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MT-PML-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2

50 KVA Pad Mount Transformer - 24940Y/14400 Grounded Wye Primary, 12470Y/7200 Grounded Wye Secondary - Mineral Oil Fluid / ONAN

Product ID: 306203

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-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 1-Wire 1PH Pad Mount Transformer

Transformer Type: Pad Mounted, Compartmental-Type
Transformer Configuration: Liquid Filled Pad Mounted
Transformer Feed Type: Loop Feed
Polarity: Subtractive
Phase: Single Phase
Capacity: 50 KVA
Primary Voltage: 24940Y/14400
Primary Voltage Class: 25 KV
Primary Phasor: Grounded Wye
Primary BIL: 125 KV
Secondary Voltage: 12470Y/7200
Secondary Voltage Class: 15 KV
Secondary Phasor: Grounded Wye
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Cooling Class: ONAN; Self-Cooled
Forced Air (Fans): None
Tap Changer: 5-Position Tap Changer
Tap Qty: (0) FCAN Above Taps, (4) FCBN Below Taps
Tap %: 4.17%
Impedance: 1.0-4.5%
Primary Connection Type: Dead Front
Primary Termination: Standoff Well Bushings w/ Removable Studs, 200A Load Break

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 12.28
Complies with ANSI / IEEE C57 12.38
Complies with ANSI / IEEE C57.12.70
Hinged Front Compartment Doors, Pad Lockable
Non-PCB Insulating Fluid
Complies with ASTM D3487
Penta-head Entry Assembly
Tamper Proof Housing

Efficiency: 99.20%
No Load Loss (in watts)*: +/- 176W
Load Loss (in watts)*: +/- 650W
Total Load Loss (in watts)*: +/- 826W

Elbows w/ Inserts
Primary Connection Qty: (2) Primary Connections w/ (2) Standoff Brackets for Parked Elbows
Primary Grounding Provisions: (1) Grounding lug, accepts #2 copper
Primary Surge Arrestors: Included, (2) High Voltage Elbow Surge Arrestors,
Primary Surge Arrestor Voltage Rating: 26 kV Class Elbow Arrestor
Primary Surge Arrestor MCOV Rating: 15 kVrms
Primary Over Current Protection (OCP): Bayonet Expulsion Fuses
Primary Over Current Protection Method: Fused, Oil-Immersed
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ External Drip Shield
Secondary Connection Type: Live Front
Secondary Termination: Standoff Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
Secondary Connection Qty: (2)
Secondary Grounding Provisions: (1) Grounding lug, accepts #2 copper
Load Break Switch: 4-Position Load Break Switch
Load Break Switch Qty: (1)
Efficiency: Meet DOE 2016 Standard
Insulation Fluid: Mineral Oil Insulating Fluid - Non-PCB Fluid
Fluid Capacity*: 61.11 Gallons
Liquid Level Indicator: Analog Gauge
Temperature Indicator: Analog Gauge
Pressure/Vacuum Indicator: Analog Gauge
Pressure Relief Device: Included, Automatic Action
Fill Valve: Included
Drain Valve: Included, w/ Sampler
Surge Arresters: High Elbow Surge Arresters on the Primary Side
Front: Dead Front Primary, Live Front Secondary
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 55 dBA
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level
Tank Material: Coated Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Housing Type: Compartmental Cabinet w/ Doors, HV Compartment Left, LV Compartment Right
Paint Type: Munsell Green Paint 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*: 34.25"-W x 37.4"-D x 25.2"-H
Weight*: 1432.98 Lbs
*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-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 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 50 kVA, the industrial transformer features a primary voltage of single-phase 24940Y/14400 Grounded Wye and a secondary voltage of single-phase 12470Y/7200 Grounded Wye. 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 copper windings, this transformer consists of one coil and two core loops.

The MT-PML-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 is air cooled and does not have fans or mounting provision 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-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 features mineral oil insulation fluid. We offer transformers with biodegradable or FR-3 oil 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 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 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 Break Switch: The MT-PML-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 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-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 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-R7-1P-GMF-50KVA-GMR-LT-DF-X6-BM-CZ-2B4-M2 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)


Non PCB
NOTICE
WARNING
ADVERTENCIA

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