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MT-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1

50 KVA Overhead Distribution Transformer, Pole Mount, 12470Y/7200 Grounded Wye Pri., 120/240V Sec., Mineral Oil, Copper, ONAN

Product ID: 311252



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-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 Pole Mount Overhead Transformer
Transformer Type: Overhead Distribution Transformer, Conventional Type
Transformer Configuration: Liquid Filled Pole Mounted
Transformer Polarity Type: Subtractive
Phase: Single Phase
Capacity: 50 KVA
Primary Voltage: 12470GrdY/7200
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 kV
Secondary Voltage: 120/240V (L-N-L)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Dual Winding Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Forced Air (Fans): None
Cooling Class: ONAN; Self-Cooled
Tap Changer: 5-Position Tap Changer w/ External Operating Handle
Tap Qty: N/A
Tap %: N/A
Tap Changer Switch Rating: N/A
Tap Changer Switch Location: N/A
Impedance: 1.0-4.5% Typical
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushing

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Meets/Exceeds CSA Efficiency Ratings
Complies with ANSI / IEEE C57 12.00
Complies with ANSI / IEEE C57 12.20
Complies with ANSI / IEEE C57 12.30
Complies with ANSI / IEEE C57 12.31
Complies with ANSI / IEEE C57 12.35
Complies with ANSI / IEEE C57.12.70
Complies with ANSI / IEEE C62.11
Complies with ANSI / IEEE C62.22
Complies with ANSI / IEEE C2
Complies with ANSI / IEEE C37.47
Complies with ANSI Z535.4
Complies with ASTM D3487
Complies with ASTM D6871
Complies with 10 CFR Part 431
Complies with CSA C2.2:06
Complies with CAN / CSA C50
Complies with CAN / CSA C233.1-87
Complies with CAN / CSA C802.1-13

Features:
Non-PCB Insulating Fluid
Lifting Lugs Included
Corrosion Resistant Cover Band

Primary Connection Qty: (1)

Primary Lightning Arrestors: N/A

Primary Lightning Mounting Provision: Mounting Provisions for Installing Lightning Arrestor on H1 & H2 Primary Terminals

Primary Lightning Arrestors Voltage Rating: N/A

Primary Lightning Arrestors MCOV Rating: N/A

Secondary Connection Type: Live Bushing Lug

Secondary Connections: Threaded Stud Terminals

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

Terminals: Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections

Grounding Provisions: (1) Lug w/ Grounding Strap, Tank Grounding Lug

Transformer Protection: N/A

Load Break Switch: N/A

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 Capacity*: 15.16 Gallons

Fluid Weight*: 136.68 lb

Liquid Level Indicator: Internal In-Tank Oil Level Line

Temperature Indicator: N/A

Pressure/Vacuum Indicator: N/A

Pressure Relief Device: Included, Automatic Action

Fault Indicator: N/A

Oil Level Marking: Internal

Fill Valve: N/A (Tank Filled via Removable Lid)

Drain Valve: 1/2" NPT Port w/ Removable Bolt

Winding Material: Copper

Ambient Temperature Rating: 40°C

Ambient Operating Temperature Range: -40°C to +40°C (-50°F to +104°F)

Sound Level: 48 dBA

Elevation Level: N/A

Core Material: Grain Oriented Steel

Tank Material: Coated Steel

Housing Material: Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover

Hardware Material: Stainless Steel Hardware

Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating

Finish Color: White

Mounting: Double Hanger Bracket

Mounting: Pole Mount via Hangar Brackets

Lifting Lugs: Included

Dimensions*: 24.8"-W x 26.77"-D x 40.16"-H

Tank Diameter*: 20.47" OD

Dry Weight*: 374.78 lb

Total Weight (Liquid Filled)*: 605 lb

*Please note that numbers are approximate and subject to change

Efficiency: 98.90%

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

Load Losses Based on 85°C Reference Temp.

No Load Loss (in watts): +/- 176W

Full Load Loss (in watts): +/- 650W

Total Load Loss (in watts): +/- 826W

Note: Losses offered are typical only, not guaranteed

Labeling:

Externally Stencilled (Painted) KVA Rating

Externally Stencilled (Painted) Voltage Rating

External Non-PCB Label

External Barcode Label

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: 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

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The MT-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 Overhead Distribution Pole Mounted Transformer from Larson Electronics offers powerful, reliable and efficient power distribution in 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. This power distribution system is designed for overhead, pole mount installations and use.

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 12470Y/7200 Grounded Wye and a secondary voltage of single-phase 120/240V (L-L-N). This transformer connects to a three phase electrical grid system to provide single phase low voltage power for

indoor distribution. This pole mount transformer features porcelain high-voltage, single bushing on the primary side and three bushings on the secondary side. Equipped with Copper windings and a grain oriented steel core, this overhead distribution transformer consists of one coil and two core loops. Tin plated terminals on the primary and secondary side accepts copper or aluminum connections.

The MT-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 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 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-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 features mineral oil insulation fluid. Internal marking is available for proper oil level monitoring. We offer transformers with FR-3 oil fluid, if needed.

Gauges: There are no gauges on this transformer. We can add liquid level, temperature and pressure/vacuum gauges at an additional cost. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types.

Pressure Relief Device: An automatic pressure relief device is included with this transformer.

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 is not equipped with lightning arresters. Mounting provisions for installing customer provided lightning arrestor on the H1 and H2 primary terminal are included for installing arresters in-field.

Valves: The MT-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 is not equipped with fill or dtrain valves. The transformer can be filled via removing the top lid. A drain port w/ bolt plug is equipped.

Protection Fuses: This transformer does not contain fuses or circuit breakers. 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 and outdoor applications. Equipped with hangar brackets and lifting lugs, this overhead power distribution system can be mounted on poles.

Benefits: The MT-UPM-R7-1P-GMR-50KVA-SZ-AB-A6-BM-CZ-Z-M1 heavy-duty 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.

We offer completely self protected (CSP) pole mount overhead transformers at an additional cost.

Applications: General purposes, industrial sites, electrical rooms, public locations, 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)