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MT-UPM-R7-1P-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-M1

200 KVA Overhead Distribution Transformer, Pole Mount, 34500Y/19920 Grounded Wye Primary, 120/240V Secondary, Mineral Oil, Copper, ONAN, Tap Changer, NEMA 4X

Product ID: 338070

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



Image: MT-UPM-R7-1P-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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: 200 KVA
Rated Primary Voltage: 34500Y/19920
Rated Maximum Primary System Voltage: 20.9 kV
Rated Minimum Primary System Voltage: 18.9 kV
Primary Voltage Class: 35 kV Class
Primary Current: 10 A
Primary Phasor: Grounded Wye
Primary BIL: 200 kV
Secondary Voltage: 120/240V (L-N-L)
Secondary Voltage Class: 1.2 kV Class

Secondary Phasor: Dual Windings, Single Phase

Secondary Line BIL: 30 KV
Secondary Neutral BIL: 30 KV
Frequency: 60 Hz

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 C57.12.80
Complies with ASTM D3487
Non-PCB Insulating Fluid
Lifting Lugs Included
NRTL Listing/Certification

Efficiency: 99.20%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.

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 De-energized Tap Changer w/ External Operating Handle
Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%

Tap Changer Switch Location: Middle of Tank Body, Left of Mounting Provisions

Impedance: 1.5-6.0% Typical

Rated Harmonic Current Content in Per Unit of Base: ≤5% per IEEE 519

Rated Short Circuit Through Fault Current Withstand: 40kA/1 second
Primary Connection Type: Live Bushing Lug, 1x1C Conductor Per Phase (Copper), # 4/0 Cable Size
Primary Termination: Porcelain High Voltage Bushing, Side Mounted, w/ air terminal chamber, w/ nonmagnetic aluminum removable gland plate
Primary Connection Qty: (1)
Primary Lightning Arrestors: N/A
Primary Lightning Mounting Provision: Mounting Provisions for Installing Lightning Arresters on H1 Primary Terminal
Primary Lightning Arrestors Voltage Rating: N/A
Primary Lightning Arrestors MCOV Rating: N/A
Secondary Connection Type: Live Bushing Lug, 3x1C Conductor Per Phase (Copper), 750 kcmil Cable Size
Secondary Connections: Porcelain Bushing w/ NEMA 4-Hole Pads, Side Mounted in ATC
Secondary Connection Qty: (3)
Secondary Neutral Bushing CT: Included
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) Tank Grounding Pads, diagonally opposite
Auxiliary Power Supply Voltage: 125 VDC
Control Cabinet: Included, NEMA 4X, located on LV side, control wiring #12 AWG power, #14 AWG min. Stranded Copper, 600V, w/ terminal blocks 20% spare positions; bottom cable entry
Wire Markers: Sleeve type Wire Markers
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*: 61.11 Gallons
Fluid Weight*: 551.15 lbs
Liquid Level: Indicator: Included, analog gauge, w/ contacts
Temperature Indicator: Included, top liquid indicator, w/ contacts
Winding Temperature Indicator: Included, w/ contacts
Pressure/Vacuum Indicator: Included, w/ contacts
Pressure Relief Device: Included, Automatic Action
Sudden Pressure Relay: Included, w/ lockout relay for trip and alarm
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

No Load Loss (in watts): +/- 683W
Full Load Loss (in watts): +/- 2,763W
Total Load Loss (in watts): +/- 3,445W

Note: *Losses offered are guaranteed*

Factory Tests:

ANSI Routine Test
Transformer Oil Quality Check
Leak Test 6 hours

Design Tests:

Audible Sound Level Test
Temperature Rise Test
Chopped Wave Impulse Test
Insulation Power Factor Test

Ambient Temperature Rating: 40°C
Sound Level: 55 dBA
Elevation Level: 3,300ft Above Sea Level
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Tank Type: Welded, full vacuum filling, hermetically sealed with nitrogen blanket.
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
Enclosure Rating: NEMA 4X
Finish Color: ANSI 70 Light Grey
Mounting: Double Hanger Bracket
Mounting: Pole Mount via Hanger Brackets
Nameplate: Included,IEEE Stainless Steel
Lifting Lugs: Included
Dimensions*: 37.8"-W x 49.21"-D x 57.48"-H
Tank Diameter*: 25.98" OD
Dry Weight*: 1256.61 lbs
Total Weight (Liquid Filled)*: 1930 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
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The MT-UPM-R7-1P-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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 200 kVA, the industrial transformer features a primary voltage of 34500Y/19920 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, 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 accept copper or aluminum connections.

The MT-UPM-R7-1P-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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 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-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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 primary terminal are included for installing arresters in-field.

Valves: The MT-UPM-R7-1P-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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 enclosure makes the unit suitable for 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-GMA-200KVA-SLZ-AA-A6-BM-CZ-1ZZ-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)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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