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MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R

50 kVA Isolation Transformer - 13800V x 13200V x 12470V Delta Primary Voltage - 480Y/277 Secondary Voltage - NEMA 3R

Product ID: 304178



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-13800D.13200D.12470D-50KVA-480Y.277-N3R Pad Mount Transformer

Phase: Three Phase
Frequency: 60Hz
kVA: 50
Primary Voltage: 13800V x 13200V x 12470V AC
Primary Connection: Delta
Primary BIL: 30kV
Primary FCAN: 2 x 2.5%
Primary FCBN: 2 x 2.5%
Secondary Voltage: 480Y/277 Wye-N
Secondary Connection: Wye-N
Secondary BIL: 10kV
Winding Material: Aluminum
Efficiency: DOE 2016 & NRCAN 2018 (Also Meets ON Green Energy Act 2018)
Insulation: 220°C
Temperature Rise: 115°C
Ambient Temperature Rating: 40°C
Secondary Phase Angle: 30°C
Impedance (Std): 2.5% - 6.5%
Sound Level: 50dBA (ST-20)
Primary Termination: Mechanical Lugs
Secondary Termination: Mechanical Lugs
Enclosure Material: NEMA Type 3R Heavy Duty Ventilated
Finish: ANSI 61 Grey, UL50 Finish
Dimensions: 44.5"H x 31.5"W x 29.5"D
Weight: 880 lbs
Mounting: Floor or Wall Mount

Ratings

Listed for United States and Canada
ANN Cooling
IP24 Rated
Class H

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
E-mail: sales@larsonelectronics.com

The MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R 13800V/13200V/12470V 3 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-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-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 50 kVA, the MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R transformer is a three phase unit with a primary voltage of 13800V, 13200V, 12470V Delta. It also provides a secondary voltage of 480Y/277 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.

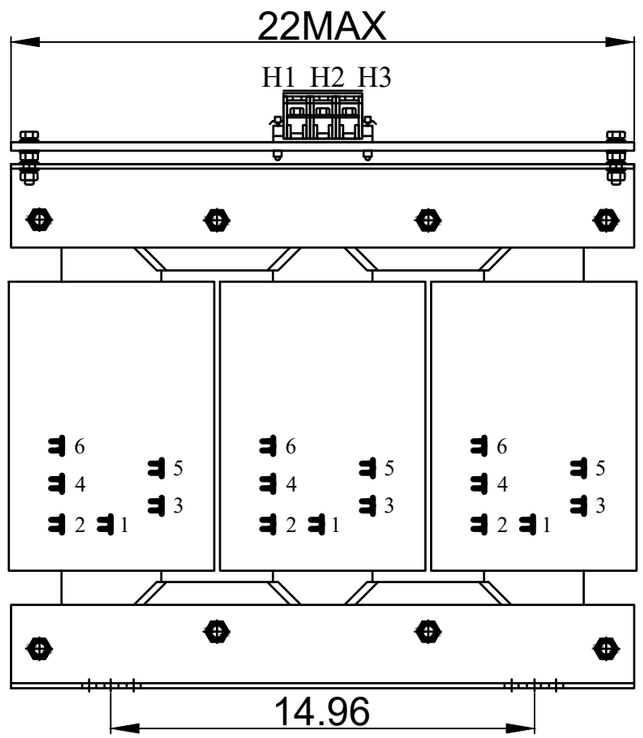
This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The Standard NEMA Type 3R enclosure makes the unit suitable for both indoor and outdoor applications and it can be floor mounted. The unit also features Class H 220°C insulation with a 115°C temperature rise and is rated IP24.

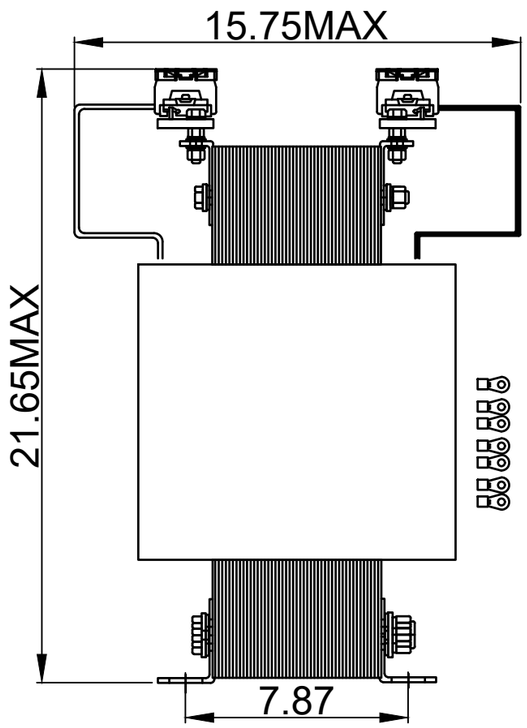
Benefits: The MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R general purpose transformer offers many benefits to the consumer. Precision cut aluminum transformer winding material help to improve performance. The close tolerances used during manufacturing also eliminates burrs which hinder performance. 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.

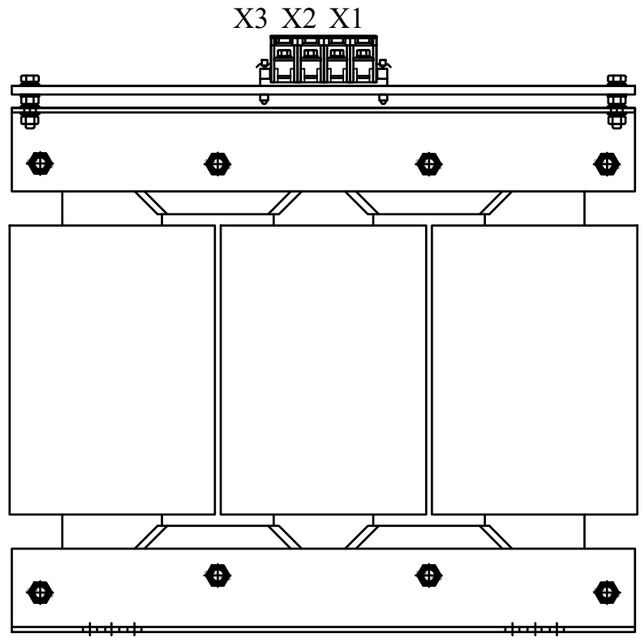
Safety: The MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R is an isolation transformer which means that it provides operators with an increased level of protection against electric shock. An isolation transformer can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be connected. The MT-ISX-3P-13800D.13200D.12470D-50KVA-480Y.277-N3R achieves these safety features by seperating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.

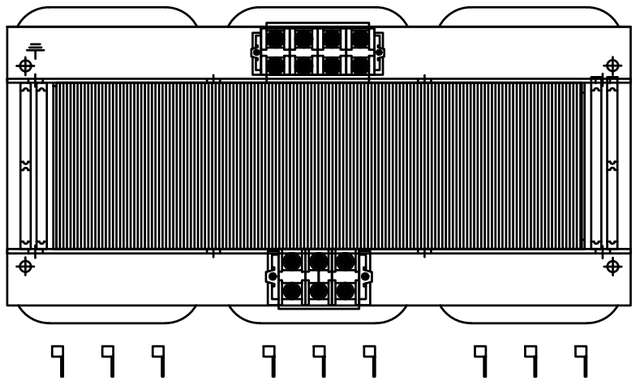
Applications: Power supplies for sensitive equipment such as computers, medical devices, or laboratory instruments.

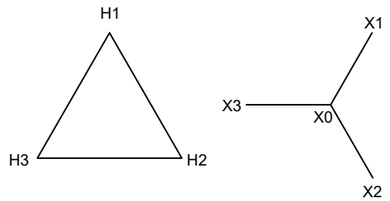
Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.



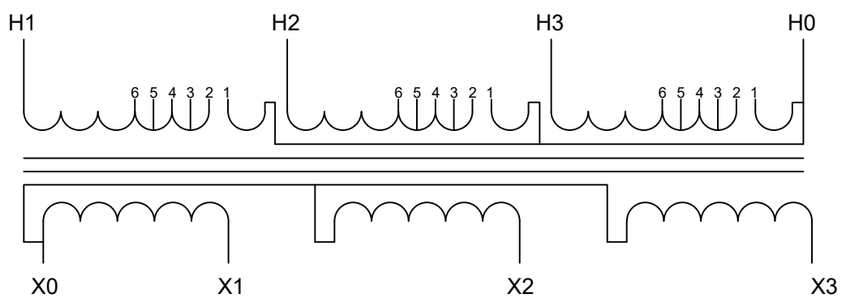








Phase	3	Frequency	60Hz
Capacity	50KVA		
Input	13800V*13200V*12470V+2*2.5% &-2*2.5%		
Output	480Y/277V		
Vector	D/Y		
Weight	880Lbs		



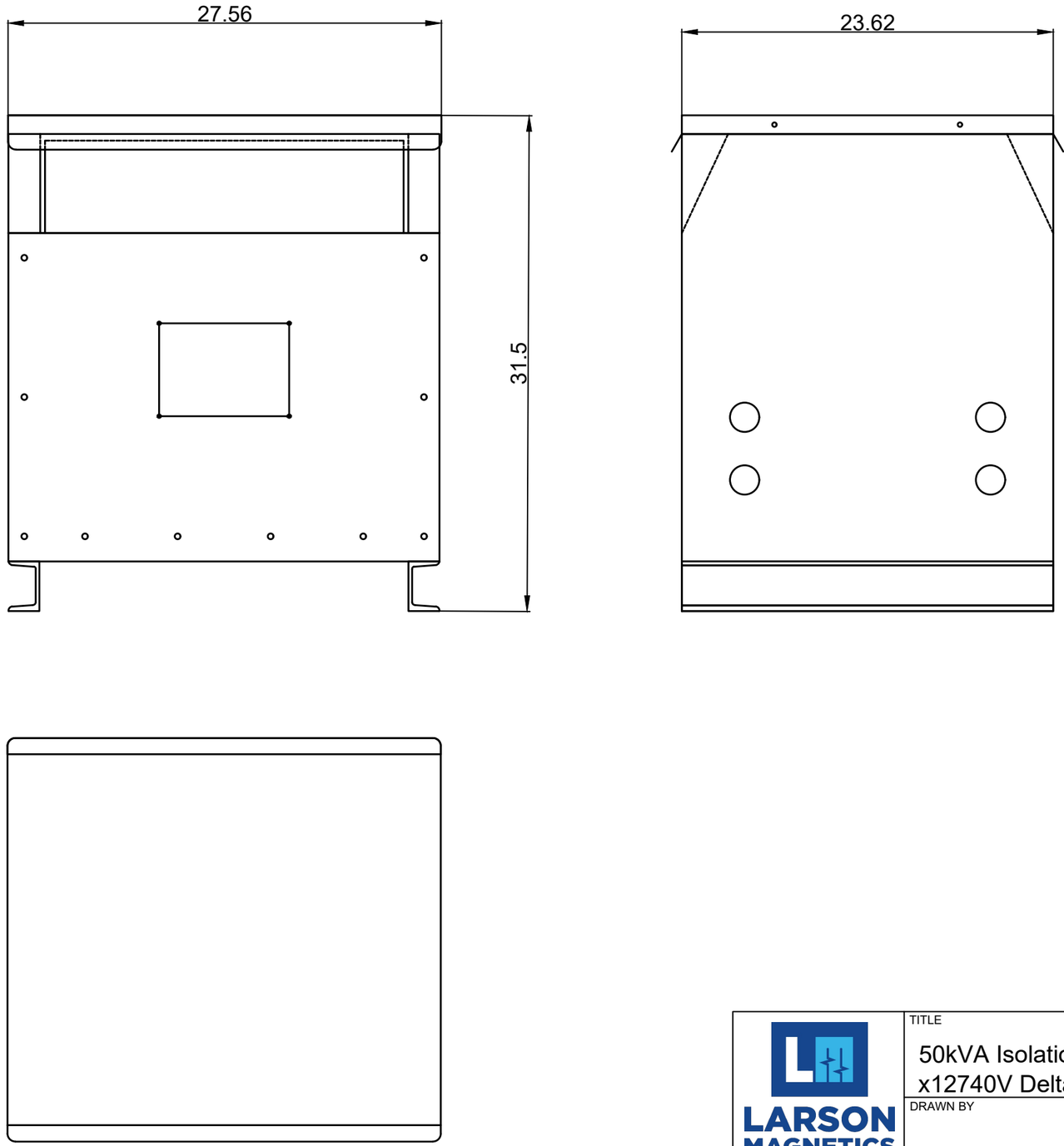
1 - 2 H1 - H2 - H3 13800V x 13200V x 12470V+5%
1 - 3 H1 - H2 - H3 13800V x 13200V x 12470V+2.5%
1 - 4 H1 - H2 - H3 13800V x 13200V x 12470VV
1 - 5 H1 - H2 - H3 13800V x 13200V x 12470V+2.5%
1 - 6 H1 - H2 - H3 13800V x 13200V x 12470V+5%

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TITLE: 50kVA Isolation Transformer, 13800Vx13200 x12740V Delta Primary, 480Y/277 Secondary

DRAWN BY	DATE	REV
	5/7/2024	A
CHECKED BY	SHEET #	DRAWING #
	1 OF 3	101



LARSON MAGNETICS	TITLE: 50kVA Isolation Transformer, 13800Vx13200 x12740V Delta Primary, 480Y/277 Secondary		
	DRAWN BY	DATE: 5/7/2024	REV: A
9419 E US HWY 175, KEMP, TX 75143	CHECKED BY	SHEET #: 2 OF 3	DRAWING #: 102

THREE PHASE DRY TYPE TRANSFORMER

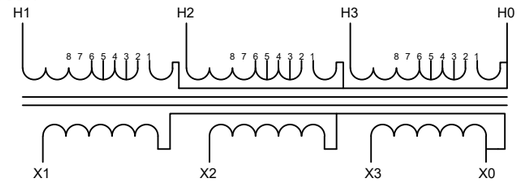
210 | 170 | 150 | 230

PRIMARY		
TAP POSITION	VOLTAGE (V)	CURRENT (A)
1	COM.	
2	14490	
3	14145	
4	13800	2.1
5	13455	
6	13110	

SECONDARY	
VOLTAGE (V)	CURRENT (A)
480Y/277V	60.1

RATED CAPACITY	50 KVA	STANDARD	DOE2016
Input	13800V x 13200V, x 12470V AC	PRODUCT CODE	
Output	480/277V	SERIAL NO.	
IMPEDANCE	2.5 ~ 6.5 %		
USE CONDITION	INDOOR & OUTDOOR	TEMPERATURE RISE	115 °C
PHASE	3 PHASE	INSULATION CLASS	220 °C
VECTOR GROUP	Δ/Y		
RATED FREQUENCY	60 Hz	TOTAL WEIGHT	880 lbs
COOLING TYPE	ANN	MANUFACTURE DATE	2024.05

WIRE CONNECTION



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DRAWN BY	DATE 5/7/2024	REV A
CHECKED BY	SHEET # 3 OF 3	DRAWING # 103


DANGER PELIGRO




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Frequently Asked Questions (FAQ)