delta configuration.

Applications: Situations that require a transformer that has a neutral from a delta configuration.

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

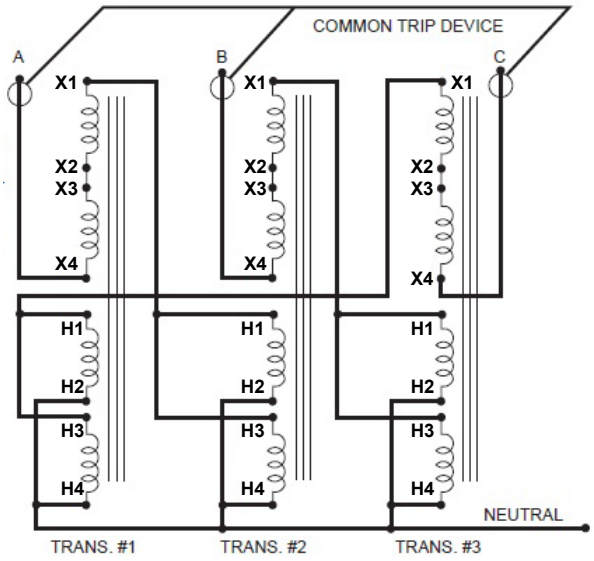
distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

Wiring Diagram

WARNING: *DO NOT SERVICE WHILE ENERGIZED!*

MT-ATX-ZZ-480D-5KVA-480Y.277-N3R

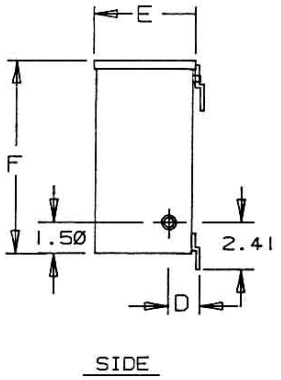
Primary Voltage: 480V Delta
Secondary Voltage: 480Y/277V Wye-N



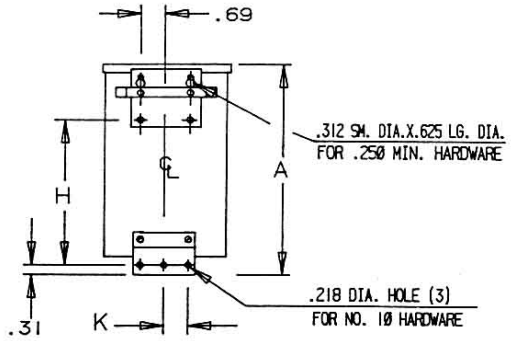
Connection Guide

1. Interconnect X2 to X3 on each transformer
2. Connect X1 from Trans. #1 to H1 and H3 on Trans. #2
3. Connect X1 from Trans. #2 to H1 and H3 on Trans. #3
4. Connect X1 from Trans. #3 to H1 and H3 on Trans. #1
5. Bridge H2 and H4 between all three transformers
6. Connect Neutral to H2
7. Connect High Voltage Phase A to X4 on Trans. #1
8. Connect High Voltage Phase B to X4 on Trans. #2
9. Connect High Voltage Phase C to X4 on Trans. #3
10. Connect Phase A X4-Neutral Output 277
11. Connect Phase B X4-Neutral Output 277
12. Connect Phase C X4-Neutral Output 277

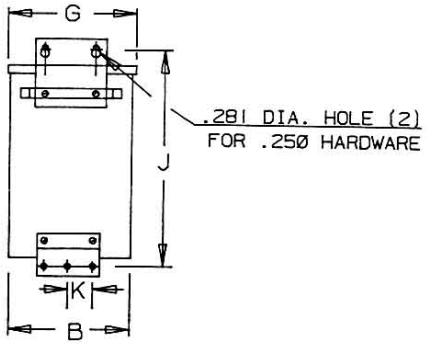
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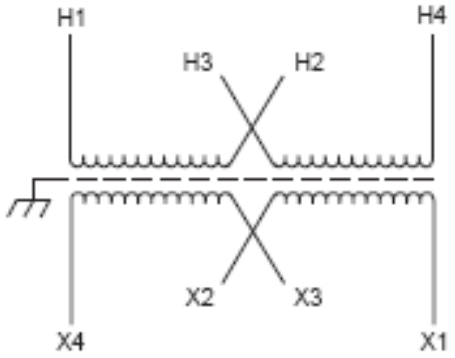
SIDE



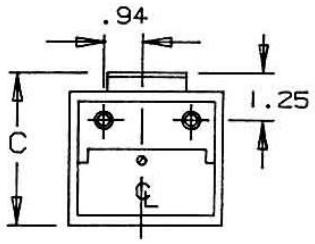
BACK (1)



BACK (2)



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
480	H1-H4	H2 to H3	
240	H1-H3 & H2-H4		
Secondary Volts			
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4



BOTTOM

Winding Rise	115°C
Insulation	180°C
Sound Level	45 dB

KVA	CATALOG NUMBER	VOLTAGE		Enclosure Rating	WEIGHT	PHASE	FREQ.
		HIGH	LOW				
1.0	MT-ATX-ZZ-480D-5KVA-480Y.277-N3R	240x480	120/240	NEMA 3R	24 Lbs	1ϕ	60 Hz

LARSON ELECTRONICS

A	B	C	D	E	F	G	H	J	K
10.02	5.40	5.13	1.67	4.92	9.18	5.50	6.53	10.50	1.50

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.

TITLE: MT-ATX-ZZ-480D-5KVA-480Y.277-N3R

		NAME
DIMENSIONS ARE IN INCHES	DRAWN	
MATERIAL	CHECKED	JEREMY BLANKENSHIP
DO NOT SCALE DRAWING		

SIZE	DWG. NO.	REV
A		

SHEET 1 OF 1

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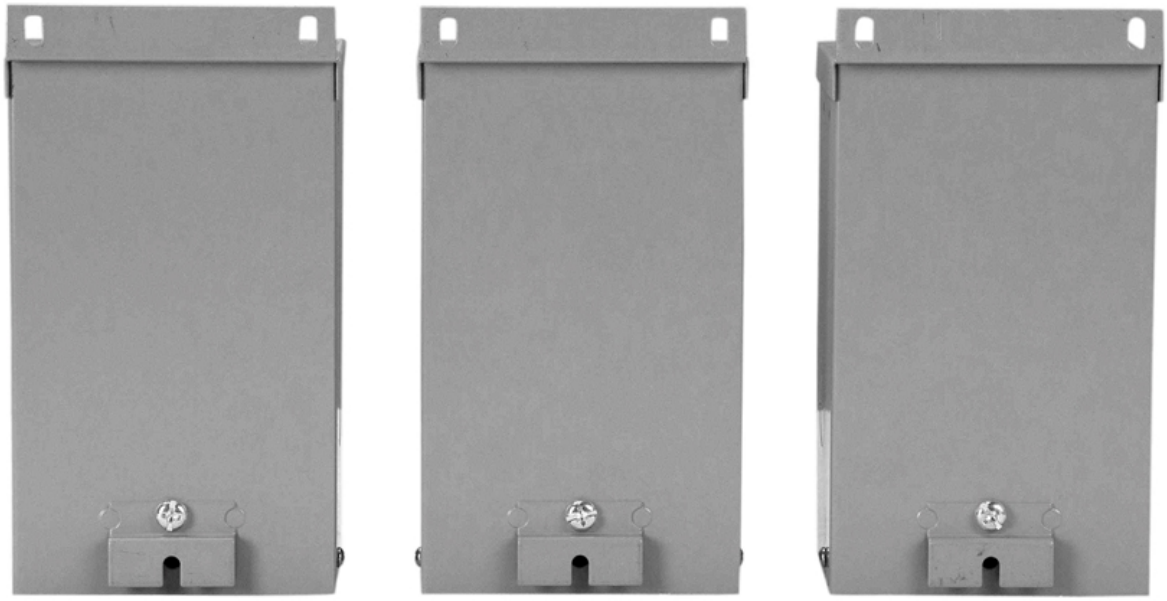
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Material Safety Data Sheet

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