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MT-PML-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1

El Paso Electric Company, 75 KVA Pad Mount Transformer - 13800Y/7970 Grounded Wye Primary, 120/240V Secondary - Mineral Oil Fluid /ONAN - ESE 087.040

Product ID: 305839



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-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 Pad Mount Transformer	Ratings
Transformer Type: Pad Mounted, Compartmental-Type I	Meets/Exceeds DOE 2016 Efficiency Ratings
Transformer Configuration: Liquid Filled Pad Mounted	Complies with ANSI / IEEE #C57.12.00
Transformer Feed Type: Loop Feed	Complies with ANSI / IEEE #C57.12.25
Phase: Single Phase	Complies with ANSI / IEEE C57 12.28
Capacity: 75 KVA	Complies with ANSI / IEEE C57 12.38
Vector Group: II6	Complies with ANSI / IEEE C57.12.70
Primary Voltage: 13800GrdY/7970	Complies with ASTM D3487
Primary Voltage Switch: N/A	Pentahead Entry Assembly
Primary Voltage Class: 15 kV Class	High-Fire Point Natural Ester Insulating Fluid
Primary Phasor: Grounded Wye	Non-PCB Insulating Fluid
Primary BIL: 95 KV	Tamper Proof Housing
Secondary Voltage: 120/240V (L-N-L)	Lift Up Pad lockable Lid
Secondary Voltage Class: 1.2 kV Class	
Secondary Phasor: Dual Winding Single Phase	**Efficiency: 98.90%**
Secondary BIL: 30 KV	*Based on transformer operating at 50% of nameplate base kVA.*
Frequency: 60 Hz	
Temperature Rise: 65°C	**Load Losses Based on 85°C Reference Temp.**
Insulation Rating: Class E Insulation - 120°C, 248°F	**No Load Loss (in watts)*: +/- 176W**
Cooling Class: ONAN; Self-Cooled	**Load Loss (in watts)*: +/- 650W**
Forced Air (Fans): None	**Total Load Loss (in watts)*: +/- 826W**
Tap Changer: 5-Position Tap Changer	
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps	***Note: Losses offered are typical only, not guaranteed***
Tap %: 2.50%	
Tap Changer Switch Location: Front Compartment	**Labeling:**
Impedance: 1.0-2.0% Typical	Externally Stencilled (Painted) KVA Rating
Primary Connection Type: Dead Front, Type I	Externally Stencilled (Painted) Voltage Rating
Primary Termination: Standoff Well Bushings w/ Removable Studs, 200A Load Break	External Non-PCB Label

Elbows w/ Inserts
Primary Connection Qty: (2) Primary Connections w/ (1) Standoff Brackets for Parked Elbows
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): Bayonet-type, liquid-immersed, expulsion fuse in series with liquid immersed, partial-range, current-limiting fuse
Primary Over Current Protection Method: Fused
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ Drip Shield
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, Type I
Secondary Connections: Threaded Stud Terminals, 5/8"-11 size
Secondary Over Current Protection (OCP): N/A
Secondary Connection Qty: (3)
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
Auxilary Control Panel : N/A
Load Break Switch: N/A
Load Break Switch Qty: N/A
Load Break Switch Location: N/A
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: Mineral Oil - Non PCB Fluid - Non-PCB Fluid
Fluid Capacity*: 110 Gallons
Liquid Level Indicator: Analog Gauge
Temperature Indicator: Analog Gauge
Pressure/Vacuum Indicator: Analog Gauge
Pressure Relief Device: Included, Automatic Action
Fill Valve: Removable Bolt
Fill Valve Location: Front Compartment
Drain Valve: Included, w/ Sampler
Drain Valve Location: Front Compartment
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 48 dBA
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level or Below
Core Material: Steel
Tank Material: Coated Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Housing Type: Tamper Resistant w/ Pad-lockable Lift-up Lid. Equipped with raised locking handle located minimum 12"
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: Bottom Feed Underground Entry/Exit
Dimensions*: 33''-W x 32''-D x 24''-H
Pad Dimensions*: 44''-W x 40''-D w/ 28"W x 15"D Wire Way Opening
Weight*: 800 lb
*Please note that numbers are approximate and subject to change

External Warning & Danger Label
External Barcode Label
Internal Busing & Accessory Labeling
Stainless Steel Riveted Nameplate
"EPE" Serial Number Sticker included on the inside and front of transformer (2" and 7" in length)
Serial Number Lettering "El Paso Electric" included

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

Special Orders - Special Requirements
Contact us for special requirements
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The MT-PML-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 Industrial Pad Mount Transformer from Larson Electronics 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 makes 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 75 kVA, the industrial

transformer features a primary voltage of single-phase 13800Y/7970 Grounded Wye 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 dead 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 for voltage. This pad mount transformer features primary well bushings and standard spade connectors on the secondary side. Equipped with copper windings, this transformer consists of one coil and two core loops.

The MT-PML-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 is air cooled and does not have fans or mounting provision for fans. This unit features a 60°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-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 features mineral oil insulation fluid. We offer transformers with FR-3 oil fluid, if needed.

Gauges: The following gauges are included with the system: liquid level, temperature and pressure/vacuum gauges. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types. These gauges do not have auxiliary contacts.

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 does not come with high elbow surge arresters on the primary side.

Load Breaker Switch: The MT-PML-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 is equipped with a load break switch. This switch has four positions: A side on + transformer on, B side on + transformer on, A and B sides + transformer on, and A and B sides + transformer off.

Valves: The MT-PML-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-M1 is equipped with a fill valve and drain valve with sampler port.

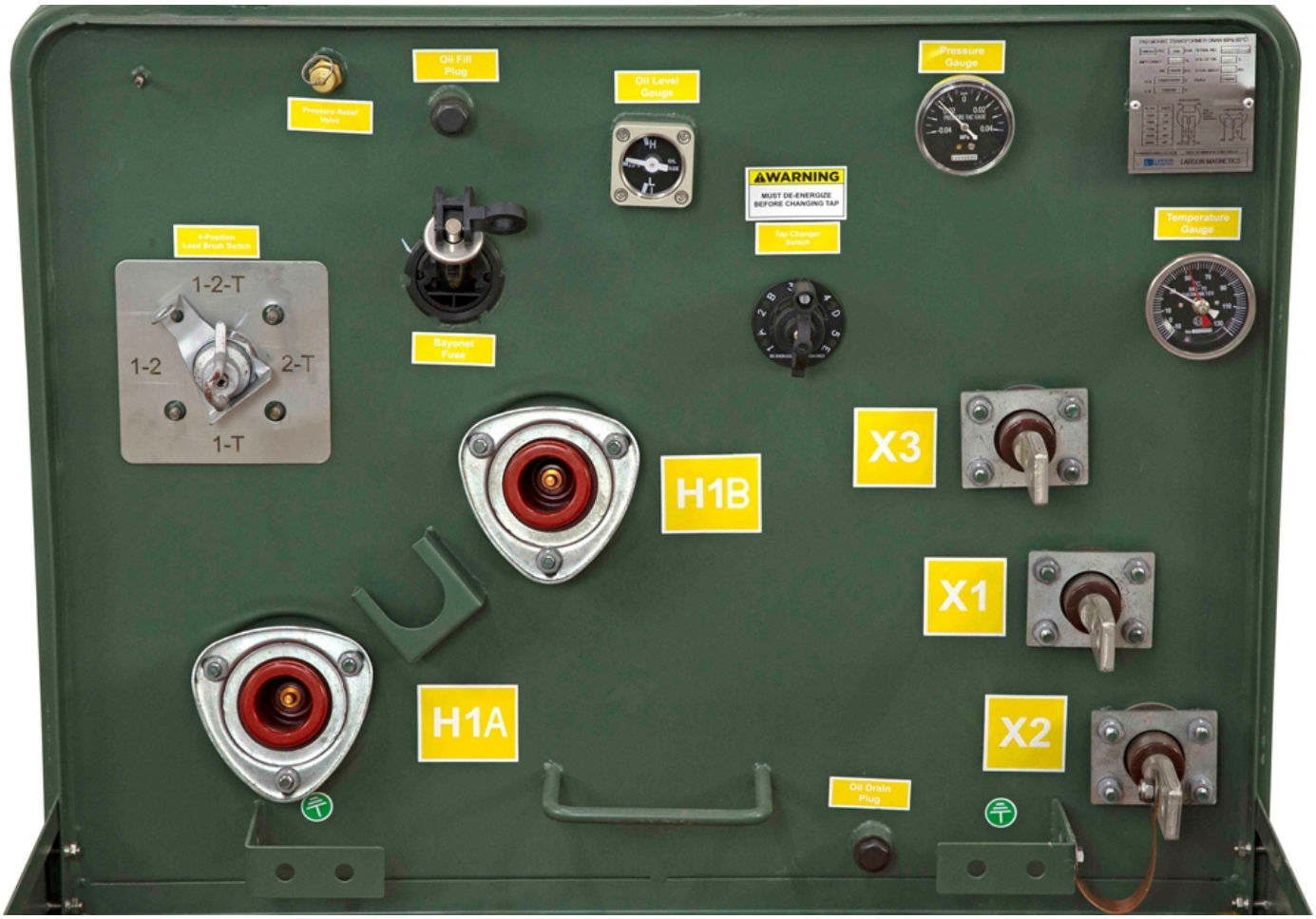
Protection Fuses: This transformer contains bayonet protection fuses on the primary side. For units without protection fuses, up stream protection is provided. We recommend provisions for protection fuses when possible, as blown fuses may require more frequent oil changes.

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-R109-1P-GMP-75KVA-SLZ-LT-DF-A6-BM-CZ-2B4-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.


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)