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MT-PDT-VPM-R15-1P-GMR-250KVA-SZ-A6-BZ-CZ-2A-ZZ-Z-N3R-M1

Austin Energy 1510-31-09, 250 KVA Vacuum Pressure Impregnated Transformer, 12470GrdY/7200 Primary, 240/120V Secondary, ANN, W/O Fans, VPI, CU, Green, City of Austin Spec

Product ID: 305554



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-PML-VPM-R15-1P-GMR-250KVA-SZ-A6-BZ-CZ-2A-ZZ-Z-N3R-M1 Pad Mount Transformer

Transformer Type: Vacuum Pressure Impregnated (VPI) Transformer
Transformer Configuration: Dry Type, Ventilated
Polarity: Additive
Phase: Single Phase (Connects to 3-Phase electrical grid)
Capacity: 250 KVA
Vector Group: II6
Primary Voltage: 12470GrdY/7200
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 KV
Secondary Voltage: 240V/120 (L-N-L)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Dual Winding Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Cooling Class: ANN; Self-Cooled
Forced Air (Fans): None
Tap Changer: 5-Position Tap Changer, Hot Stick Operable
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps
Tap %: 2.50%
Tap Changer Switch Rating: 200-Amp, 15 kV
Tap Changer Switch Location: Front Compartment, High Voltage (HV) Left Side

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Meets/Exceeds CSA Efficiency Ratings
Complies with ANSI / IEEE C57.12.21
Complies with ANSI / IEEE C57.12.25
Complies with ANSI / IEEE C57 12.28
Complies with ANSI / IEEE C57 12.29
Complies with ANSI / IEEE C57 12.35
Complies with ANSI / IEEE C57 12.38
Complies with ANSI / IEEE C57.12.70
Complies with ANSI / IEEE C57.12.110
Complies with ANSI / IEEE C57.12.131
Complies with ANSI / IEEE C62.11
Complies with ANSI / IEEE C62.22
Complies with ANSI / IEEE 386
Complies with ANSI / IEEE C2
Complies with ANSI / IEEE C37.47
Complies with ANSI Z535.4
Complies with ASTM D3487
Complies with ASTM D6871
Complies with NEMA 260-1996
Complies with 10 CFR Part 431
Complies with CSA C2.1-06
Complies with CSA C50
Complies with CSA C88
Complies with CSA C88.1

Impedance: 1.5-6.0% Typical
Primary Connection Type: Terminal Lugs
Primary Termination Arrangement: ANSI Type I Arrangement
Primary Termination: Externally Clamped Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
Primary Connection Qty: (2) Primary Connections for use w/ Elbow Connectors
Primary Parking Stand Qty: (1) Welded Bracket for Installing Accessory Parking Stand Bushings
Primary Bushing Rating: 15 kV Class, 95 kV BIL, 200A, Load Break, IEEE 386 Color Red
Primary Surge Arrestors: (1) High Voltage Elbow Surge Arrestors, Included
Primary Surge Arrestor Voltage Rating: 10 kV Class
Primary Surge Arrestor MCOV Rating: 8.4 kVrms
Primary Over Current Protection (OCP): C03CB Curve, 65 Amp Rated High Amp Overload Bayonet Fuse in series w/ (2) 80 Amp Partial Current Limiting Fuses (Wired in Parallel)
Primary Over Current Protection Method: Fused, Oil-Immersed
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ Flapper Valve and External Drip Shield, Drip Shield Non-Metallic nad Removable
Primary Neutral Connection: Primary H2 Neutral Internally Bonded to Tank
Primary Grounding Provisions: (1) Welded Ground Bung, 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung, w/ Grounding Terminal Clamp for 2/0-8 AWG Stranded Wire

Secondary Connection Type: Live Font

Secondary Termination Arrangement: ANSI Type I Arrangement
Secondary Over Current Protection (OCP): N/A
Secondary Connections: NEMA Spade Terminals, 6-Hole Single Row Spade, Externally Clamped, Accepts up to (6) Single Lug connections with (1) cables per side of Spade connector
Secondary Connection Qty: (3) Externally Clamped One-Piece Epoxy Bushings w/ 5/8"-11 x 1-1/2" Long Copper Threaded Studs
Secondary Neutral Connection: Secondary X2 Neutral Grounded to Tank via 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung & Copper Ground Strap
Secondary Grounding Provisions: (1) Welded Ground Bung, 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung, w/ Grounding Terminal Clamp for 2/0-8 AWG Stranded Wire
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel: N/A
Load Break Switch: 4-Postion LBOR, Hot Stick Operable
Load Break Switch Qty: 1
Load Break Switch Rating: 200-Amp, 15 kV
Load Break Switch Location: Front Compartment
Efficiency Standard(s): Meets DOE 2016 Standards, Meets CSA Standards Meets ANSI/IEEE Standards
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Pulse Drive Rating: N/A
Temperature Sensors in Coil: Included
Temperature Gauge: Included, Analog
Space Heaters: N/A
Current Transformer: N/A
Potential Transformer: N/A
Winding Material: Copper
Seismic Bracing: Included
Ambient Temperature Rating: 40°C
Ambient Operating Temperature Range: -40°C to +40°C (-50°F to +104°F)
Sound Level: 55 dBA
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level or Below
Core Material: Grain Oriented Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel

Portability: Lifting lugs, 5/8"-11 Thread, Compatible w/ 2.5"-" Lifting Bolts

Housing Type: Low Profile Air-Filled Cabinet w/ Locking Hinged Door, HV/LV in Same Compartment, w/ HV/LV Barrier, Tamper Resistant, w/ Pad-lockable Lift-up Lid
Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet

Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating

Finish Color: Munsell™ 7.0 GY 3.29/1.5 Bell Green
Mounting: Pad Mount
Conduit Opening: Side Feed Underground Entry/Exit
Dimensions*: 53.14"L x 43.30"W x 55.11"H
Weight: 2,314 lbs
*Please note that numbers are approximate and subject to change

Complies with CSA C88-16
Complies with CSA C227.3
Complies with CSA C802.1

Complies with CSA C802.2

Complies with CSA C802.3

Complies with ANSI / IEEE C57.12.00

Features

Pentahead Bolt Entry Assembly
High-Fire Point Insulating Fluid
Non-PCB Insulating Fluid

Tamper Proof Housing

NEMA 3R Wiring Compartment

Lift-Up Pad lockable Lid w/ HV/LV Barrier

Efficiency: 99.20%

Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.

No Load Loss (in watts)*: +/- 683W

Load Loss (in watts)*: +/- 2,763W

Total Load Loss (in watts)*: +/- 3,445W

Note: Losses offered are typical only, not guaranteed

Labeling:
“HIGH VOLTAGE SIGN," "SIZE kVA,"
"ONE-CALL SYSTEM" "CLEARANCE REQUIRED,"
and "NO PCBs" labels
per Austin Energy #1000-13
External Barcode Label

Stainless Steel Riveted Nameplate w/ Barcode

Factory Tests:
Winding Resistance Test
Insulation Resistance Test
Voltage Ratio Error Test
Short-circuit Impedance Test
No-load Loss (Wattage) Test
Load Loss (Wattage) Test
Induced Voltage Withstand Test
Separate Source Voltage Withstand Test
Pressure Integrity Test Test

Shipping:
Shipped on pallet on open flatbed
Palletized on Wooden Pallet w/ Skid Pockets
Pallet Skid Facing Outward Sides of Truck
Note: For low quantity purchases, enclosed truck can be requested
Note: Crated shipping in lieu of palletizing can be done upon request for an additional fee

Cross for Austin Energy #: (insert Austin Energy part #)
Cross for AE MU-ID #: (insert Austin Energy mu-id)
Complies with Specification E-1581 & 1510- 31 Residential
HV/LV Barrier Between Bushings
30" Minimum Cabinet Width
16" HV & 14" LV Compartment Minimum Widths

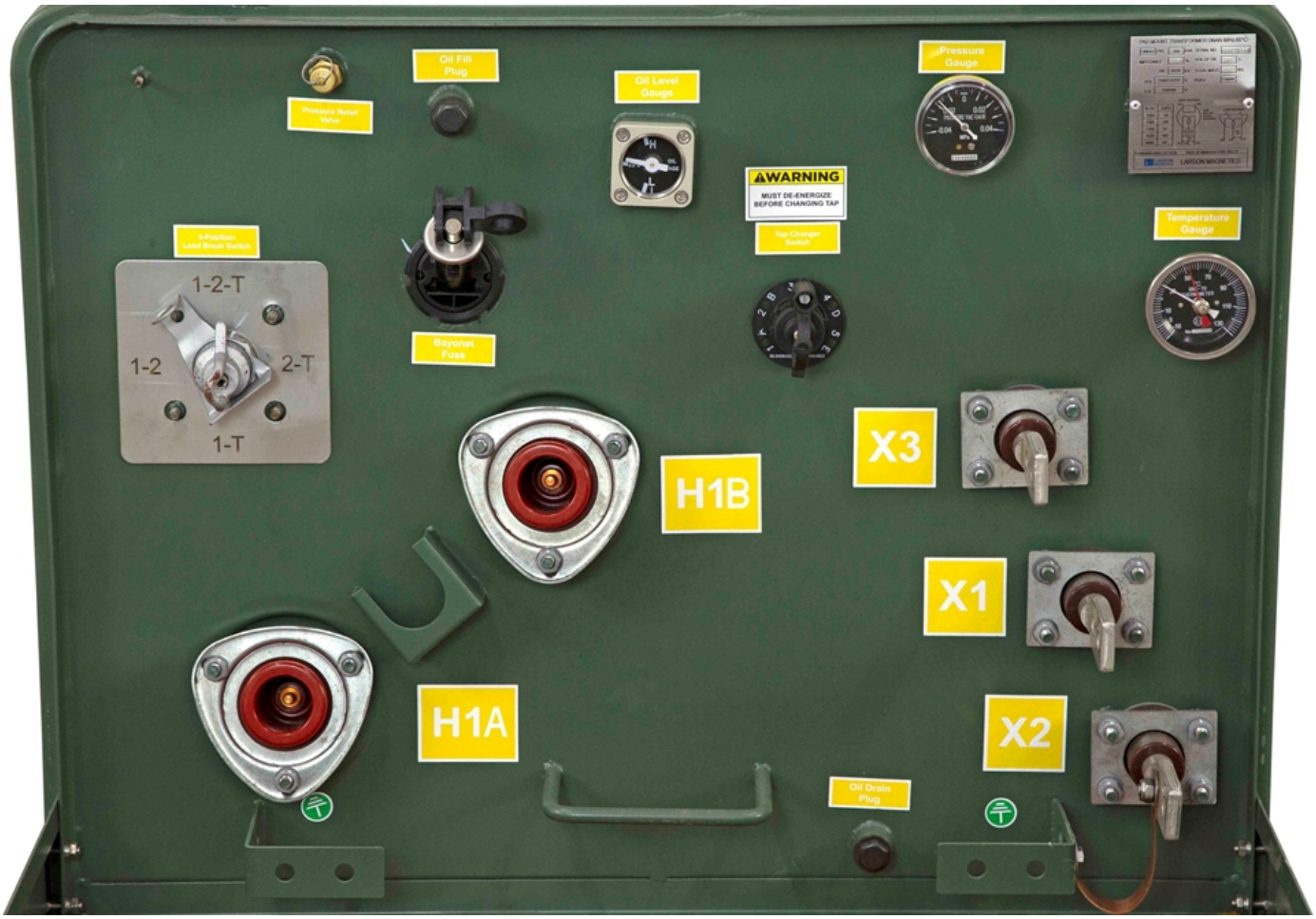
Fault Indicator Light Provisions
Resettable Fault Indicator / Pressure Relief Device

Special Orders - Special Requirements
Contact us for special requirements
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Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The MT-PDT-VPM-R15-1P-GMR-250KVA-SZ-A6-BZ-CZ-2A-ZZ-Z-N3R-M1 Industrial Vacuum Pressure Impregnated Transformer from Larson Electronics is equivalent to Austin Energy # 1510-31-09. This unit complies with the City of Austin Electric Utility Department (Austin Energy) Specification E-1581 for TRANSFORMERS, SINGLE PHASE PADMOUNTED DISTRIBUTION 25 kVA THROUGH 250 kVA.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*
MU-ID: XFMRPM1PH120/240-250-LFR
MU-REF: 15103109
MU-DESCRIPTION: XFMR PM 1PH 120/240 250KVA LP FD RES
Transformer Design Features:
Built to 1510-31 for Residential Applications
12470GrdY/7200 High Voltage
95 kV HV BIL
240/120V Low Voltage
30 kV LV BIL
65°C Temp rise (85°C Hotspot)
HV lead length shall be sufficient to allow for 3.0" withdrawal of the bushing well
200A Primary Well Bushings
Type I Primary Bushing Layout
Primary Bay-O-Net type draw out the fuse in a flapper valve holder & removable drip shield (non metallic)
Primary Partial Current Limiting Fuse
HV/LV Barrier
Epoxy Secondary Bushings w/ Copper Studs
6-Hole Single Row Spade Secondary Bushings
Type I Secondary Bushing Layout
Dry Type, Vacuum Pressure Impregnated, ANN Cooling Class
14.375" Minimum Cabinet Depth
30" Minimum Cabinet Width
16" HV Compartment Width (Left Side)
14" HV Compartment Width (Right Side)
Padlock Provisions & Pentahead Bolt Lock
19/64” hole in the upper left-hand corner 10” from the top and 10” from the left-hand side for customer provided fault indicator light w/ factory installed plug
Resettable Fault Indicator & Pressure Relief Device (comparable to IFD Corporation part number IFD-ORCA-10PSI-aA)
Transformer to fit on 60" x 60" Concrete Pad
Munsell Number 7GY 3.29/1.5 pad-mount green finish
Nameplate w/ Barcode
“HIGH VOLTAGE SIGN," "SIZE kVA," "ONE-CALL SYSTEM" "CLEARANCE REQUIRED," and "NO PCBs" labels per Austin Energy #1000-13
Applications: General purposes, industrial sites, electrical rooms, underground vaults, manufacturing facilities, steel plants, offshore, commercial, military, processing plants, electric power distribution, utilities, public locations and more. 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.


NO PCBs
LARSONELECTRONICS.COM
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WARNING
HAZARDOUS VOLTAGE INSIDE.
KEEP OUT!
Can shock, burn or cause death.
If found damaged or unlocked call your local utility company.
WARNING
Underground power cables are located in this area.
Before digging call 811.
Can shock, burn or cause death.
NOTICE


Pressure Relief Valve
Oil Fill Plug
Oil Level Gauge
Pressure Gauge
WARNING
MUST DE-ENERGIZE BEFORE CHANGING TAP
Tap Changer Switch
Temperature Gauge
4-Position Load Break Switch
1-2-T
1-2
2-T
1-T
Bayonet Fuse
H1B
X3
X1
H1A
X2
Oil Drain Plug





Frequently Asked Questions (FAQ)