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-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1

75 KVA Overhead Distribution Transformer, Pole Mount, 12470Y/7200V Grounded Wye Primary, 120/240V Secondary, Mineral Oil, Copper Windings, ONAN, 5-Position ±2.5% Tap Changer

Product ID: 341737

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



Image: MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-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-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1 Pole Mount Overhead Transformer

Transformer Type: Overhead Distribution Transformer, Conventional Type
Transformer Configuration: Liquid Filled Pole Mounted
Transformer Polarity Type: Additive
Phase: Single Phase
Capacity: 75 KVA
Primary Voltage: 12470Y/7200 VAC
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 kV
Secondary Voltage: 120/240V
Secondary Voltage Class: 1.2 kV Class

Secondary Phasor: Dual Windings, Single Phase (Interlaced Windings)

Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Forced Air (Fans): None

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 C57.12.28
Complies with ANSI / IEEE #C57.12.31
Complies with ANSI / IEEE C57.12.70
Complies with ANSI / IEEE C57.12.90
Complies with ASTM D3487
Non-PCB Insulating Fluid
Lifting Lugs Included

Efficiency: 98.70%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): +/- 113W
Full Load Loss (in watts): +/- 413W
Total Load Loss (in watts): +/- 526W

Cooling Class: ONAN; Self-Cooled
Tap Changer: 5-Position De-Energized Tap Changer (+2.5%, Nominal, -2.5%, -5%, -7.5%) ***Note:*** *Losses offered are typical only, not guaranteed*
Tap Qty: +2.5%, Nominal, -2.5%, -5%, -7.5%
Tap %: ±2.5% (5-Position)
Impedance: ≤3.0%
Primary Connection Type: Live Bushing Lug
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 Connection Qty: (1)
Primary Lightning Arrestors: Included, (1) Polymer Heavy Duty
Primary Lightning Mounting Provision: Included
Primary Lightning Arrestors Voltage Rating: 9 kV
Primary Lightning Arrestors MCOV Rating: 7.65 kV
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
Terminals: Tin Plated 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 (CFR Title 10 Chapter II Part 431), 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*: 11 Gallons
Fluid Weight*: 99.21 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
Fault Indicator: Included, IFD
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
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
Hardware Material: Stainless Steel Hardware
Paint Type: A Polyurethane Powder-Coated Paint Will Be Electrostatically Applied And Oven-Cured
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Double Hanger Bracket
Mounting: Pole Mount via Hanger Brackets
Centers to Pole Mounting Brackets: Included
Lifting Lugs: 11.26 inches
Dimensions*: 21.65"-W x 24.8"-D x 27"-H
Tank Diameter*: 17.72" OD
Dry Weight*: 198.41 lbs
Total Weight (Liquid Filled)*: 470 lbs

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

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

*Please note that numbers are approximate and subject to change

The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-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 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 12470Y/7200V Grounded Wye primary voltage and a single-phase 120/240V (L-N-L) secondary voltage. This transformer connects to a grounded wye medium-voltage distribution system to provide single-phase low-voltage power for residential, commercial and industrial distribution applications. This pole mount transformer features a porcelain high-voltage, single bushing on the primary side and three porcelain bushings on the secondary side. Equipped with copper windings, a grain-oriented steel core, 95 kV primary BIL, 30 kV secondary BIL, and ≤3% impedance, this overhead distribution transformer provides dependable voltage regulation and efficient power delivery. Tin plated terminals on the primary and secondary sides accept copper or aluminum connections.

The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1 is ONAN (Oil Natural Air Natural) self-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 service life. The combination of low temperature rise and efficient operation makes this transformer suitable for utility distribution systems, commercial facilities, industrial plants, underground vaults and other outdoor power distribution applications.

Insulation Fluid: The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-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 equipped with one lightning arrester installed on the primary bushing to provide protection against transient overvoltages caused by lightning and switching surges.

Valves: The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1 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 coated steel enclosure makes the unit suitable for outdoor applications. Equipped with double hanger brackets and lifting lugs, this overhead distribution transformer is designed for pole-mounted installations.

Benefits: The MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-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: Electric utility distribution, commercial facilities, industrial plants, manufacturing facilities, processing plants, mining operations, municipal infrastructure, military installations, offshore facilities, renewable energy projects, public utilities, electrical distribution systems and general outdoor power distribution applications.

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.

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

Frequently Asked Questions (FAQ)

There are no Faqs

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



Image: MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1

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



Image: MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1

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

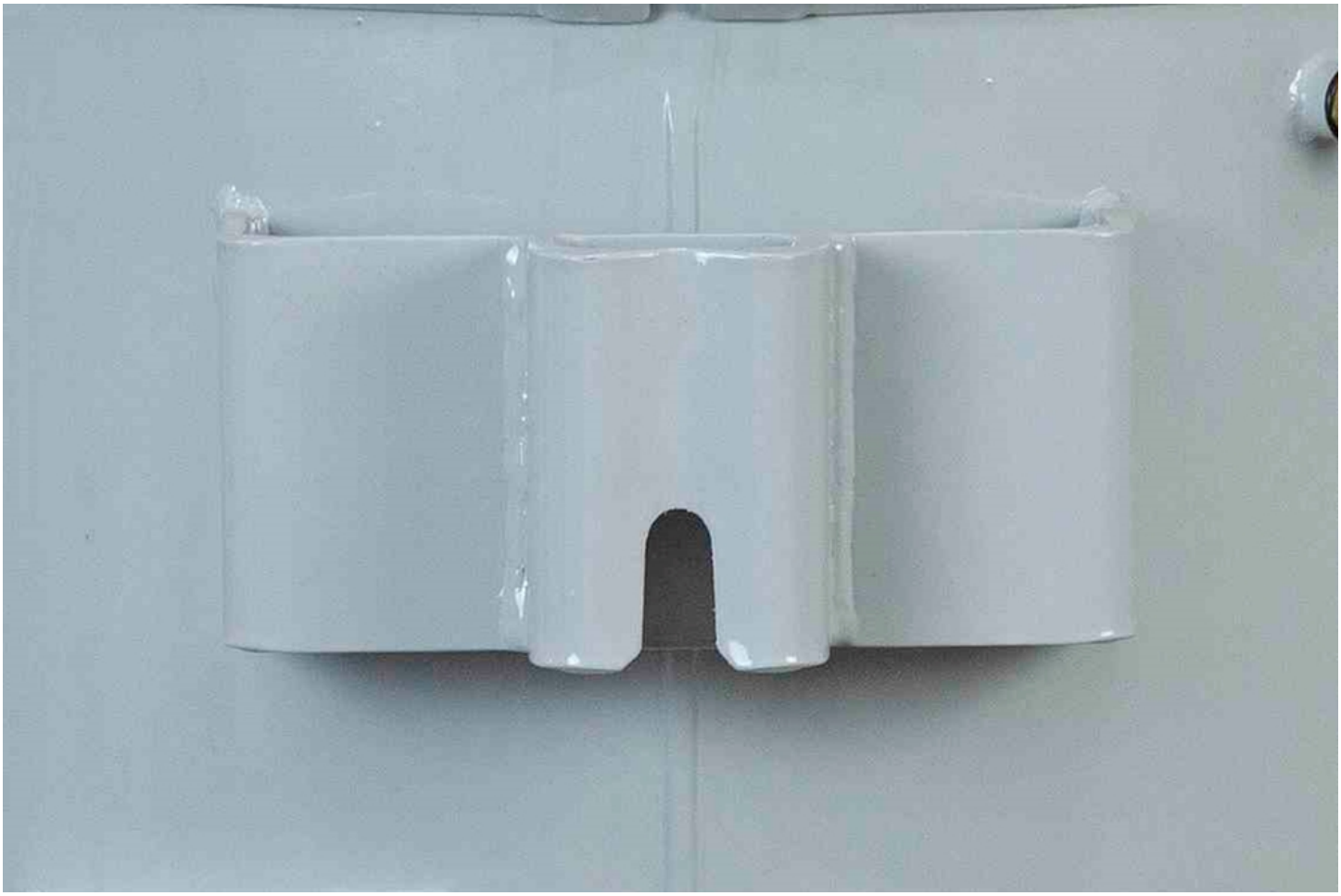


Image: MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1

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



Image: MT-UPM-R7-1P-GMR-75KVA-SLZ-AE-A6-BM-CZ-CZZ-M1

Export Control Classification Number (ECCN): EAR99

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

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/341737.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/341737.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/341737.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/341737.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/341737.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/341737.JPG)
- **Video1**(https://www.youtube.com/watch?v=QJQ6cjMTwD8)
- **Video2**(https://www.youtube.com/watch?v=oZDa7R7XEZ0)
- **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)