Larson Electronics LLC
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Email: sales@LarsonElectronics.com
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MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-A6-BM-CZ-1ZZ-M1

5 KVA Overhead Distribution Transformer, Pole Mount, 24940Y/14400 Grounded Wye Primary, 120/240 x 120/240V Secondary, Mineral Oil/ONAN, Copper, Light Grey

Product ID: 331948



Image: MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-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-GMF-5KVA-SLZ.LZ-BB-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: 5 KVA
Primary Voltage: 24940Y/14400
Primary Voltage Switch: N/A
Primary Voltage Class: 25 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 125 kV
Secondary Voltage: 120/240 x 120/240V (X1-X2-X3), (Y1-Y2-Y3)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
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 No-Load 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: 1.0-4.5% Typical

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Meets/Exceeds CSA Efficiency Ratings
Complies with ANSI / IEEE C57 12.00
Complies with ANSI / IEEE C57 12.10
Complies with ANSI / IEEE C57 12.30
Complies with ANSI / IEEE C57 12.31
Complies with ANSI / IEEE C57 12.35
Complies with ANSI / IEEE C57.12.90
Complies with ANSI / IEEE C62.11
Complies with ANSI / IEEE C62.22
Complies with ANSI / IEEE C2
Complies with ANSI / IEEE C37.47
Complies with ANSI Z535.4
Complies with ASTM D3487
Complies with ASTM D6871
Complies with 10 CFR Part 431
Complies with CAN / CSA C802.1-13
Complies with CAN / CSA C233.1-87
Complies with CAN / CSA C50
Complies with CSA C2.2:06
Complies with NEMA TP-1 2002

Features:

Non-PCB Insulating Fluid

Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushing
Primary Connection Qty: (2)
Primary Conductor Size: ≥ 4 AWG
Primary Minimum Creepage Distance: 17.5 inches
Primary Lightning Arrestors: N/A
Primary Lightning Mounting Provision: Mounting Provisions for Installing Lightning Arrestors on H1 & H2 Primary Terminals
Primary Lightning Arrestors Voltage Rating: N/A
Primary Lightning Arrestors MCOV Rating: N/A
Secondary Connection Type: Live Bushing Lug
Secondary Connections: NEMA 4-Hole Spade Terminals
Secondary Connection Qty: (6)
Secondary Conductor Size: ≥ 2/0 AWG
Secondary Minimum Creepage Distance: N/A
Secondary Neutral Connection: Secondary X2, Y2 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
Transformer Protection: N/A
Load Break Switch: N/A
Efficiency Standard(s): Meets DOE 2016 Standards, Meets CSA 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*: - Gallons
Fluid Weight*: 187 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
Ambient Temperature Rating: 40°C
Ambient Operating Temperature Range: -40°C to +40°C (-50°F to +104°F)
Sound Level: 48 dBA
Elevation Level: N/A
Core Material: Cold Rolled 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: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Total Paint Thickness: ≥ 120 µm
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Double Hanger Bracket
Mounting: Pole Mount via Hanger Brackets
Lifting Lugs: Included
Dimensions*: 28.6"D x 22"W x 41.3"H
Tank Diameter*: 13.39" OD
Dry Weight*: 132 Lbs
Total Weight (Liquid Filled)*: 440 Lbs
*Please note that numbers are approximate and subject to change

Lifting Lugs Included
Corrosion Resistant Cover Band

Efficiency: 98.30%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): 29W
Full Load Loss (in watts): 61W
Total Load Loss (in watts): 90W
Note: Losses offered are typical only, not guaranteed

Labeling:
Externally Stencilled (Painted) KVA Rating
Externally Stencilled (Painted) Voltage Rating
External Non-PCB Label
External Barcode Label
Stainless Steel Riveted Nameplate

Factory Tests:
Winding Resistance Test
Insulation Resistance Test
Voltage Ratio Error Test
Short-circuit Impedance Test
No-load Loss (Wattage) Test
Load Loss (Wattage) Test
Induced Voltage Withstand Test
Separate Source Voltage Withstand Test
Pressure Integrity Test
Polarity Test
Excitation Current Test

Shipping:
Shipped on pallet on open flatbed
Palletized on Wooden Pallet w/ Skid Pockets
Pallet Skid Facing Outward Sides of Truck
Note: For low quantity purchases, enclosed truck can be requested
Note: Crated shipping in lieu of palletizing can be done upon request for an additional fee

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

The MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-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 5 kVA, the industrial transformer features a primary voltage of 24940Y/14400 Grounded Wye and a secondary voltage of single-phase 120/240 x 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, dual bushings on the primary side and six 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 sides accept copper or aluminum connections.

The MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-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-GMF-5KVA-SLZ.LZ-BB-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 arrestors on the H1 and H2 primary terminals are included for installing arresters in-field.

Valves: The MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-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.

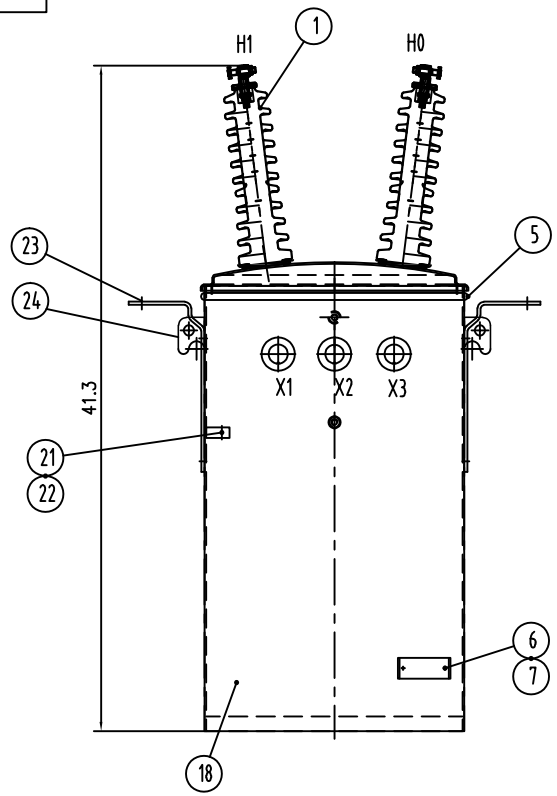
Mount: The heavy-duty enclosure makes the unit suitable for outdoor applications. Equipped with hanger brackets and lifting lugs, this overhead power distribution system can be mounted on poles.

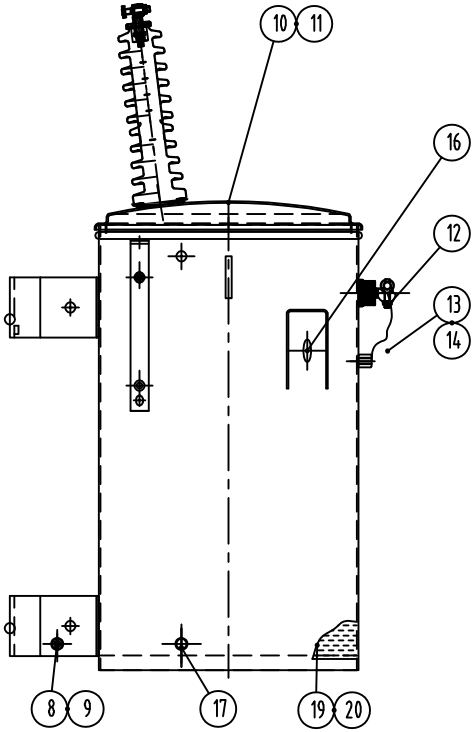
Benefits: The MT-UPM-R7-1P-GMF-5KVA-SLZ.LZ-BB-A6-BM-CZ-1ZZ-M1 heavy-duty transformer offers many benefits to consumers. This transformer provides owners with significant energy savings, as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also 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.

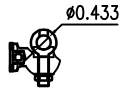




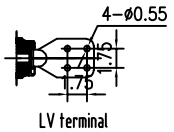
Approx. weight (Lbs)

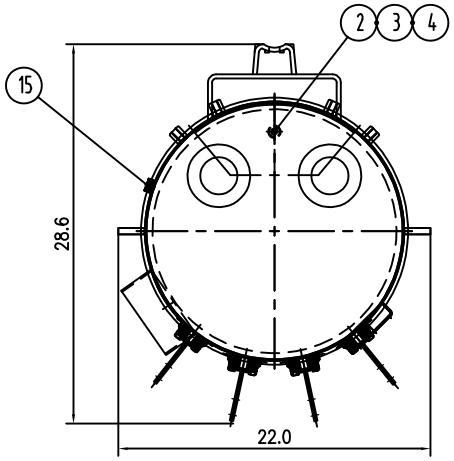
Untank	Oil	Total
132	187	440

HV terminal

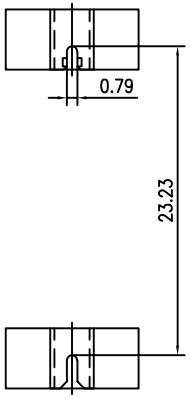


LV terminal

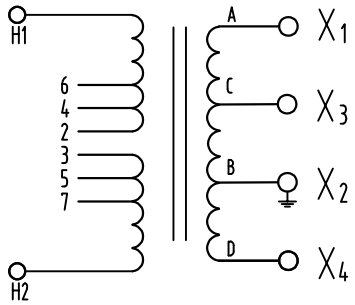




hanger bracket



wiring diagram



No.	Code	Name	QTY	Material	Unit Weight	Total Weight	Remark
25		painting	1	ANSI#70 grey			
24		lifting lug	2				
23		mounting provision	2				for arrester
22		washer 12	4				black coated
21		bolt M12×35	2				black coated
20		core&coil assembly	1	Cu coil			
19		insulation oil	1	mineral oil			
18		tank	1				
17		drain valve	1				
16		tap changer	1	±2×2.5%			
15		pressure relief valve	1				
14		washer 12	1				galvanized
13		bolt M12×25	1				galvanized
12	ANSI-1/315	LV bushing	4				4-HOLE spade
11		sealing gasket	1				
10		tank cover	1				
9		washer 12	4				
8		grounding terminal	1				
7		screw M4X6	2				
6		Nameplate	1				
5		hold down gear	1				
4		grounding strap	2	0.3 copper belt			
3		washer 12	2				black coated
2		bolt M12×20	2				black coated
1	ANSI-27/50	HV bushing	2				

mark	revise	revision	signature	date
designed		standard		
checked		examined		
audited		approved		
crafted		date		

Pole Mounted TR

24940GrdY/14400V,
120/240V, li0, 5KVA

pattern mark	mass	scale
page		page

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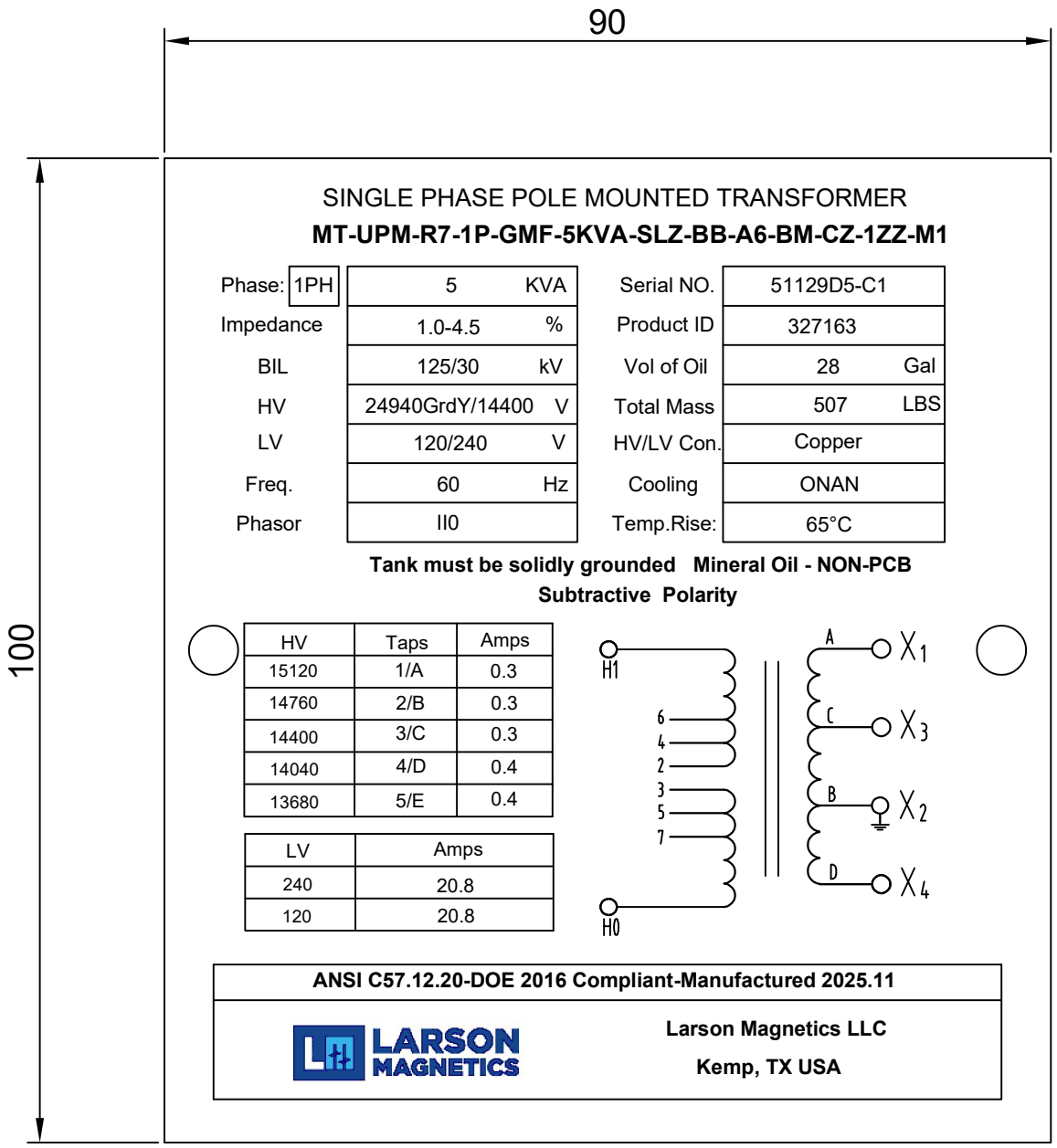
checked

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signature

date

Remark: dimensions here are in inches.Only for approval/preliminary design..



SINGLE PHASE POLE MOUNTED TRANSFORMER

MT-UPM-R7-1P-GMF-5KVA-SLZ-BB-A6-BM-CZ-1ZZ-M1

Phase:	1PH	5 KVA	Serial NO.	51129D5-C1	
Impedance		1.0-4.5 %	Product ID	327163	
BIL		125/30 kV	Vol of Oil	28	Gal
HV		24940GrdY/14400 V	Total Mass	507	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 Mineral Oil - NON-PCB

Subtractive Polarity

HV	Taps	Amps
15120	1/A	0.3
14760	2/B	0.3
14400	3/C	0.3
14040	4/D	0.4
13680	5/E	0.4

LV	Amps
240	20.8
120	20.8

ANSI C57.12.20-DOE 2016 Compliant-Manufactured 2025.11

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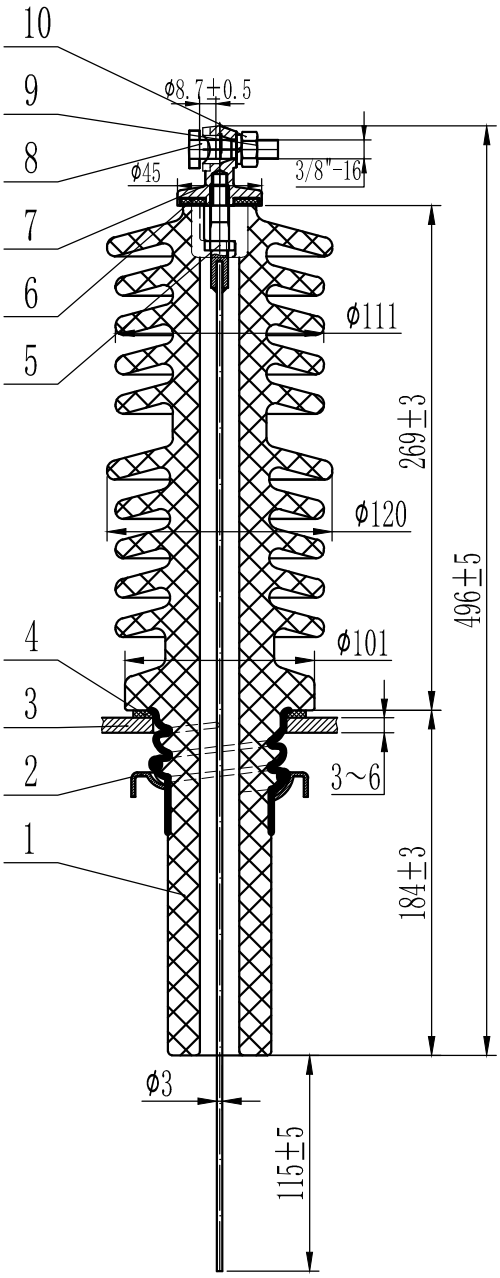
Larson Magnetics LLC

Kemp, TX USA

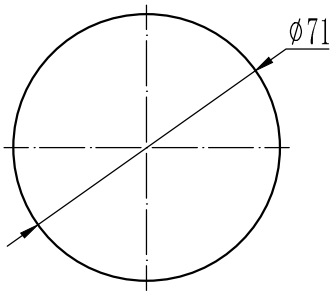
No.	Code(Model)	Name	QTY	Material
1		ANSI-25/55 porcelain bushing	1	HV porcelain
2		ANSI large turn buckle	1	Carbon steel
3		tank cover		
4	Φ92×Φ68×4	Rectangular seal ring	1	Acrylic ester
5		Φ3×580 conducting rod	1	Copper
6	Φ41×Φ15×3	Rectangular seal ring	1	Acrylic ester
7		ANSI fasten terminal	1	Brass
8		fasten rod	1	Brass
9		3/8 hexagon nut	1	SS
10		Spring washer	1	SS

Technical specification

power frequency withstand voltage	60kV/1min	lightning impulse	150kV
creepage distance	≥775mm	cantilever tolerance	1000N



tank cover hole dimension

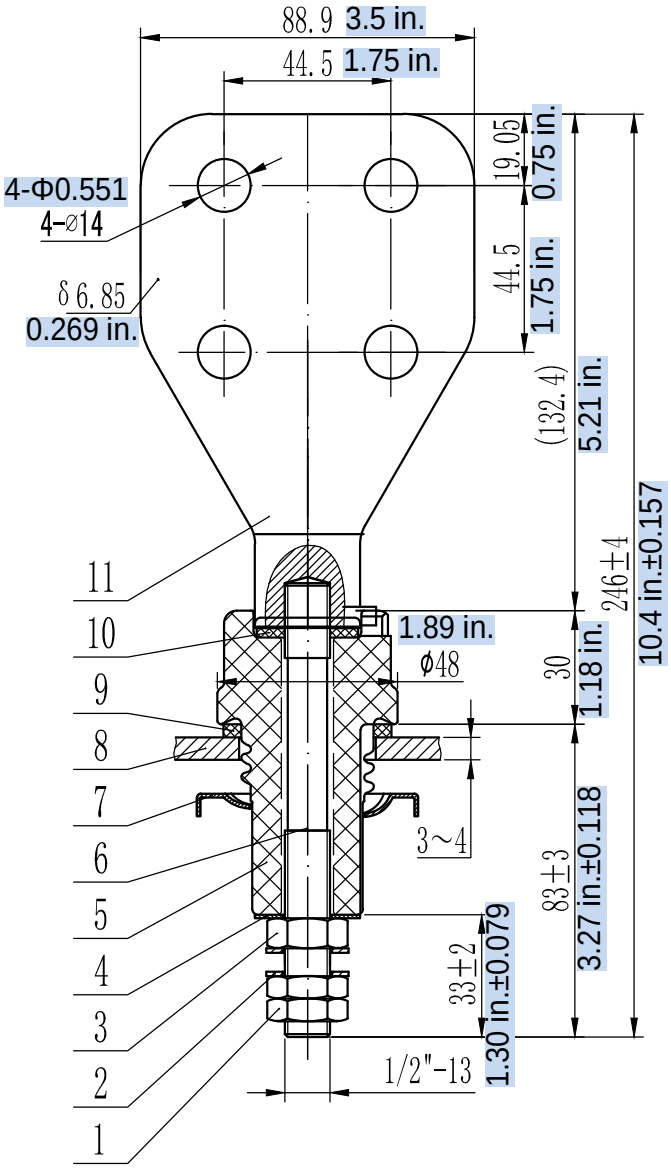


ANSI-25/55
Porcelain Bushing

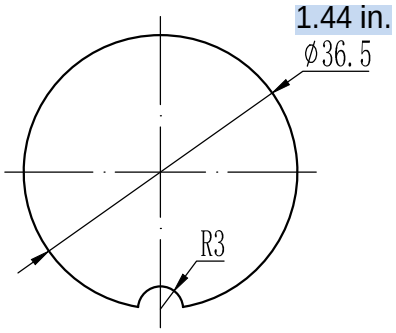
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No.	code (specifications)	name	quan-tity	material
1		1/2 Thin nut	2	brass
2		flat washer	2	brass
3		1/2 Thick nut	1	brass
4		large flat pads	1	stainless steel
5		ANSI-1/315 Porcelain Bottle	1	High pressure porcelain
6		1/2"×246 conducting rod	1	copper
7		American standard flower basket	1	Carbon steel
8		tank cover		
9	Φ44×Φ34.5×3.5	Rectangular sealing ring	1	Acrylate
10	Φ27×Φ12×2.5	Rectangular sealing ring	1	Acrylate
11		American standard terminal head	1	brass

Technical parameters			
AC	10kV/1min	BIL	30kV
Creepage distance	≥35mm	Cantilever load	1000N



Box cover opening size



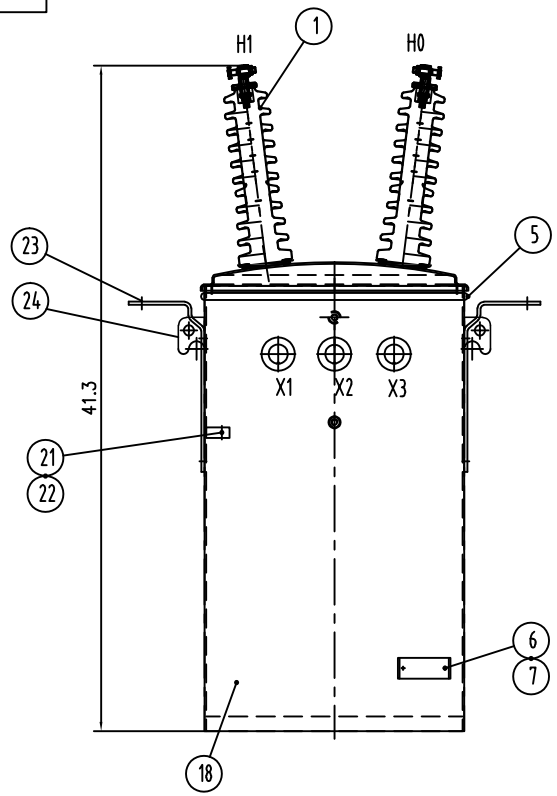
Marking	Number of places	Zoning	Change file number	Sign it	date

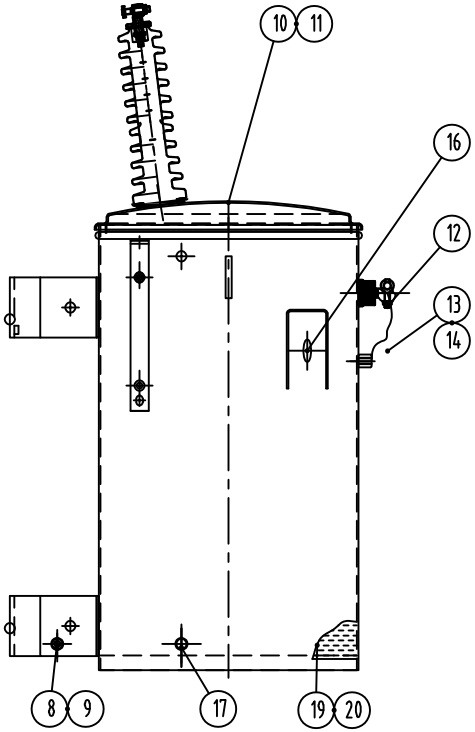
ANSI-1.2/250
American standard casing

design		Standardization			
check					
Audit					
Craft			Permission granted		25.05.19

pattern marking	weight	proportion
		1:2
One in all	Slide 1	

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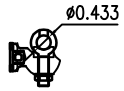




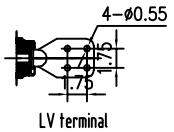
Approx. weight (Lbs)

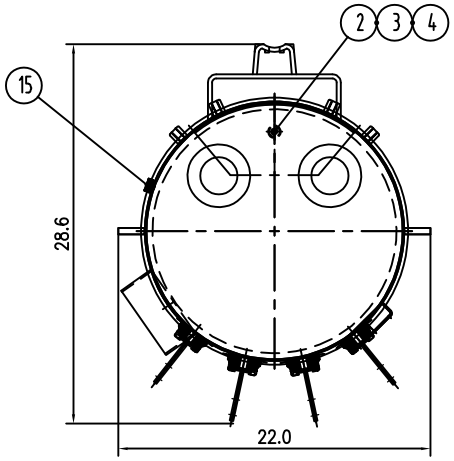
Untank	Oil	Total
132	187	440

HV terminal

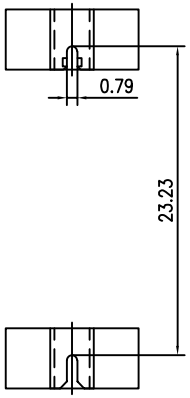


LV terminal

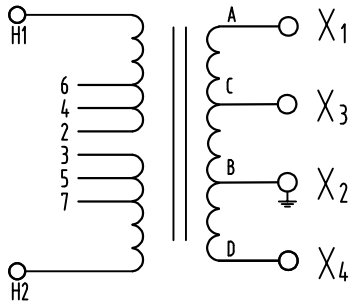




hanger bracket



wiring diagram



No.	Code	Name	QTY	Material	Unit Weight	Total Weight	Remark
25		painting	1	ANSI#70 grey			
24		lifting lug	2				
23		mounting provision	2				for arrester
22		washer 12	4				black coated
21		bolt M12×35	2				black coated
20		core&coil assembly	1	Cu coil			
19		insulation oil	1	mineral oil			
18		tank	1				
17		drain valve	1				
16		tap changer	1	±2×2.5%			
15		pressure relief valve	1				
14		washer 12	1				galvanized
13		bolt M12×25	1				galvanized
12	ANSI-1/315	LV bushing	4				4-HOLE spade
11		sealing gasket	1				
10		tank cover	1				
9		washer 12	4				
8		grounding terminal	1				
7		screw M4X6	2				
6		Nameplate	1				
5		hold down gear	1				
4		grounding strap	2	0.3 copper belt			
3		washer 12	2				black coated
2		bolt M12×20	2				black coated
1	ANSI-27/50	HV bushing	2				

mark	revise	revision	signature	date
designed		standard		
checked		examined		
audited		approved		
crafted		date		

Pole Mounted TR

24940GrdY/14400V,
120/240V, li0, 5KVA

pattern mark	mass	scale
page		page

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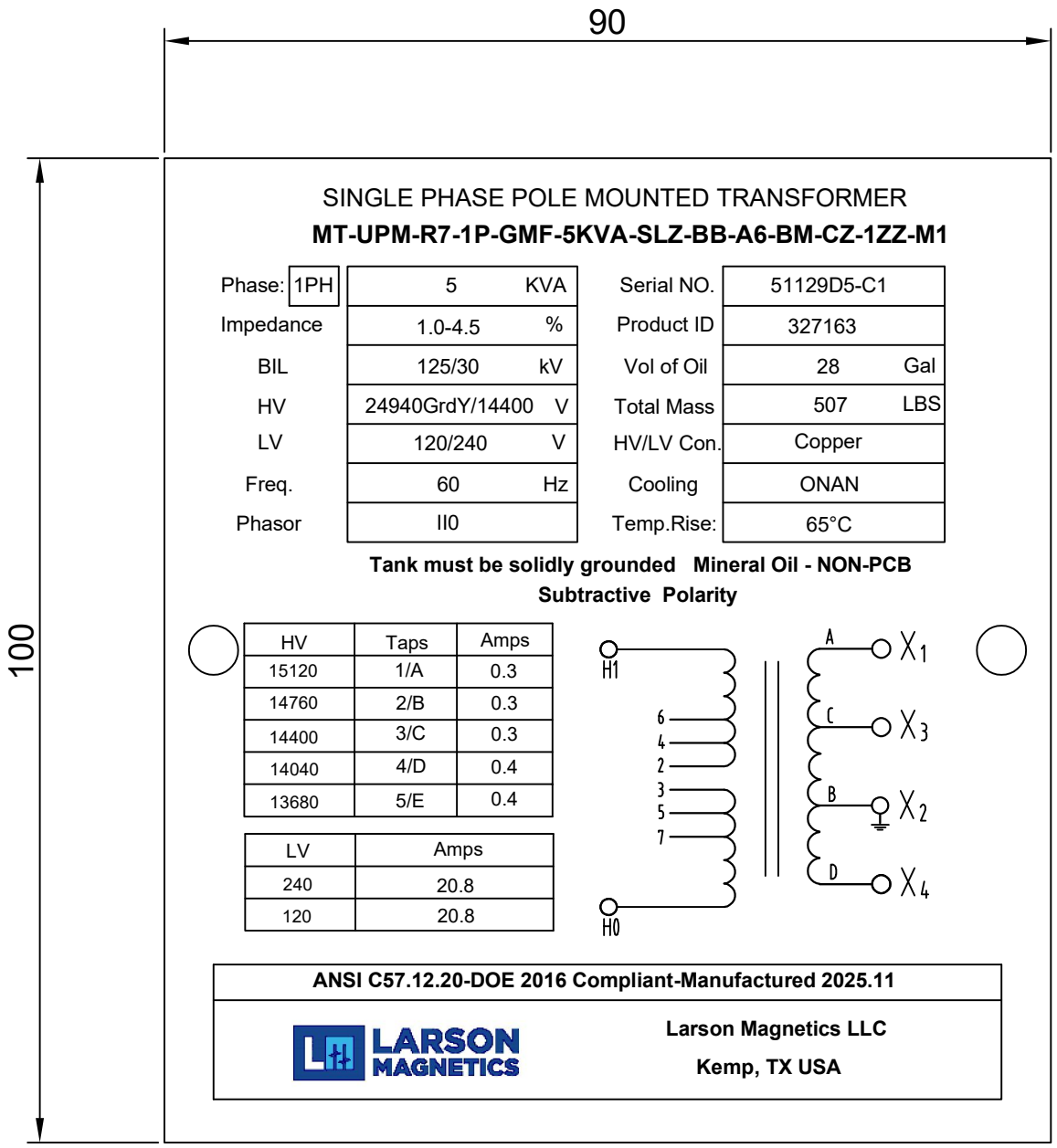
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signature

date

Remark: dimensions here are in inches.Only for approval/preliminary design..



SINGLE PHASE POLE MOUNTED TRANSFORMER

MT-UPM-R7-1P-GMF-5KVA-SLZ-BB-A6-BM-CZ-1ZZ-M1

Phase:	1PH	5 KVA	Serial NO.	51129D5-C1	
Impedance		1.0-4.5 %	Product ID	327163	
BIL		125/30 kV	Vol of Oil	28	Gal
HV		24940GrdY/14400 V	Total Mass	507	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 Mineral Oil - NON-PCB

Subtractive Polarity

HV	Taps	Amps
15120	1/A	0.3
14760	2/B	0.3
14400	3/C	0.3
14040	4/D	0.4
13680	5/E	0.4

LV	Amps
240	20.8
120	20.8

ANSI C57.12.20-DOE 2016 Compliant-Manufactured 2025.11

LARSON MAGNETICS

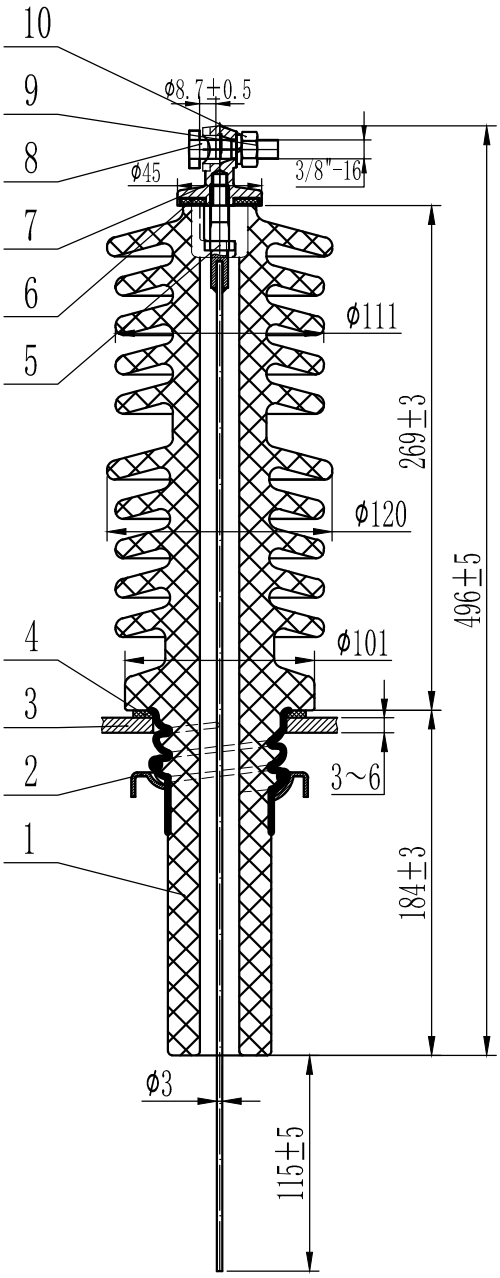
Larson Magnetics LLC

Kemp, TX USA

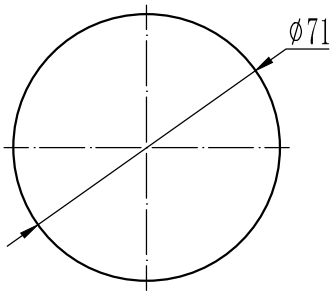
No.	Code(Model)	Name	QTY	Material
1		ANSI-25/55 porcelain bushing	1	HV porcelain
2		ANSI large turn buckle	1	Carbon steel
3		tank cover		
4	Φ92×Φ68×4	Rectangular seal ring	1	Acrylic ester
5		Φ3×580 conducting rod	1	Copper
6	Φ41×Φ15×3	Rectangular seal ring	1	Acrylic ester
7		ANSI fasten terminal	1	Brass
8		fasten rod	1	Brass
9		3/8 hexagon nut	1	SS
10		Spring washer	1	SS

Technical specification

power frequency withstand voltage	60kV/1min	lightning impulse	150kV
creepage distance	≥775mm	cantilever tolerance	1000N



tank cover hole dimension

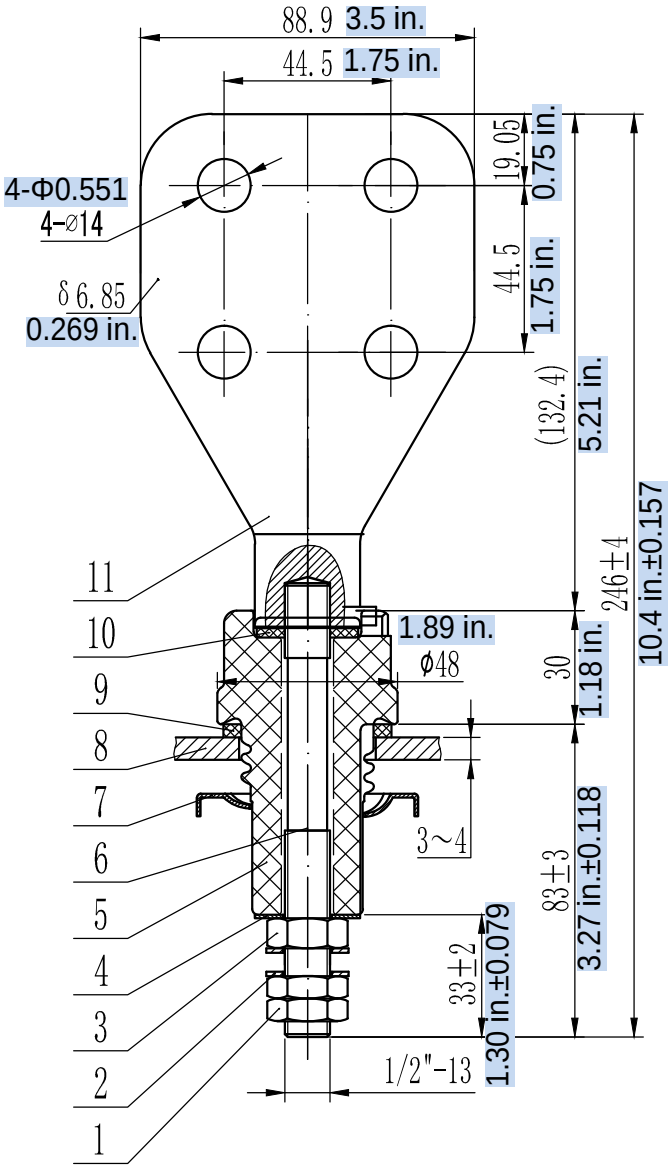


ANSI-25/55
Porcelain Bushing

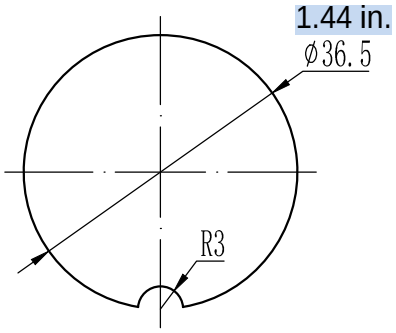
LARSON MAGNETICS

No.	code (specifications)	name	quan-tity	material
1		1/2 Thin nut	2	brass
2		flat washer	2	brass
3		1/2 Thick nut	1	brass
4		large flat pads	1	stainless steel
5		ANSI-1/315 Porcelain Bottle	1	High pressure porcelain
6		1/2"×246 conducting rod	1	copper
7		American standard flower basket	1	Carbon steel
8		tank cover		
9	Φ44×Φ34.5×3.5	Rectangular sealing ring	1	Acrylate
10	Φ27×Φ12×2.5	Rectangular sealing ring	1	Acrylate
11		American standard terminal head	1	brass

Technical parameters			
AC	10kV/1min	BIL	30kV
Creepage distance	≥35mm	Cantilever load	1000N



Box cover opening size



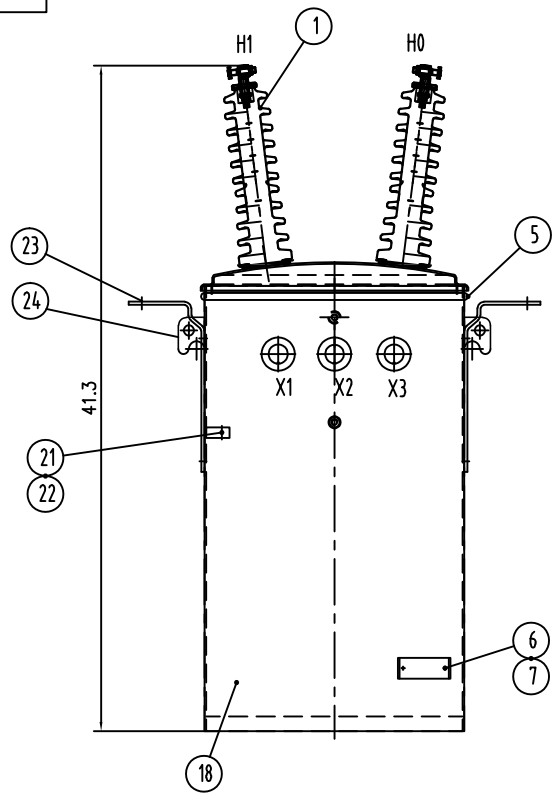
Marking	Number of places	Zoning	Change file number	Sign it	date

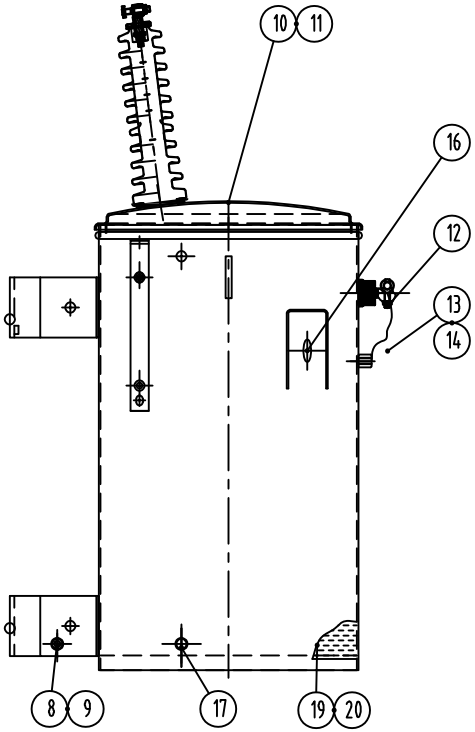
ANSI-1.2/250
American standard casing

design		Standardization			
check					
Audit					
Craft			Permission granted		25.05.19

pattern marking	weight	proportion
		1:2
One in all	Slide 1	

LARSON MAGNETICS

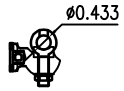




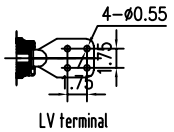
Approx. weight (Lbs)

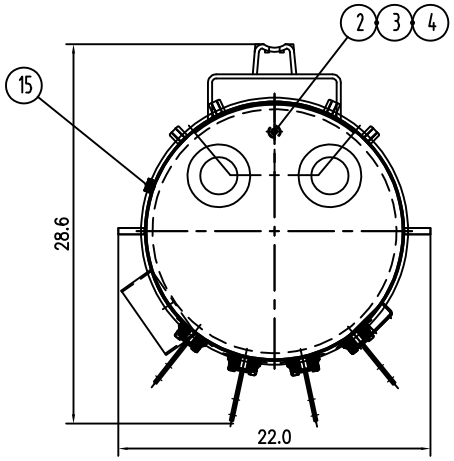
Untank	Oil	Total
132	187	440

HV terminal

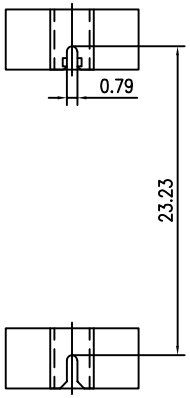


LV terminal

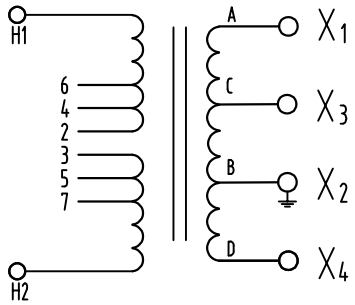




hanger bracket



wiring diagram



No.	Code	Name	QTY	Material	Unit Weight	Total Weight	Remark
25		painting	1	ANSI#70 grey			
24		lifting lug	2				
23		mounting provision	2				for arrester
22		washer 12	4				black coated
21		bolt M12×35	2				black coated
20		core&coil assembly	1	Cu coil			
19		insulation oil	1	mineral oil			
18		tank	1				
17		drain valve	1				
16		tap changer	1	±2×2.5%			
15		pressure relief valve	1				
14		washer 12	1				galvanized
13		bolt M12×25	1				galvanized
12	ANSI-1/315	LV bushing	4				4-HOLE spade
11		sealing gasket	1				
10		tank cover	1				
9		washer 12	4				
8		grounding terminal	1				
7		screw M4X6	2				
6		Nameplate	1				
5		hold down gear	1				
4		grounding strap	2	0.3 copper belt			
3		washer 12	2				black coated
2		bolt M12×20	2				black coated
1	ANSI-27/50	HV bushing	2				

mark	revise	revision	signature	date
designed		standard		
checked		examined		
audited		approved		
crafted		date		

Pole Mounted TR

24940GrdY/14400V,
120/240V, li0, 5KVA

pattern mark	mass	scale
page		page

LARSON MAGNETICS

scanned

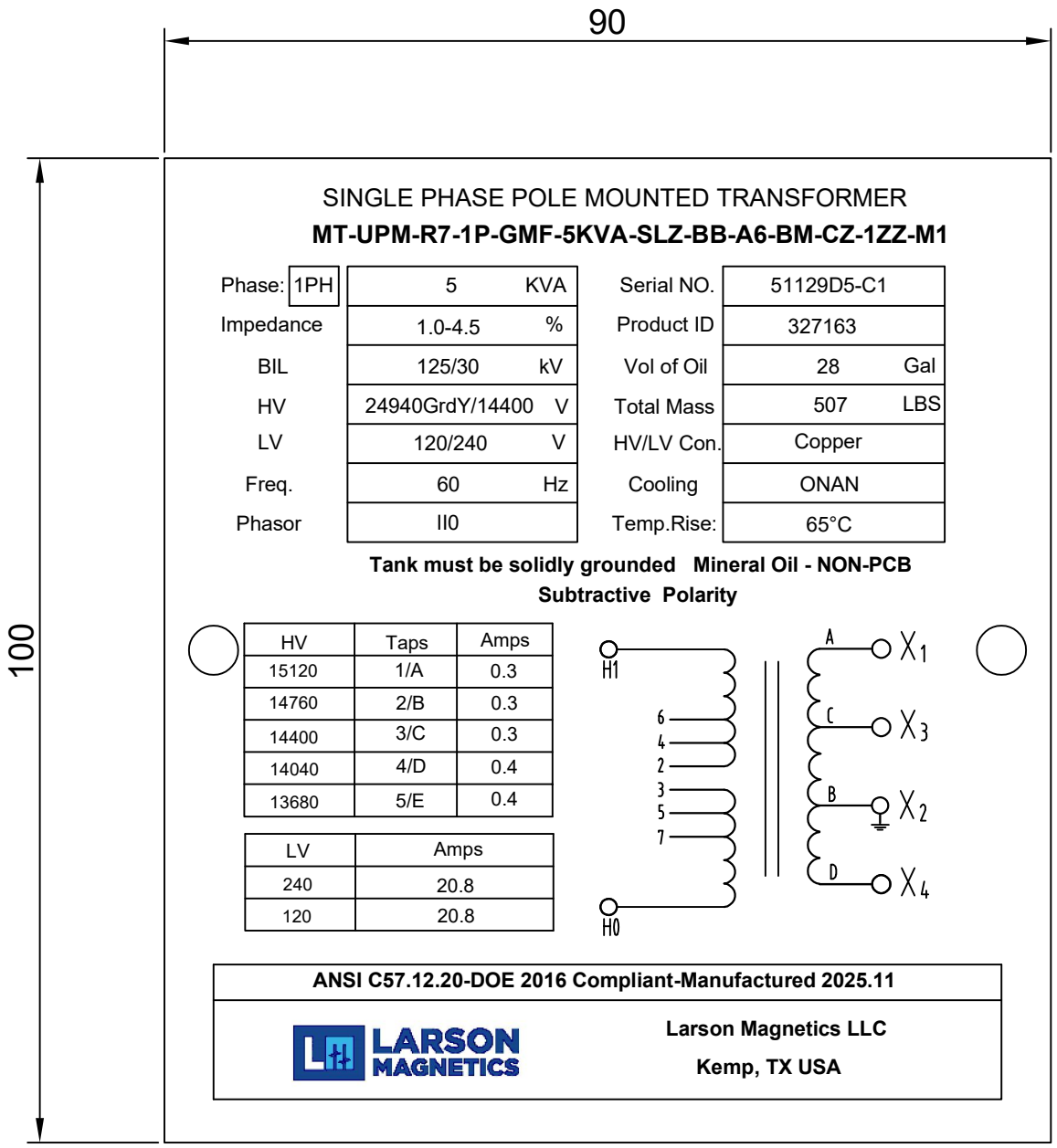
checked

0

signature

date

Remark: dimensions here are in inches.Only for approval/preliminary design..



SINGLE PHASE POLE MOUNTED TRANSFORMER

MT-UPM-R7-1P-GMF-5KVA-SLZ-BB-A6-BM-CZ-1ZZ-M1

Phase:	1PH	5 KVA	Serial NO.	51129D5-C1	
Impedance		1.0-4.5 %	Product ID	327163	
BIL		125/30 kV	Vol of Oil	28	Gal
HV		24940GrdY/14400 V	Total Mass	507	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 Mineral Oil - NON-PCB

Subtractive Polarity

HV	Taps	Amps
15120	1/A	0.3
14760	2/B	0.3
14400	3/C	0.3
14040	4/D	0.4
13680	5/E	0.4

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ANSI C57.12.20-DOE 2016 Compliant-Manufactured 2025.11

LARSON MAGNETICS

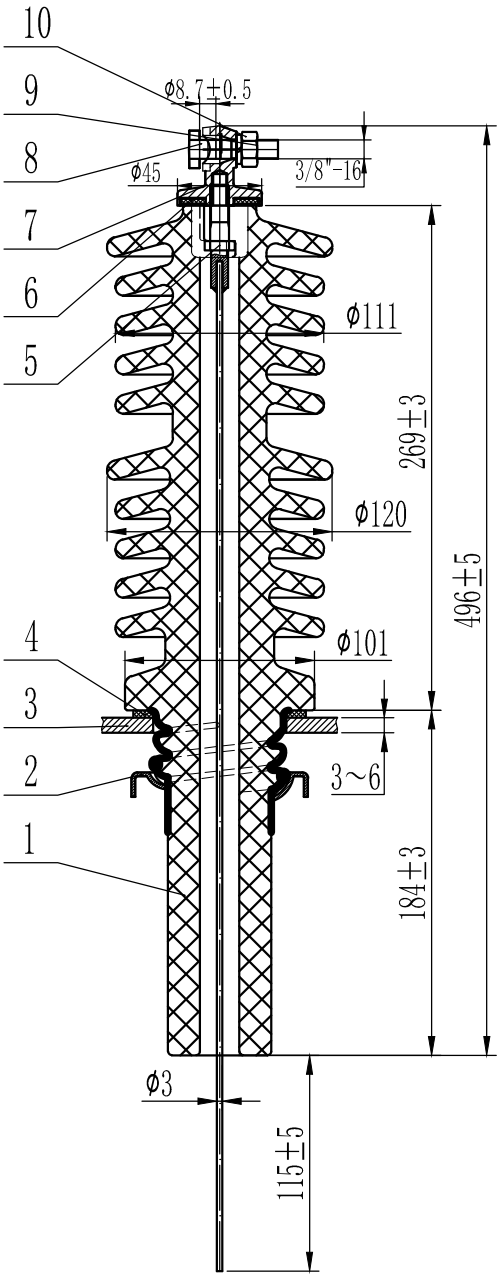
Larson Magnetics LLC

Kemp, TX USA

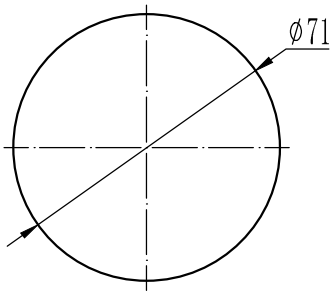
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tank cover hole dimension

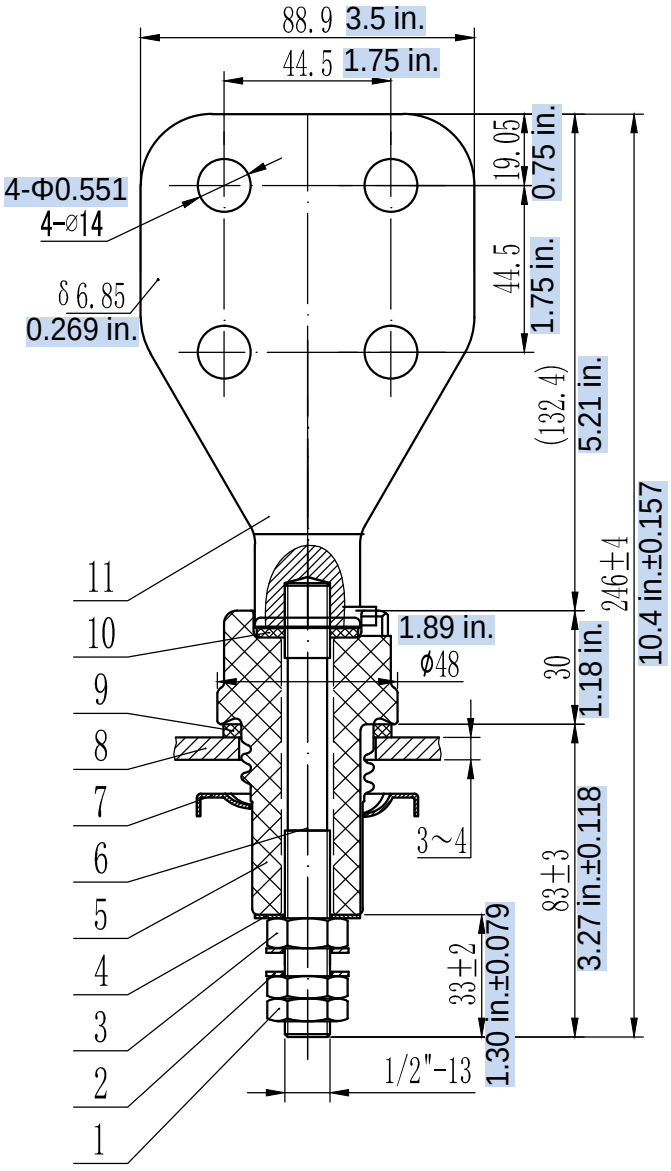


ANSI-25/55
Porcelain Bushing

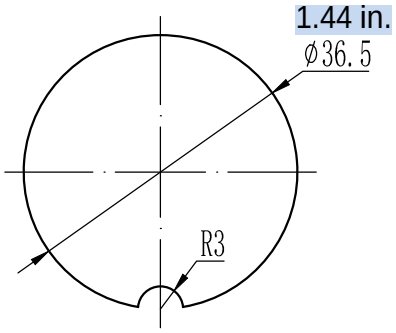
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Marking	Number of places	Zoning	Change file number	Sign it	date

ANSI-1.2/250
American standard casing

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check					
Audit					
Craft			Permission granted		25.05.19

pattern marking	weight	proportion
		1:2
One in all	Slide 1	

LARSON MAGNETICS

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9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



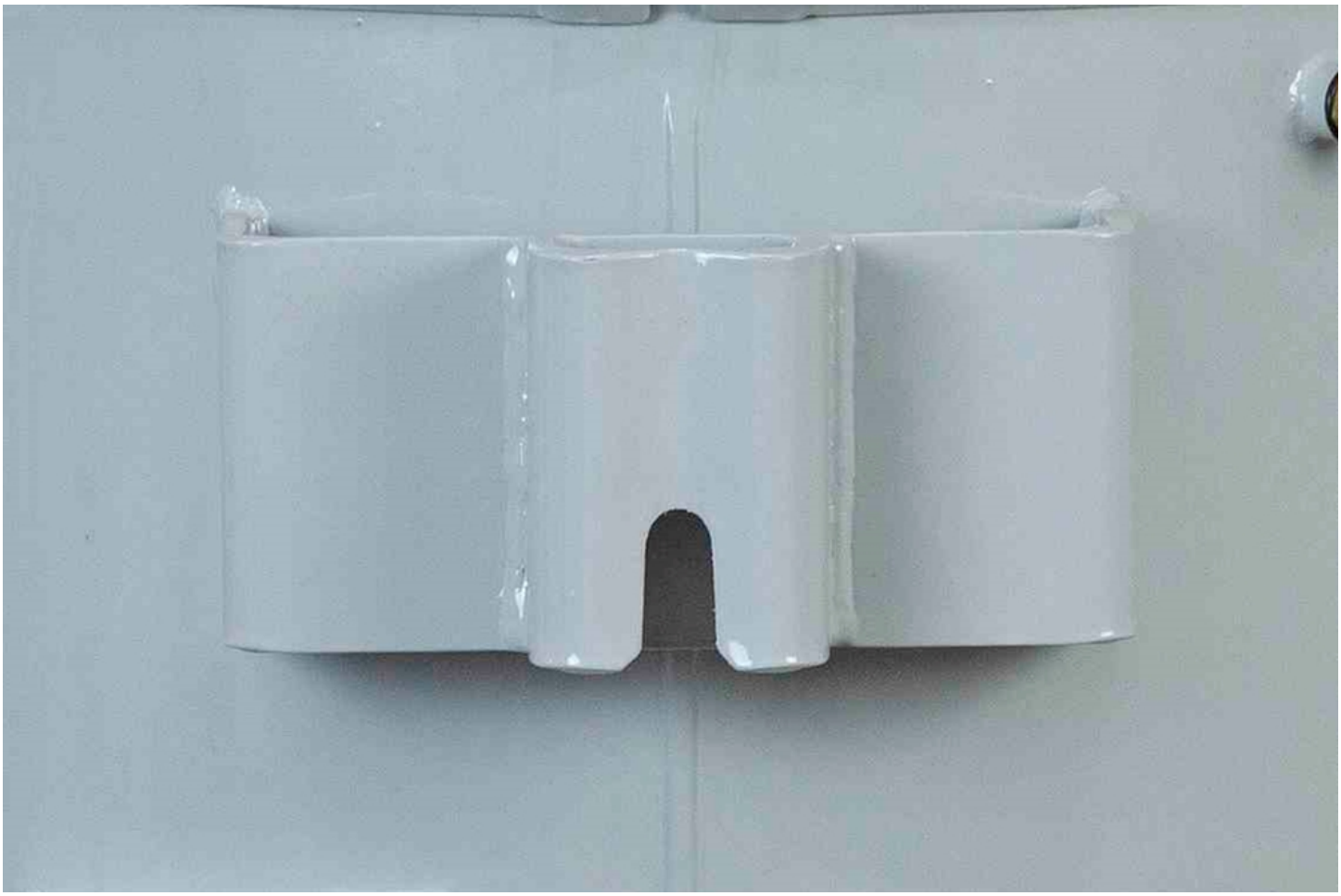
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Frequently Asked Questions (FAQ)

There are no Faqs