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MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1

225 KVA Pad Mount Transformer - 12470V Delta Primary, 120/240V Secondary - Mineral Oil Fluid /ONAN - Bell Green

Product ID: 322194



Image: MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1

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-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 Pad Mount Transformer

Transformer Type: Pad Mounted, Compartmental-Type II
Transformer Configuration: Liquid Filled Pad Mounted
Transformer Feed Type: Loop Feed, Type II
Polarity: Additive
Phase: Single Phase (Connects to 3-Phase electrical grid)
Capacity: 225 KVA
Vector Group: II6
Primary Voltage: 12470V
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Delta
Primary BIL: 95 KV
Secondary Voltage: 120/240V (L-N-L)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Dual Windings, Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F

Cooling Class: ONAN; 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%

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE C57.12.00
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 C62.11
Complies with ASTM D3487
Penta-head Bolt Entry Assembly
Lift-Up Pad lockable Lid
Non-PCB Insulating Fluid
Tamper Proof Housing
NEMA 3R Wiring Compartment

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

Tap Changer Switch Rating: 200-Amp, 15 kV
Tap Changer Switch Location: Front Compartment, High Voltage (HV) Left Side
Impedance: 1.5-6.0% Typical
Primary Connection Type: Dead Front
Primary Termination Arrangement: ANSI Type II 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: (2) Welded Bracket for Installing Accessory Pakring Stand Bushings
Primary Bushing Rating: 15 kV Class, 95 kV BIL, 200A, Load Break, w/ bushing well inserts, Bushings Removable & To Be Supplied With Removable Stud
Primary Surge Arrestors: (2) High Voltage Elbow Surge Arrestors, Included
Primary Surge Arrestor Voltage Rating: 15 kV Class
Primary Surge Arrestor MCOV Rating: 12.7 kVrms
Primary Overcurrent Protection (OCP): (2) Bayonet Expulsion Fuses, 10A
Primary Overcurrent Protection Method: Fused, Oil-Immersed
Primary Overcurrent Protection Holder: Bayonet Fuse Holder w/ External Drip Shield
Primary Neutral Connection: N/A
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 II Arrangement
Secondary Connections: NEMA Spade Terminals, 6-Hole Spade, Complies to IEEE C57.12.38
Secondary Over Current Protection (OCP): N/A
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: 2-position Load Break Switch
Load Break Switch Qty: (3)
Load Break Switch Rating: 200A, 15 kV
Load Break Switch Location: HV Side
Efficiency Standard(s): Meets DOE 2016 Standards, Meets ANSI/IEEE Standards
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Pulse Drive Rating: N/A
Insulation Fluid (Oil Type): Mineral Oil, Non-PCB Fluid
Fluid (Oil) Capacity*: 110 Gallons
Fluid (Oil) Weight*: 992.06 Lbs
Liquid Level Indicator: N/A
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included, Automatic Action
Gas Sampler Valve: N/A
Fill Valve: 1/2" NPT w/ Removable Bolt Plug
Fill Valve Location: Front Compartment
Drain Valve: 1" NPT w/ Removable Bolt Plug, w/o Sampler
Drain Valve Location: Front Compartment
Lifting Provisions: Included, On the Top
Winding Material: Aluminum
Ambient Temperature Rating: 40°C
Sound Level: 55 dBA
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level or Below
Core Material: Grain Oriented Steel
Tank Material: Coated Steel

Total Load Loss (in watts)*: +/- 3,445W
Note: *Losses offered are typical only, not guaranteed*

Labeling:
Externally Stencilled (Painted) KVA Rating
Externally Stencilled (Painted) Voltage Rating
External Non-PCB Label
External Warning & Danger Label
External Barcode Label
Internal Busing & Accessory Labeling
Stainless Steel Riveted Nameplate

Factory Tests:
Winding-Winding & Winding-Ground Resistance Tests
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
TTR Test ,all tap positions
Insulation Power Factor Test, all windings
Dissolved Gas Analysis

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*

Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Portability: Lifting lugs
Housing Type: Low Profile Air-Filled Cabinet w/ Locking Hinged Door, HV/LV in Same Compartment ,Tamper Resistant, w/ Pad-lockable Lift-up Lid
Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet, Sealed Tank
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: Munsell™ 7GY 3.29/1.5 Bell Green
Mounting: Pad Mount
Conduit Opening: Bottom Feed Underground Entry/Exit
Compartment Base Wireway Dimensions*: 55"-L x 21"-D
Compartment Cabinet Depth: 19"
Dimensions*: 55.12"-W x 51.18"-D x 33.07"-H
Dry Weight (w/o Oil)*: 1609.35 Lbs
Total Weight (Liquid Filled)*: 3306.85 Lbs
*Please note that numbers are approximate and subject to change

Special Orders - Special Requirements
Contact us for special requirements
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E-mail: sales@larsonelectronics.com

The MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 from Larson Electronics is an Industrial Pad Mount Transformer that offers powerful, reliable, and efficient power distribution in indoor, outdoor and public locations. The low operating costs, low heat emissions, and low cost of ownership make this transformer ideal for a wide range of applications and businesses. An enclosed design caters to installations on concrete pads without protective fencing.

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

Transformer Features: With a transformer rating of 225 kVA, the industrial transformer features a primary voltage of single-phase 12470V Delta and a secondary voltage of single-phase 120/240V (L-N-L). The unit has a primary loop feed and dead-front primary connections. We also offer systems with radial feed and live front primary/live front secondary connections. This transformer features a 5-position tap changer with (2) +2.5% taps above and (2) -2.5% taps below to allow small changes in voltage. This pad mount transformer features primary well bushings and standard spade connectors on the secondary side. Equipped with aluminum windings, this transformer consists of one coil and two core loops.

The MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 is air cooled and does not have fans or mounting provisions for fans. This unit features a 65°C temperature rise for reduced heat waste, increased reliability and longer life. The transformer meets DOE 2016 efficiency standards. The combination of low temperature rise and high efficiency makes this unit suitable for use in electrical rooms, air conditioned spaces in buildings, underground vaults, and similar locations, in addition to outdoor areas.

Insulation Fluid: The MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 features mineral oil cooling fluid (ONAN). We offer transformers with biodegradable or FR-3 fluids, if needed.

Biodegradable Fluid: Biodegradable cooling fluid (vegetable oil) has a higher heat capacity compared to mineral oil, making the liquid safer to use and more reliable during operations. Vegetable oil has a higher flash point and fire point than mineral oil, hydrocarbon oil, silicone oil and synthetic ester. This cooling fluid is also non-toxic and can tolerate higher breakdown voltages than mineral oil. When operating at high temperatures, biodegradable cooling liquid sustains up to 120% loan conditions, which helps preserve the transformer's lifespan and

performance.

Gauges: The following gauges are not included with the system: liquid level, temperature and pressure/vacuum gauges.

Fault Pressure Devices: This transformer features an automatic action fault pressure device. Fault pressure devices are used to detect high rates of pressure rise within the tank.

Rapid Rise Relay: There are no rapid rise relays on the unit. This safety component is designed for protection when a rapid increase in tank pressure occurs. The relay is suitable for detecting sudden pressure fluctuations above predetermined safe limits.

Surge arresters: This system comes with high elbow surge arresters on the primary side. Designed for over-voltage and transient voltage protection, the components prevent damage caused by lightning, internal switching or voltage surges. We can offer models without high elbow surge arresters that have mounting provisions for customer-provided surge arresters.

Load Breaker Switch: This transformer is equipped with three independently operated 2-position load break switches on the primary side. One is for the transformer, one is for the secondary A lines, and one is for the secondary B lines.

Valves: The MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 is equipped with a fill valve and drain valve with sampler port.

Protection Fuses: This transformer contains bayonet protection fuses on the primary side. For units without protection fuses, upstream protection is provided. We recommend provisions for protection fuses when possible, as blown fuses may require more frequent oil changes.

Mount: The heavy-duty enclosure makes the unit suitable for both indoor and outdoor applications. This power distribution system can be pad mounted on concrete pads.

Benefits: The MT-PML-R7-1P-DMR-225KVA-SLZ-LT-DF-A6-BM-AZ-2B6-M1 pad mount transformer offers many benefits to consumers. 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 turns into cost savings for owners in the form of lower energy bills and decreased cost of ownership.

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.

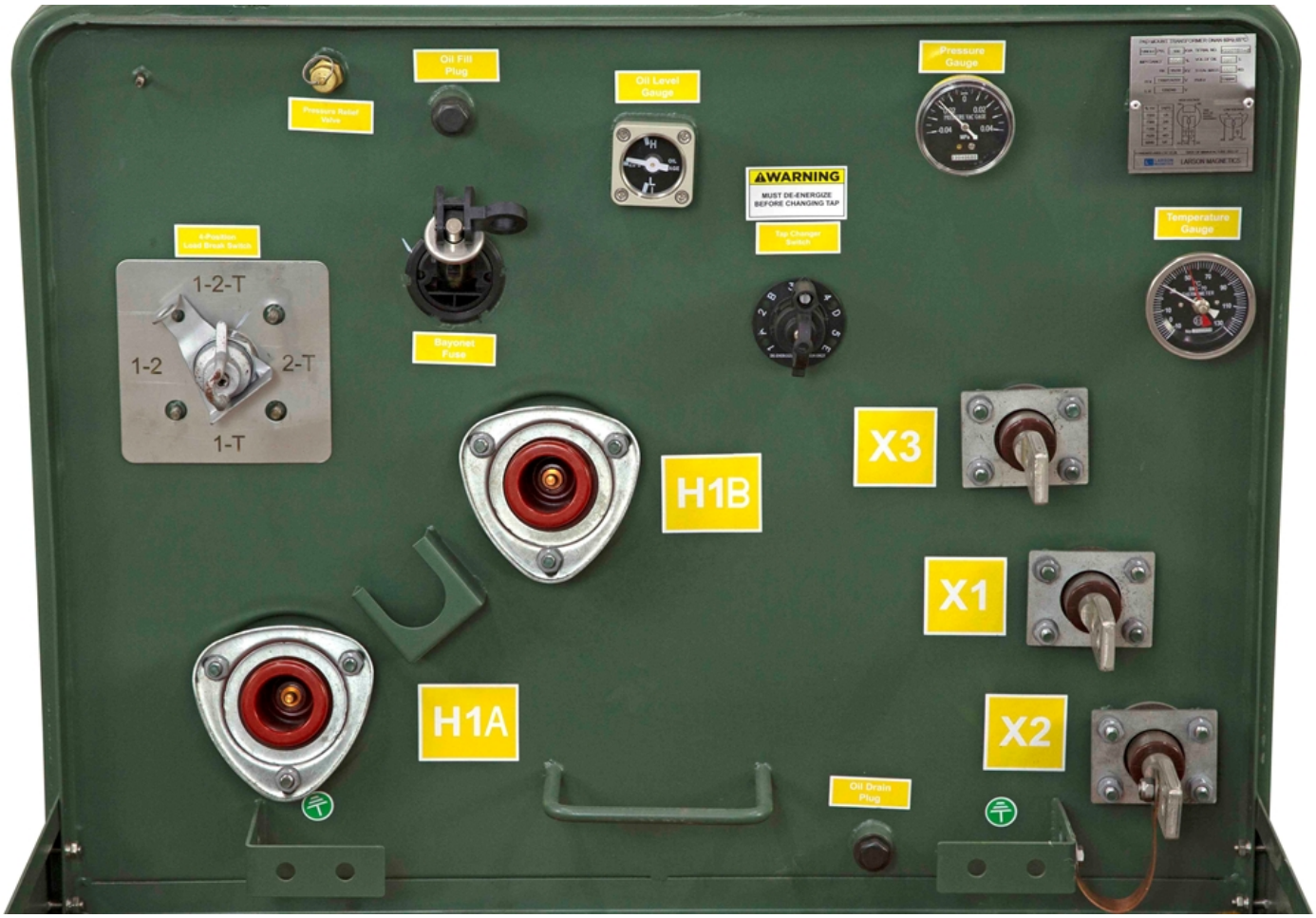
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Frequently Asked Questions (FAQ)

There are no Faqs