Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MT-UPM-R7-1P-GMA-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M1

75 KVA Overhead Distribution Transformer, Pole Mount, 34500Y/19900 Grounded Wye Primary, 120/240V Secondary, Mineral Oil, Copper, ONAN, Tap Changer, Light Grey

Product ID: 326657



Image: MT-UPM-R7-1P-GMA-75KVA-SLZ-AE-C6-BM-CZ-2PZ-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-UPM-R7-1P-GMA-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M1 Pole Mount Overhead Transformer

Transformer Type: Overhead Distribution Transformer, Conventional Type
Transformer Configuration: Liquid Filled Pole Mounted
Transformer Polarity Type: Additive
Transformer Duty: Continuous
Phase: Single Phase
Capacity: 75 KVA
Primary Voltage: 34500Y/19900
Primary Voltage Switch: N/A
Primary Voltage Class: 35 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 150 kV
Secondary Voltage: 120/240V
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
Forced Air (Fans): None
Cooling Class: ONAN; Self-Cooled
Tap Changer: 5-Position Tap Changer w/ External Operating Plastic Handle, Copper Terminal
Tap Qty: (1) FCAN Above, (3) FCBN Below

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.20
Complies with ANSI / IEEE C57.12.90
Complies with ANSI / IEEE #C57.12.28
Complies with ANSI / IEEE #C57.12.31
Complies with ANSI / IEEE C57.12.70
Complies with ASTM D3487
UL, and ISO 9000 Certified
Non-PCB Insulating Fluid
(2) Lifting Lugs Included
Electrical Hazard Label
3 Years Warranty
30 Years Service Life
Efficiency: 99.00%
Based on transformer operating at 50% of nameplate base kVA.
Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): +/- 225W
Full Load Loss (in watts): +/- 750W
Total Load Loss (in watts): +/- 975W

Note: *Losses offered are typical only, not guaranteed*

Tap %: 2.5%
Tap Changer Switch Location: Middle of Tank Body, Left of Mounting Provisions
Tap Changer Switch Rating: 25 kV Class, 50 kV Applied Voltage (At 60 Hz, 1 min.), 100A Cont. Rated, 150 kV BIL
Impedance: 1.0-4.5% Typical, ≤2.5% Target
Excitation Current: ≤2.5%
Overload Capacity: ≤30%
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushing
Primary Connection Qty: (1)
Primary Termination Ratings: 35 kV Low Frequency Voltage (Dry, 1 min.), 30 kV Low Frequency Voltage (Wet, 10 sec., 10.5-inch Creepage Distance
Primary Lightning Arrestors: Included, (1) Polymer Heavy Duty, 10 kV Rated, 10 kA Discharge Current, w/ Built-in Disconnect Switch and Protective Cover
Primary Lightning Mounting Provision: Included
Primary Lightning Arrestors Voltage Rating: 9 kV
Primary Lightning Arrestors MCOV Rating: 7.65 kV
Primary Overcurrent Protection (OCP): Thermal Magnetic Circuit Breaker, 15 kV, 11 kA Breaking Capacity, 30% Overload Capacity
Primary Conductor Size Range: #10 to 2
Secondary Connection Type: Live Bushing Lug
Secondary Connections: Porcelain Bushing
Secondary Connection Qty: (3)
Secondary Termination Ratings: 10 kV Low Frequency Voltage (Dry, 1 min.), 6 kV Low Frequency Voltage (Wet, 10 sec.)
Secondary Neutral Connection: Secondary X2 Neutral Grounded to Tank via 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung & Copper Ground Strap
Secondary Terminals Protective Box: Included, w/ Semi-Die-Cut knockout with two points, 2.5" Right Side Knockout, 2.5" Left Side knockout, 1.29" Base knockout, ANSI 70 Light Grey
Secondary Lightning Arrestors: Included, (1) Polymer Light Duty, 240V Rated
Secondary Lightning Arrestors Voltage Rating: 1 kV
Secondary Lightning Arrestors MCOV Rating: 1 kV
Secondary Overcurrent Protection (OCP): Thermal Magnetic Circuit Breaker, 0.6 kV, 11 kA Breaking Capacity, 30% Overload Capacity
Secondary Conductor Size Range: #6 to 4/0, 0.81 Max. Opening
Terminals: Tin Plated Bronze Primary and Secondary - Accepts Copper or Aluminum Connections
Grounding Provisions: (2) Screws
Transformer Protection: N/A
Load Break Switch: 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, Type II, Non-PCB Fluid
Fluid Capacity*: 21.51 Gallons
Fluid Weight*: 194 lbs
Liquid Level Indicator: Internal In-Tank Oil Level Line
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included, Automatic Action
Overload Indicator: Included, Warning Light
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, Uniformly Insulated
Ambient Temperature Rating: 40°C
Sound Level: 48 dBA
Elevation Level: 3,300ft Above Sea Level
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Housing Material: Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover

Factory Tests
Heat-up Test
Dielectric Impulse Voltage Test
External Short-circuit Behavior
Switch Type Tests
Measurement of Winding Resistance
Measurement of Transformer Ratio and Phase Angle
Measurement of Insulation Resistance
No Load Loss Test
Load Loss test
Excitation Current Test
Dielectric Strength Test
Sealing Test

Hardware Material: Stainless Steel Hardware
Paint Type: A Polyurethane Powder-Coated Paint Will Be Electrostatically Applied And Oven-Cured
Paint Thickness: ≥ 85 µm
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Double Hanger Bracket, Stainless Steel
Mounting: Pole Mount via Hanger Brackets
Centers to Pole Mounting Brackets: 11.26 inches
Lifting Lugs: Included
Dimensions*: 26.77"-W x 28.35"-D x 47.24"-H
Tank Diameter*: 21.66" OD
Dry Weight*: 396.83 lbs
Total Weight (Liquid Filled)*: 875 lbs
*Please note that numbers are approximate and subject to change

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M2 from Larson Electronics is an Overhead Distribution Pole Mounted Transformer that offers powerful, reliable, and efficient power distribution in 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. 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 75 kVA, the industrial transformer features a primary voltage of 34500Y/19900 Grounded Wye and a secondary voltage of single-phase 120/240V (L-N-L). 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, dual bushings 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 sides accept copper or aluminum connections.

The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M2 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 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-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M2 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 equipped with a lightning arrester on the H1 primary terminal.

Valves: The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M2 is not equipped with fill or drain 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, 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 outdoor applications. Equipped with hanger brackets and lifting lugs, this overhead power distribution system can be mounted on poles.

Benefits: The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-C6-BM-CZ-2PZ-M2 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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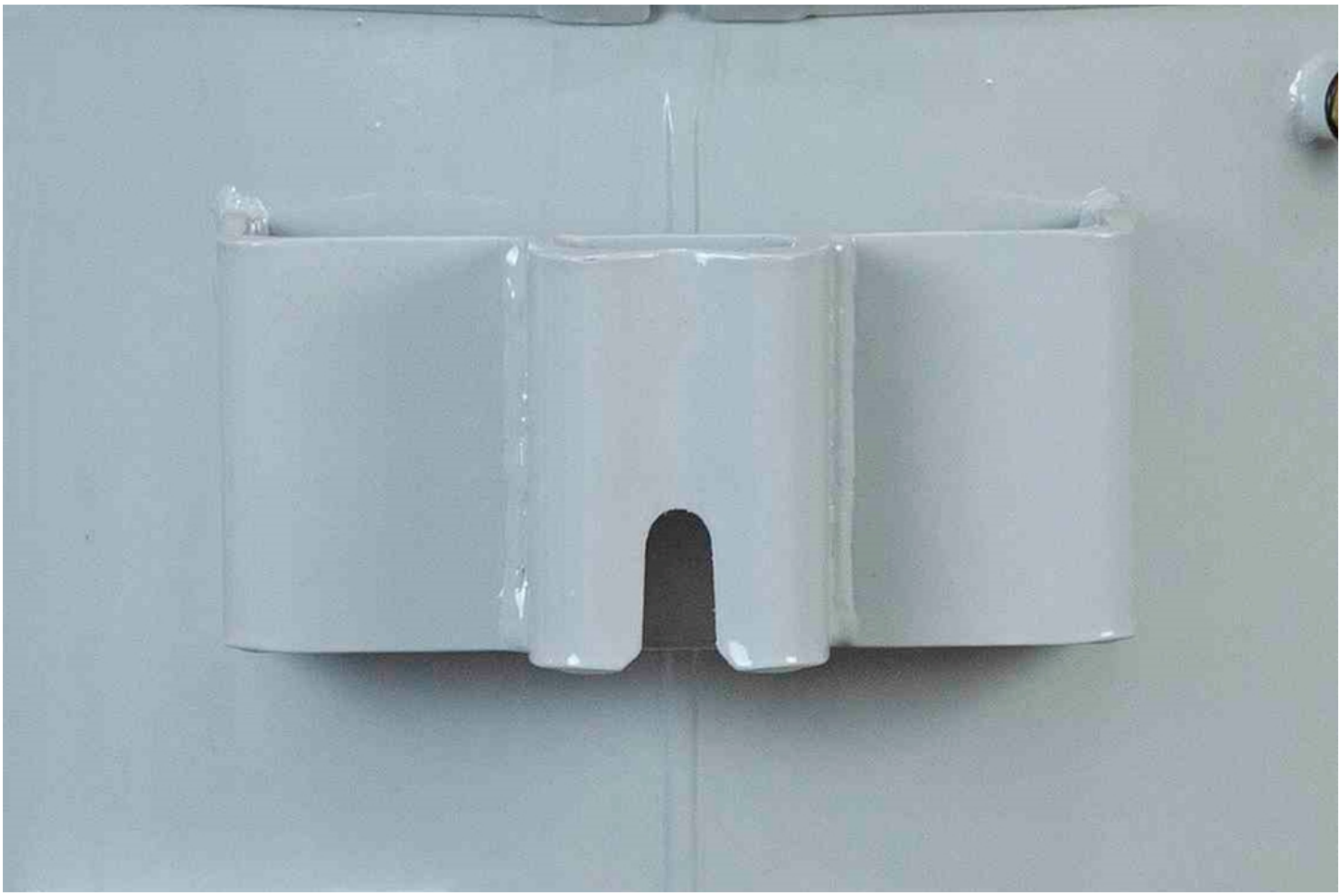
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Frequently Asked Questions (FAQ)

There are no Faqs