Larson Electronics LLC
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MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-M1

25 KVA Overhead Distribution Transformer, Pole Mount, 4160Y/2400V Grounded Wye Primary, 120/240V Secondary, Mineral Oil, Copper Windings, ONAN, 5-Position ±2.5% Tap Changer, Light Grey

Product ID: 341731

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



Image: MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-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-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-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: 25 KVA
Primary Voltage: 4160Y/2400 VAC
Primary Voltage Switch: N/A
Primary Voltage Class: 5 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 60 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

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
5 Years Warranty
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): +/- 100W

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 (+2.5%, Nominal, -2.5%, -5%, -7.5%)
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: Porcelain High Voltage Bushing
Primary Connection Qty: (2)
Primary Termination Ratings: 21 kV Low Frequency Voltage (Dry, 1 min.), 20 kV Low Frequency Voltage (Wet, 10 sec., 9-inch Creepage Distance
Primary Lightning Arrestors: Included, (2) Polymer Heavy Duty
Primary Lightning Mounting Provision: Included
Primary Lightning Arrestors Voltage Rating: 6 kV
Primary Lightning Arrestors MCOV Rating: 5.1 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 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, 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: 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, Uniform 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
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: 11.26 inches
Lifting Lugs: Included
Dimensions*: 21.65"-W x 24.8"-D x 40.16"-H
Tank Diameter*: 17.72" OD

Full Load Loss (in watts): +/- 300W
Total Load Loss (in watts): +/- 400W

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

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

Dry Weight*: 198.41 lbs
Total Weight (Liquid Filled)*: 470 lbs
*Please note that numbers are approximate and subject to change

Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-M1 Overhead Distribution Pole Mounted Transformer from Larson Electronics offers powerful, reliable and efficient power distribution for outdoor utility and commercial applications. Designed for overhead pole-mounted installations, this transformer provides dependable performance, low operating costs and long service life for electric power distribution systems.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: With a transformer rating of 25 kVA, the industrial transformer features a 4160Y/2400V grounded wye primary and a 120/240V single-phase secondary (L-N-L) operating at 60 Hz. The transformer is designed for connection to a grounded wye medium-voltage distribution system to provide single-phase low-voltage power for residential, commercial and industrial loads. This pole-mounted transformer is equipped with two porcelain high-voltage bushings on the primary side and three porcelain low-voltage bushings on the secondary side. Featuring copper windings, a grain-oriented steel core, 60 kV primary BIL, 30 kV secondary BIL, and ≤3% impedance, the transformer delivers reliable voltage regulation and efficient power distribution. Tin-plated primary and secondary terminals accept either copper or aluminum conductors.

The MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-M1 utilizes ONAN (Oil Natural Air Natural) self-cooling and does not require cooling fans or fan mounting provisions. Designed with a 65°C temperature rise, the transformer minimizes heat generation while improving efficiency, reliability and service life. Its low-loss design makes it suitable for outdoor utility distribution networks, commercial facilities, industrial plants and other continuous-duty applications.

Insulation Fluid: The MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-M1 is filled with non-PCB mineral oil for dependable insulation and cooling performance. Internal oil level marking is provided for proper fluid monitoring. Alternative insulating fluids, including FR-3 biodegradable fluid, are available upon request.

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 transformer is equipped with (2) lightning arresters installed on the H1 and H2 primary terminals to provide protection against transient overvoltages caused by lightning and switching surges.

Valves: The MT-UPM-R7-1P-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-M1 is not equipped with a fill valve. The transformer is factory-filled through the removable top cover and includes a drain port with removable bolt plug for servicing.

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-GNF-25KVA-SLZ-BJ-A6-BM-CZ-SZZ-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: Utility power distribution, electrical distribution systems, commercial facilities, industrial plants, manufacturing facilities, processing plants, municipal infrastructure, renewable energy projects, mining operations, military installations, offshore facilities, public infrastructure 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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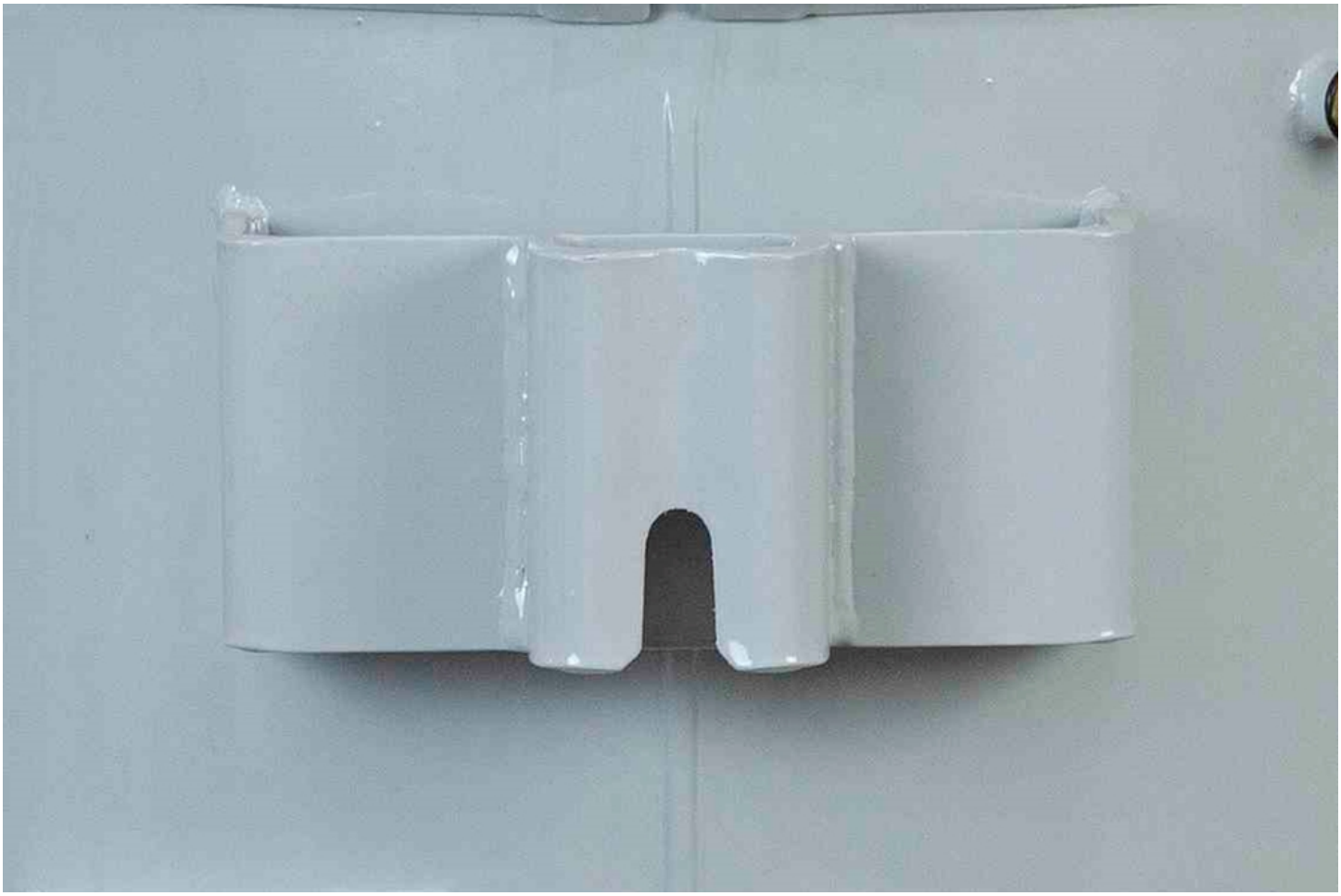


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- **Video1**(https://www.youtube.com/watch?v=QJQ6cjMTwD8)
- **Video2**(https://www.youtube.com/watch?v=oZDa7R7XEZ0)
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