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MT-PML-R15-3P-DMR-750KVA-YT-LT-DF-A6-BB-CZ-2B4-M2

Austin Energy, 750 KVA Pad Mount Transformer, 12470V Pri., 208Y/120 Sec., Mineral Oil, ONAN, CU, Green, City of Austin Spec

Product ID: 306323

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.

MT-PML-R15-3P-DMR-750KVA-YT-LT-DF-A6-BB-CZ-2B4-M1 Pad Mount Transformer	Ratings
Transformer Type: Pad Mounted, Compartmental-Type	Meets/Exceeds DOE 2016 Efficiency Ratings
Transformer Configuration: Liquid Filled Pad Mounted	Meets/Exceeds CSA Efficiency Ratings
Transformer Feed Type: Loop Feed	Complies with ANSI / IEEE C57.12.00
Operation: Step-Down Operation (Not Approved for Step-Up)	Complies with ANSI / IEEE C57 12.28
Phase: Three Phase	Complies with ANSI / IEEE C57 12.29
Capacity: 750 KVA	Complies with ANSI / IEEE C57 12.34
Vector Group: DYN1	Complies with ANSI / IEEE C57 12.35
Primary Voltage: 12470GrdY/7200	Complies with ANSI / IEEE C57.12.70
Primary Voltage Switch: N/A	Complies with ANSI / IEEE C57.12.110
Primary Voltage Class: 15 kV Class	Complies with ANSI / IEEE C57.12.131
Primary Phasor: Grounded Wye	Complies with ANSI / IEEE C62.11
Primary BIL: 95 KV	Complies with ANSI / IEEE C62.22
Secondary Voltage: 208Y/120	Complies with ANSI / IEEE 386
Secondary Voltage Class: 1.2 kV Class	Complies with ANSI / IEEE C2
Secondary Phasor: Wye-N	Complies with ANSI / IEEE C37.47
Secondary BIL: 30 KV	Complies with ANSI Z535.4
Frequency: 60 Hz	Complies with ASTM D3487
Temperature Rise: 65°C	Complies with ASTM D6871
Insulation Rating: Class E Insulation - 120°C, 248°F	Complies with NEMA 260-1996
Cooling Class: ONAN; Self-Cooled	Complies with 10 CFR Part 431
Forced Air (Fans): None	Complies with CSA C2.1-06
Tap Changer: 5-position Tap Changer	Complies with CSA C50
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps	Complies with CSA C88
Tap %: 2.5%	Complies with CSA C88.1
Tap Changer Switch Rating: 200-Amp, 15 kV, 10kA RMS	Complies with CSA C88-16

Tap Changer Switch Location: High Voltage (HV) [Left Side] Front Compartment
Impedance (Typical): 5.0-7.5% Typical, Target 6.5%
Primary Connection Type: Dead Front
Primary Termination Arrangement: V Terminal Arrangement
Primary Termination: Externally Clamped Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
Primary Connection Qty: (6) Primary Connections for use w/ Elbow Connectors
Primary Parking Stand Qty: (6) Welded Brackets for Installing Accessory Parking Stand Bushings
Primary Bushing Rating: 15 kV Class, 95 kV BIL, 200A, Load Break, IEEE 386 Color Red
Primary Neutral Connection: N/A
Primary Surge Arrestors: (3) High Voltage Elbow Surge Arrestors, Included
Primary Surge Arrestor Voltage Rating: 18 kV Class Elbow Arrestor
Primary Surge Arrestor MCOV Rating: 15.3 kVrms
Primary Over Current Protection (OCP): C03CB Curve, 65-Amp Bayonet Expulsion Fuse in series w/ 165-Amp In-Tank Oil Immersed Partial-Range Current-Limiting Fuse
Primary Over Current Protection Method: Fused, Oil-Immersed
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ Flapper Valve and External Drip Shield
Primary Grounding Provisions: (1) NEMA Ground Bar attached to tank via (2) Welded Ground Bungs in HV Cabinet
Secondary Connection Type: Live Front
Secondary Termination Arrangement: Staggered Terminal Arrangement
Secondary Connections: NEMA Spade Terminals, 10-Hole Spade, Externally Clamped, Accepts up to (6) Double Lug connections with (3) cables per side of Spade connector
Secondary Connection Qty: (4) Externally Clamped One-Piece Epoxy Bushings Copper Threaded Studs
Secondary Connection Supports: Phenolic Spade End Supports
Secondary Over Current Protection (OCP): N/A
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) NEMA Ground Bar attached to tank via (2) Welded Ground Bungs in LV Cabinet
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel: N/A
Load Break Switch: 4-Position Load Break Switch
Load Break Switch Qty: (1)
Load Break Switch Rating: 200-Amp, 15 kV, 10kA RMS
Load Break Switch Location: High Voltage (HV) 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
Insulation Fluid: Mineral Oil - Non PCB Fluid
Fluid (Oil) Capacity*: 175 Gallons
Fluid (Oil) Weight*: 1,345 lb
Liquid Level Indicator: Analog Dial Gauge, Located in HV Cabinet
Temperature Indicator: Analog Dial Gauge, Located in HV Cabinet
Pressure/Vacuum Indicator: Analog Dial Gauge, Located in LV Cabinet
Pressure Relief Device: Automatic Action, Combination Fault Indicator & Pressure Relif Device, (comparable to IFD Corporation part number IFD-ORCA-10PSI-aA), Resettable, Installed on Tank Face Inside HV Cabinet
Fault Indicator: Combination Fault Indicator & Pressure Relif Device; External Fault Indicator Light Mounting Provisions (Light not included)
Gas Sampler Valve: Included, Schrader Valve, Located in HV Cabinet
Fill Valve: 1" NPT Port w/ Removable Bolt Plug
Fill Valve Location: Front Compartment, HV Cabinet
Drain Valve: 1" NPT Port w/ 5/8" NPT Sampler Valve
Drain Valve Location: Front Compartment, HV Cabinet
Winding Material: Copper
Ambient Temperature Rating: 40°C
Ambient Operating Temperature Range: -40°C to +40°C (-50°F to +104°F)
Sound Level: 58 dBA

Elevation (Altitude): 3300ft (1000 meters) Above Sea Level

Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Portability: Lifting lugs, provisions for jacking under base, w/ base construction

Complies with CSA C227.4
Complies with CSA C227.5
Complies with CSA C802-3
Complies with CSA C802.1

Features

Penta-head Bolt Entry Assembly

High-Fire Point Insulating Fluid

Non-PCB Insulating Fluid
Tamper Proof Housing
Hinged Front Compartment Doors, Pad Lockable
NEMA 3R Wiring Compartment

Hot Stick Included, HV Door Mount

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): +/- 1,000W

Full Load Loss (in watts) at 100%: +/- 6,500W

Total Load Loss (in watts) at 100%: +/- 7,500W

Total Losses at 55°C LL Temp.& 20°C NL Temp.

Total Load Loss (in watts) at 50%: +/- 2,567W

Note: Losses offered are typical only, not guaranteed

Labeling:

“Three in One Warning Sign," "SIZE kVA,"
"City ID Number" "Secondary Voltage"
"Type of XFMR" "Circuit Number"
"Transformer Number" "CLEARANCE REQUIRED,"
and "NO PCBs" labels per Austin Energy #1000-14A
External Barcode Label
Internal Busing & Accessory Labeling
Stainless Steel Riveted Nameplate

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: Crated shipping in lieu of palletizing can be done upon request for an additional fee

Cross for Austin Energy Product
Complies with Specification E-649
Fault Indicator Light Provisions
Resettable Fault Indicator / Pressure Relief Device

suitable for using rollers or skidding
Housing Type: Compartmental Air-Filled Cabinet w/ Locking Doors, HV Compartment Left, LV Compartment Right, Steel Barrier Separation, HV Door Spring-Loaded Release Pin in LV Compartment
Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet, Sealed Tank
Seismic Rating: Yes
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: Munsell™ 7.0 GY 3.29/1.5 Bell Green
Mounting: Pad Mounted
Conduit Opening: Bottom Feed Underground Entry/Exit
HV Cabinet Dimensions*: 40"-W x 26"-D
LV Cabinet Dimensions*: 30"-W x 26"-D
HV Compartment Base Wireway Dimensions*: 31"-W x 18"-D for (2) 6" Conduit per AE Drawing
LV Compartment Base Wireway Dimensions*: 24"-W x 18"-D for (10) 4", (1) 2", & (2) 1-1/4" Conduit per AE Drawing
MV/LV Compartment Cabinet Depth*: 24"-D
Tank Cover Access Handhole: N/A
Dimensions*: 69"-W x 63"-D x 73"-H
Dry Weight (w/o Oil)*: 2,762 lb
Total Weight (Liquid Filled)*: 5,732 lb
*Please note that numbers are approximate and subject to change

Special Orders - Special Requirements
Contact us for special requirements
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The MT-PML-R15-3P-DMR-750KVA-YT-LT-DF-A6-BB-CZ-2B4-M2 Industrial Pad Mount Transformer from Larson Electronics is equivalent to Austin Energy Products. This unit complies with the City of Austin Electric Utility Department (Austin Energy) Specification E-649 for TRANSFORMER, DIST, URD, 3PH, 75 2500KVA, 15KV
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*
Transformer Design Features:
12470V Delta High Voltage
95 kV HV BIL
208Y/120 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 w/ Removable Well Inserts
Primary Bay-O-Net type draw out the fuse in a flapper valve holder & removable drip shield (non metallic), sidewall-mount bayonet draw-out fuse holder assembly with flapper seal.
Primary Dual Sensing dual sensing expulsion fuse in series w/ oil-immersed current Limiting Fuses. Fuses shall be designed so that the fuses can be removed by using a hot stick
HV/LV Barrier
Epoxy Secondary Bushings w/ Copper Studs
6-Hole H-Space Double Row Spade Secondary Bushings w/ Phenolic End Supports
4-Position Load Break Switch. T-Blade Switch, 200A rated, 10,000 amps symmetrical.
Mineral Oil, Non-PCBs Containing Cooling Fluid, ONAN Cooling Class
Padlock Provisions & Penta-head Bolt Lock
Oil Fill Port w/ Plug, in HV compartment
Oil Drain Valve w/ sampling device, in HV compartment
Analog Liquid Level Gauge, in HV compartment
Analog Temperature Indicator Gauge, in HV compartment
Automatic action pressure relief device, automatically venting 35 scfm at 15 psig, located in LV compartment
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)
Removable Base Sill
Stainless Steel Hinges & Pins

Transformer to fit on 120" x 120" Concrete Pad
Minimum 31"-W x 18"-D Primary (HV) Wireway Hole for (2) 6" Conduit - Includes Removable Bolt-On Base Plate w/ Knockout Holes
Minimum 24"-W x 18"-D Secondary (LV) Wireway Cutout for (10) 10" Conduit, plus (1) 2" Conduit for contraction look, and (2) 1-1/4" Conduit - Includes Removable Bolt-On Base Plate w/ Knockout Holes
Munsell Number 7GY 3.29/1.5 pad-mount green finish
Nameplate w/ Barcode per E-649
"Three in One Warning Sign," "SIZE kVA," "City ID Number" "Secondary Voltage" "Type of XFMR" "Circuit Number" "Transformer Number" "CLEARANCE REQUIRED," and "NO PCBs" labels per Austin Energy #1000-14A
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.

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Frequently Asked Questions (FAQ)


Non PCB
NOTICE
WARNING
ADVERTENCIA

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Product ID: 306323

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map