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MT-PML-R7-1P-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1

37.5 KVA Pad Mount Transformer - 24940Y/14400 Grounded Wye Primary, 230V Secondary, Mineral Oil /ONAN, Aluminum, Bell Green

Product ID: 322764

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MT-PML-R7-1P-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-2B4-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-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1 1PH Pad Mount Transformer

Transformer Type: Pad Mounted, Compartmental-Type
Transformer Configuration: Liquid Filled Pad Mounted
Transformer Feed Type: Loop Feed
Transformer Polarity Type: Subtractive
Phase: Single Phase
Capacity: 37.5 kVA
Vector Group: II6
Primary Voltage: 24940Y/14400
Primary Phasor: Grounded Wye
Primary BIL: 125 kV
Secondary Voltage: 230V (L-N)
Secondary Phasor: Single Winding, Single Phase
Secondary BIL: 30 KV
Frequency: 50 Hz
Temperature Rise: 65°C

Cooling Class: ONAN; Self-Cooled

Forced Air (Fans): None
Tap Changer: 5-Position No-Load Tap Changer w/ External Operating Handle

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.25
Complies with ANSI / IEEE C57.12.70
Complies with ANSI / IEEE C57 12.28
Complies with ANSI / IEEE C57 12.38
Complies with ASTM D3487
Non-PCB Insulating Fluid
Penta-head Entry Assembly
High-Fire Point Natural Ester Insulating Fluid
Lift Up Pad lockable Lid
Tamper Proof Housing

Efficiency: 98.80%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.

Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%
Tap Changer Switch Location: HV Side
Impedance: 1.0-4.5% Typical, 2.91% Target
Primary Connection Type: Dead Front
Primary Termination: Standoff Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
Primary Connection Qty: (2) Primary Connections w/ (1) Standoff Brackets for Parked Elbows
Primary Surge Arrestors: Included, (1) High Voltage Elbow Surge Arrestors
Primary Surge Arrestor Voltage Rating: 24 kV Class
Primary Surge Arrestor MCOV Rating: 19.5 kVrms
Primary Overcurrent Protection (OCP): Bayonet Fusess
Primary Overcurrent Protection Method: Fused
Primary Overcurrent Protection Holder: Bayonet Fuse Holder w/ Drip Shield
Primary Grounding Provisions: (1) Grounding lug, accepts #2 copper
Secondary Connection Type: Live Font
Secondary Connections: 5/8" x 11" One-Piece Epoxy Bushings w/ 1-1/2" Long Copper Threaded Studs, Externally Clamped, w/ NEMA Spade Terminals, 4-Hole Spade, Externally Clamped, Accepts up to (4) Single Lug connections with (1) cables per side of Spade connector
Secondary Connection Qty: (2)
Secondary Grounding Provisions: (1) Grounding lug, accepts #2 copper
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 Location: High Voltage (HV) Front Compartment
Efficiency: Meets DOE 2016 Standard
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Pulse Drive Rating: N/A
Insulation Fluid: Mineral Oil - Non PCB Fluid
Fluid Capacity*: 80.67 Gallons
Fluid Weight*: 727.51 lbs
Liquid Level Indicator: N/A
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Automatic Action, Cracking Pressure @ 10 PSIG, Releasing Pressure @ 8 PSIG, Flow @ 15 PSIG (50 SCFM) @ 14.7 PSGI
Fill Valve: 1/2" NPT Port w/ Removable Bolt
Fill Valve Location: Front Compartment
Drain Valve: 1/2" NPT Port w/ Removable Bolt (No Sampler)
Drain Valve Location: Front Compartment
Winding Material: Aluminum
Ambient Temperature Rating: 40°C
Sound Level: 48 dBA
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level
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
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
Compartment Base Wireway Dimensions*: 35"-L x 25"-D
Compartment Cabinet Depth: 27"-D
Dimensions*: 39.37"-W x 52.36"-D x 32.72"-H

No Load Loss (in watts)*: 137W
Load Loss (in watts)*: 468W
Total Load Loss (in watts)*: 605W
Note: *Losses offered are typical only, not guaranteed*

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

Dry Weight (w/o Oil)*: 462.96 lbs
Total Weight (Liquid Filled)*: 1653.44 lbs
*Please note that numbers are approximate and subject to change

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The MT-PML-R7-1P-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-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 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 37.5 kVA, the industrial transformer features a primary voltage of single-phase 24940Y/14400 Grounded Wye and a secondary voltage of single-phase 230V (L-N). 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 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-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-2B4-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: This transformer features non-PCB mineral oil insulation fluid. We offer transformers with biodegradable cooling fluid, if needed.

Gauges: This transformer does not feature temperature gauge, oil level gauge, or pressure/vacuum gauge.

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: The MT-PML-R7-1P-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-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-R7-1P-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-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, 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-GMF-37.5KVA-SQ-LT-DF-A5-BM-AZ-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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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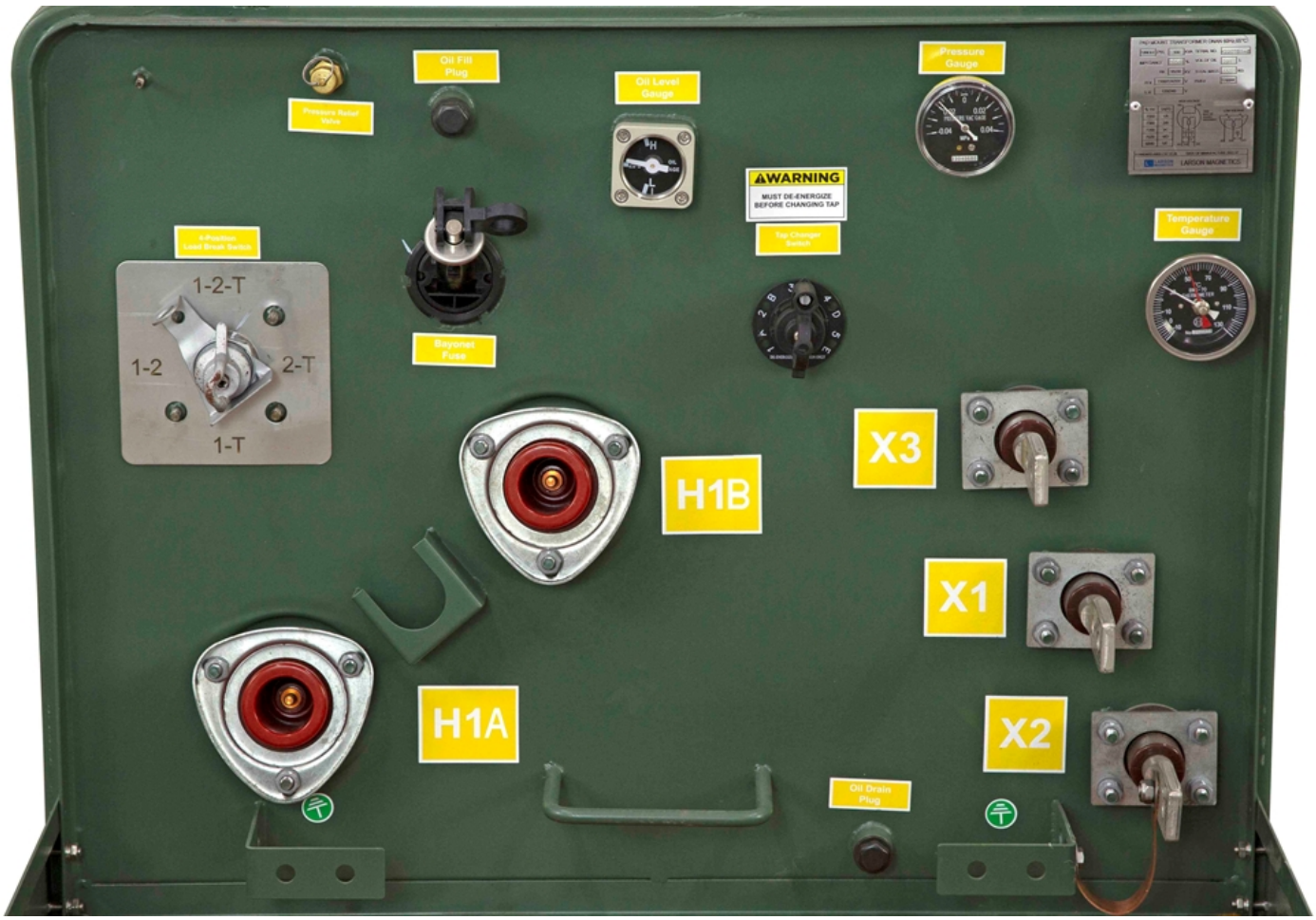


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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/322764.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/322764.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/322764.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/322764.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/322764.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/322764.JPG)
- **Video1**(https://www.youtube.com/watch?v=mpt7J5hdJp8)
- **Video2**(https://www.youtube.com/watch?v=KIzsyVtvSWM)
- **Video3**(https://www.youtube.com/watch?v=mN2qPmdLwW4)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)