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MT-UPM-R7-1P-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-M1

167KVA 1-Ph Pole-Mount Station AC Service Transformer, 34500Y/19920V Grounded Wye Primary, 240/120V Secondary, Mineral Oil Fluid, Aluminum, Tap Changer

Product ID: 305574

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-UPM-R7-1P-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-M1 Pole-Mounted Station AC Service Transformer
Transformer Type: Station AC Service Transformer, Conventional Type
Transformer Configuration: Liquid Filled
Transformer Polarity Type: Subtractive
Phase: Single Phase
Capacity: 167 KVA
Primary Voltage: 34500Y/19920
Primary Phasor: Grounded Wye
Primary Voltage Class: 38 KV
Primary BIL: 150 KV
Secondary Voltage: 240/120V (L-L-N)
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
Cooling Class: ONAN; Self-Cooled
Tap Changer: 5-Position Tap Changer w/ External Operating Handle
Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%
Tap Changer Switch Location: Side of Tank Body
Impedance: 1.0-5.0% Typical
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushing, NEMA 4-Pad
Primary Connection Qty: (1)
Primary Surge Arrestors: Included, (1) High Voltage Elbow Surge Arrestors
Primary Surge Arrestor Voltage Rating: 36 kV Class
Primary Surge Arrestor MCOV Rating: 21 kVrms
Secondary Connection Type: Live Bushing Lug
Secondary Connections: Live Bushing Lugs
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 (Stainless steal grounding pads)
Seismic: Moderate (applies for all equipment inside substation including transformers)
Enclosure Rating: NEMA 3R
Efficiency Standard(s): Meets DOE 2016 Standards, Meets ANSI/IEEE Standards
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)

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
Lifting Lugs Included
Non-PCB Insulating Fluid
Efficiency: 99.40%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): +/- 320W
Full Load Loss (in watts): +/- 1,600W

Note: Losses offered are typical only, not guaranteed

Insulation Fluid: Mineral Oil - Non-PCB (Stated On The Nameplate)
Fluid Capacity*: 22.98 Gallons
Fluid Weight*: 207.23 lb
Breather For Conservator: Included
Temperature Indicator: N/A
Annunciator: Included
Pressure Relief Device: Included, Automatic Action
Control Cabinet: Included, NEMA 3R
Fill Valve: 1/2" NPT Port w/ Removable Bolt
Drain Valve: 1/2" NPT Port w/ Removable Bolt
Winding Material: Aluminum
Ambient Temperature Rating: -15°C to 45°C
Sound Level: 51 dBA
Wind Speed Rating: 105 mph
Snow Load: 5 PSF
Ice Load: 0.25"
Elevation Level: 4,274 ft 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
Nameplate Material: Stainless Steel
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Pole Mounted
Lifting Lugs: Included
Dimensions*: 30.71"-W x 31.89"-D x 47.24"-H
Tank Diameter*: 24" OD
Dry Weight*: 485.01 lbs
Total Weight (Liquid Filled)*: 968 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-UPM-R7-1P-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-M1 Pole-Mount Station AC Service 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 167 kVA, the industrial transformer features a primary voltage of 34500Y/19920V Grounded Wye and a secondary voltage of single-phase 240/120V (L-L-N). This transformer connects to a three phase electrical grid system to provide single phase low voltage power for indoor distribution. This voltage transformer features porcelain high-voltage, single bushings on the primary side and three bushings on the secondary side. Equipped with aluminum windings and a grain oriented steel core, this voltage transformer consists of one coil and two core loops

The MT-UPM-R7-1P-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-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-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-M1 features mineral oil insulation fluid. Internal marking is available for proper oil level monitoring. We offer transformers with biodegradable or FR-3 oil fluids, 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 primary bushing.
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 is pole-mounted and makes the unit suitable for outdoor applications
Benefits: The MT-UPM-R7-1P-GMA-167KVA-SLZ-AE-A6-BM-AZ-2ZZ-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.
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)

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Product ID: 305574

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**