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MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4

75 KVA Pole Mount Distribution Transformer - 2400/4160Y Grounded Wye Primary, 120/240V Secondary - Type II Mineral Oil/ONAN

Product ID: 303960



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-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 Pole Mount Overhead Transformer

Phase: Single Phase
Capacity: 75 KVA
Primary Voltage: 2400/4160GrdY Grounded Wye (2 Wire)
Primary BIL: 60 kV
Secondary Voltage: 120/240V (L-L-N)
Frequency: 60 Hz
Temperature Rise: 65°C
Forced Air (Fans): None
Tap Changer: - Provide four 2-1/2 percent full capacity taps, 2 above and 2 below rated primary voltage. Tap changer has external handle
Primary Insulation: Porcelain High Voltage Bushings - Dual Primary Bushings
Secondary Insulation: (3) Bushings
Well Bushings w/ Inserts: -
Efficiency: @ 50% Load: 99.19%
Insulation Fluid: Mineral Oil - Non PCB Fluid - Type II
Fluid Capacity: -
Oil Level Marking: Internal
Cooling Class: ONAN
Liquid Level Gauge: Open type fused cutouts rated 100 amperes and 16k amperes symmetrical
Temperature Gauge: -
Pressure/Vacuum Gauge: -
Pressure Relief Device: Automatic
Fill Valve: Included
Drain Valve w/ Sampler: -
Surge Arrestors: IEEE C62.11, metal oxide, polymeric-housed, surge arresters arranged for equipment mounting. RMS voltage rating is 10 KV. Arresters is distribution class. Surge arrester is provided on the line side of service transformer.

Ratings

Conforms to ANSI / IEEE Standard C57.12.20
Lifting Lugs Included

Surge Arrestor Mounting Provision: Mounting Provisions for Installing Lightning Arrestor on H2 Primary Terminal
Protection Fuses: -
Load Break Switch: -
Front: -
Feed: -
No Load Loss: 187.5W Complies with IEEE C57.12.00 and IEEE C57.12.90
Full Load Loss: 965W Complies with IEEE C57.12.00 and IEEE C57.12.90
Efficiency @ 50% Load: 99.19%
Impedance (approx): 1.5% minimum
Winding Material: Copper
Core Material: Grain Oriented Steel
Terminals: Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections
Ambient Temperature Rating: -
Housing: Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover
Paint Type: Munsell 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Pole Mount via Hangar Brackets
Lifting Lugs: Included
Grounding: Tank Grounding Provisions
Dimensions: 33" x 24" x 51"
Weight: 820 lb

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 Pole Mount Distribution 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 75 kVA, the industrial transformer features a primary voltage of single-phase 2400/4160Y Grounded Wye (2 wire) and a secondary voltage of single-phase 120/240V (L-L-N). 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 single-phase transformer consists of one coil and two core loops. Tin plated terminals on the primary and secondary side accepts copper or aluminum connections.

The MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 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-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 features Type II mineral oil insulation fluid. Internal marking is available for proper oil level monitoring. We offer transformers with FR-3 oil fluid, if needed.

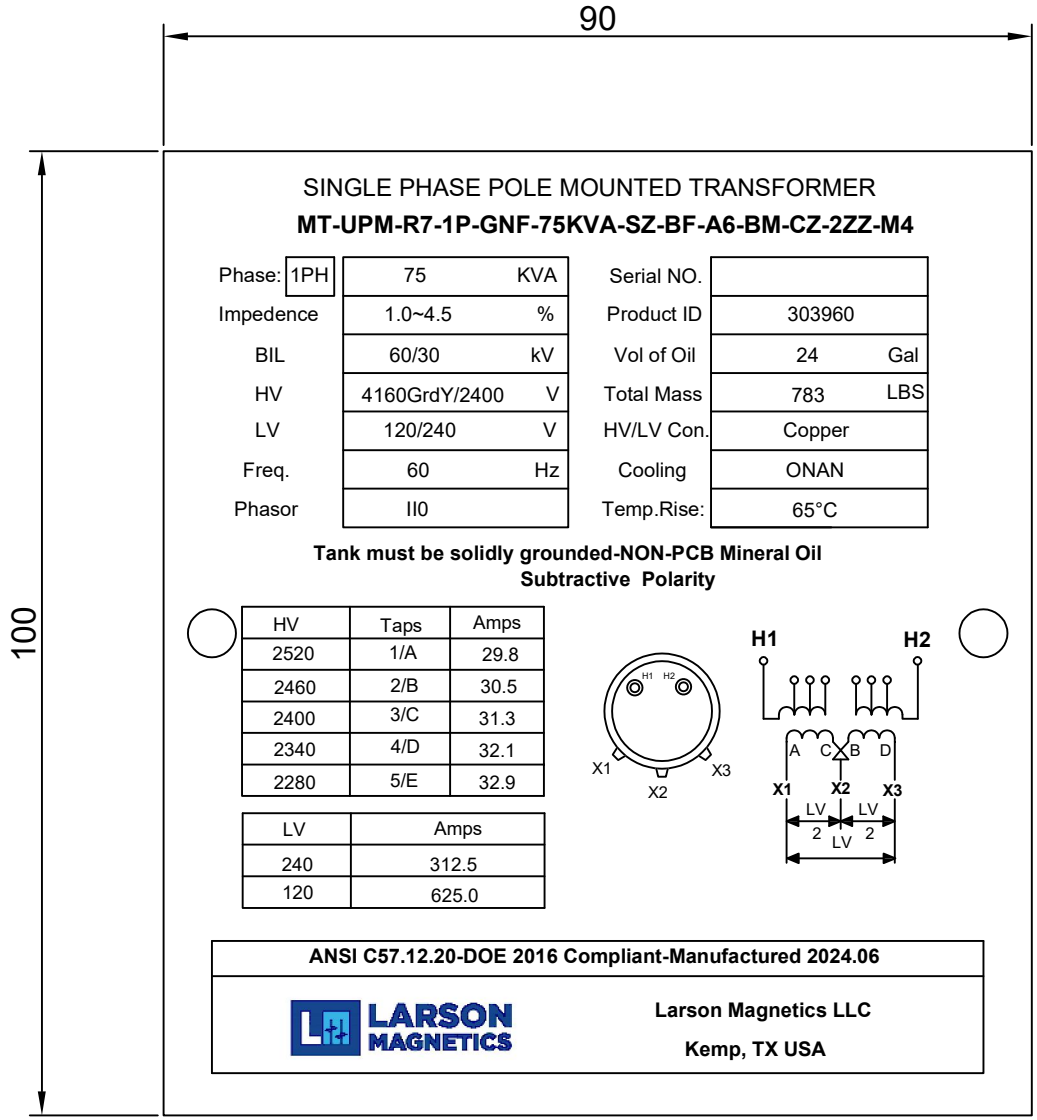
Gauges: There are no gauges on this transformer. We can add liquid level, temperature and pressure/vacuum gauges at an additional cost. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types.

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 comes with a lightning arrestor on the H1 primary terminal. Mounting provisions for installing lightning arrestor on the H2 primary terminal are available. Designed for over-voltage and transient voltage protection, the components prevent damage caused by lightning, internal switching or voltage

surges. We can offer models without high elbow surge arresters that have mounting provisions for customer-provided surge arresters.
Load Breaker Switch: The MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 does not have a load breaker switch.
Valves: The MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 is not equipped with a fill valve and drain valve with sampler port.
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 makes the unit suitable for and 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-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4 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.



SINGLE PHASE POLE MOUNTED TRANSFORMER

MT-UPM-R7-1P-GNF-75KVA-SZ-BF-A6-BM-CZ-2ZZ-M4

Phase:	1PH	75 KVA	Serial NO.		
Impedence		1.0~4.5 %	Product ID	303960	
BIL		60/30 kV	Vol of Oil	24	Gal
HV		4160GrdY/2400 V	Total Mass	783	LBS
LV		120/240 V	HV/LV Con.	Copper	
Freq.		60 Hz	Cooling	ONAN	
Phasor		II0	Temp.Rise:	65°C	

Tank must be solidly grounded-NON-PCB Mineral Oil
Subtractive Polarity

HV	Taps	Amps
2520	1/A	29.8
2460	2/B	30.5
2400	3/C	31.3
2340	4/D	32.1
2280	5/E	32.9

LV	Amps
240	312.5
120	625.0

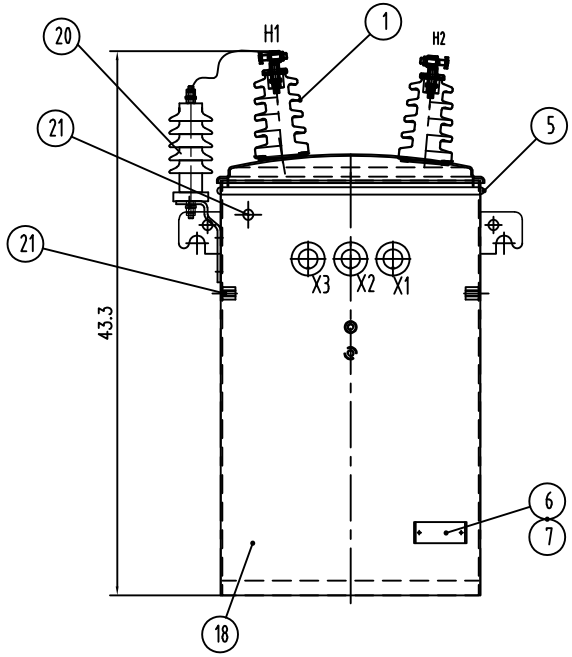
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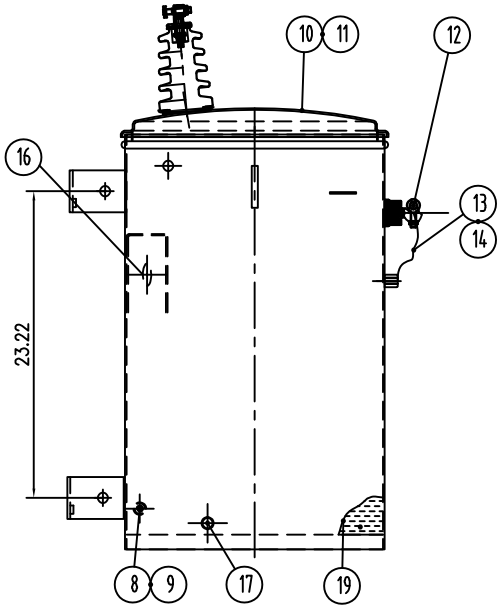
LARSON MAGNETICS

Larson Magnetics LLC

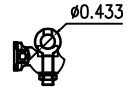
Kemp, TX USA

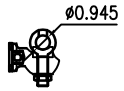
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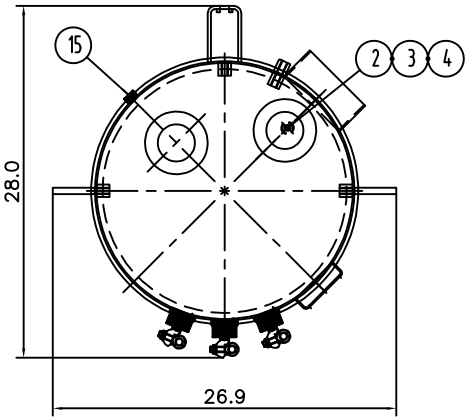




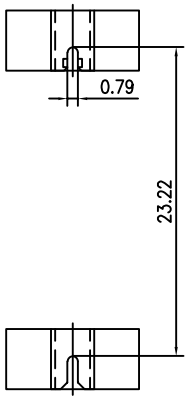
Approx. Weight:783lbs



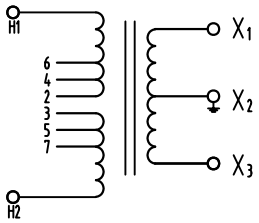




mounting bracket



wiring diagram



No.	Code	Name	QTY	Material	Unit Weight	Total Weight	Remark
21		oil level indicator	1				
20		arrester	1				
19		Insulation oil	1	mineral oil			
18		Tank	1	coated steel			
17		Drain valve	1				
16		Tap changer	2				
15		Pressure relief valve	1				
14		Washer 12	1				Galvanized
13		Bolt M12×25	1				Galvanized
12		LV bushing	3				
11		Sealing gasket	1				
10		Cover	1	coated steel			
9		Washer 12	2				Galvanized
8		Bolt M12×30	1				Galvanized
7		Screw M4X6	2				
6		Nameplate	1				
5		Hold down gear	1				
4		Ground strap	2				
3		Washer 12	2				Black coated
2		Bolt M12×20	2				Black coated
1		HV bushing	1				

Mark	Revise	Revision	Sign	Date
Designed		Standard		
Checked		Examined		
Audited		Approved		
Crafted		Date		

Pole Mounted TR

4160GrdY/2400V
120/240V, 75kVA

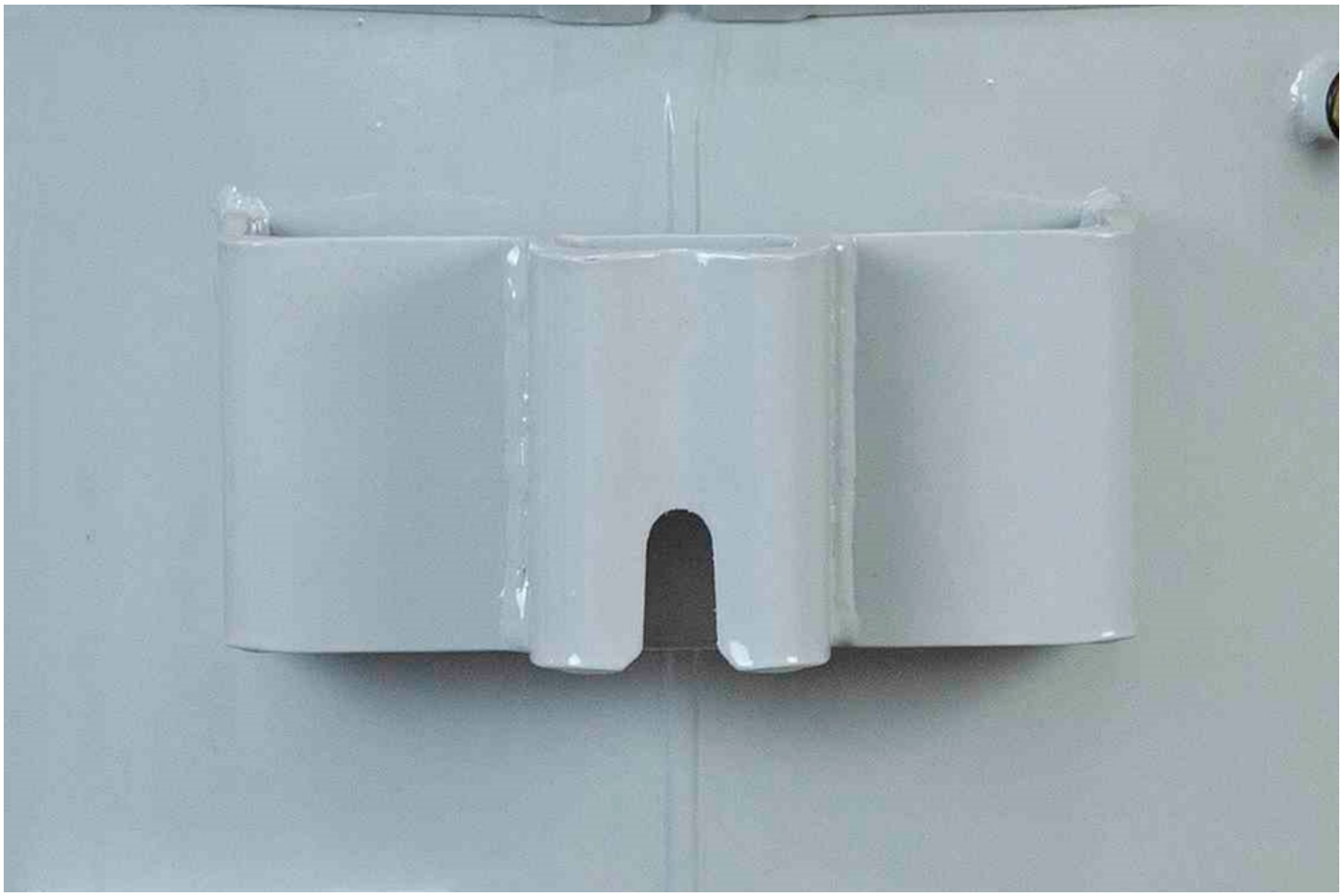
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NON-PCBs
X1
X2
X3






X3
X2
X1

Frequently Asked Questions (FAQ)