

# Single-Phase Overhead Distribution Transformers

*A History of Quality Products and Services*



**Central Moloney, Inc.**  
*An ISO 9001-2000 Certified Company*

# At Central Moloney, It's Not Ju

## Company History

Central Moloney, Inc., located in Pine Bluff, Arkansas is a leading manufacturer of a broad range of single-phase and three-phase distribution transformers and related molded accessories. Styles include pole mounted, pad mounted, network and submersible type transformers. Options include conventional, self protected and step type units.

We take seriously our mission to provide products and services that establish the standard of quality and performance to the customers we serve. Central Moloney is a continuous improvement company focused on total customer satisfaction. With over fifty years of experience manufacturing transformers to the exact requirements of our customers, our company operates to strict standards through ISO 9001-2000 certification.

We pride ourselves on a quality product, quality service and competitive pricing.



## Innovation and Leadership

Central Moloney's experienced sales and engineering staff works closely with our customers to support product design and development needs. With today's utilities aggressively looking for reliable, cost-effective alternatives and more value than ever before, Central Moloney is consistently providing innovative solutions that meet the needs of customers across the United States and beyond.

## Standard KVA and Voltage Ratings

### Single-Phase Conventional

#### KVA Ratings (65°C Rise)

5, 10, 15, 25, 37.5,  
50, 75, 100, 167, 250,  
333, 500

#### High-Voltage Ratings

Single voltage 2400  
through 34400  
(60 kV through 200 kV BIL)  
Dual voltage (no taps)

#### Low-Voltage Ratings

120, 120/240, 240/480,  
277, 277/554, 347  
(30 kV BIL)

### Single-Phase Self-Protected

#### KVA Ratings (65°C Rise)

5, 10, 15, 25, 37.5, 50,  
75, 100

#### High-Voltage Ratings

Single voltage 2400  
through 34400  
(60 kV through 200 kV BIL)  
Dual voltage (no taps)

#### Low-Voltage Ratings

120/240, 240/480, 277  
(30 kV BIL)

### Single-Phase Step-Up/Step-Down

#### KVA Ratings (65°C Rise)

25, 37.5, 50, 75, 100, 167  
250, 333, 500,  
1000 kVA auto transformer

#### High-Voltage Ratings

7200 through 34400  
(95 through 200 kV BIL)

#### Low-Voltage Ratings

2400 through 14400  
(60 kV through 125 kV BIL)  
some dual voltages  
available contact factory  
for availability



# Just Another Day At The Factory



## Ultimate Safety with Superior Cover Retention

The unique tank curl is the anchor of the most dependable cover retention system in the industry. The key is rigidity and this design is so rigid it will stay round even after removing the cover. Repair and cover replacement are a snap!



## Ease and Flexibility of Installation with a Superior Bushing Design

This terminal allows the Central Moloney primary porcelain bushing to accept the widest range of wire sizes in the industry (#8 copper to #2/0 stranded). This gives you more choice of conductor sizes than with any other transformer manufacturer.



## Zero Maintenance with Leak-Free Consistency

Automated tank and bottom seam welds and triple leak checks with pressure and vacuum ensure a leak-free tank. With the addition of Central Moloney bushings and switches featuring positive compression stops and fully captive gaskets, there are no weak links in the chain.



## Improved Reliability with Continuous Welds

The two main ingredients of corrosion are air and water. A spot-weld leaves gaps that are never fully coated, thus allowing moisture ingress. Central Moloney fully welds (continuous) all attachments. This is just one example of attention to detail for corrosion protection.



## Extended Service Life with Unmatched Corrosion Protection

The Central Moloney pole type finish was the first in the industry to meet the rigid EEL proposed guidelines for pad mount equipment before they became the ANSI C57.12.28 standard. Careful attention to design and manufacturing details make the difference.



## Safety and Corrosion Resistance with a Unique Bottom Design

The tank bottom is ribbed for strength, and indented with a center-of-the-tank locator for the core/coil assembly. Also standard is the innovative bottom curl that prevents a raw edge from being abraded excessively when moved. Nowhere but Central Moloney can you even buy such features!

## Standard Features

- Meets or exceeds latest applicable ANSI, NEMA and RUS standards as applicable
- Shell-form core designs
- All coils are wound with adhesive coated Kraft layer insulation
- Adjustable J-bolt frame and blocking add to short circuit withstand
- In-house short circuit testing capability allows for audit testing as required
- Non-interlaced low voltages. Interlaced low voltage windings available if required
- Wet-processed porcelain high-voltage bushings
- Molded polymer low voltage bushings
- Mild steel tank, cover and clamping ring are standard. Total or partial 409 or 304 series stainless steel designs are available.
- Continuous welding of hanger bracket, lifting lugs and ground bosses
- Tank rim is rolled 360° to provide superior cover retention
- Tank bottom is recessed and tank edge is turned inward 90° to provide scuff protection
- Tin-plated bronze terminals suitable for either copper or aluminum connection
- Low-voltage grounding provisions
- Low-voltage bushing ground strap on one-bushing units
- Low-voltage leads permanently marked internally
- Cover is grounded externally to the upper hanger bracket
- Automatic pressure relief valve to safely relieve internal pressure
- Mineral oil with inhibitor
- Tank grounding provision
- Tank grounding connector on single bushing transformers
- Tank, cover and clamping ring surfaces are chemically etched in preparation for painting
- Tank, cover and clamping ring are powder coated
- Tank cover insulated
- Laser-engraved nameplate
- KVA marking on tank
- 20°C cold oil level marked internally
- Low-voltage circuit breaker on self-protected units
- External, tank-mounted arrester on self-protected units
- Internal block mounted high-voltage expulsion fuse on self-protected units



## Optional Features, Accessories and Design Standards

- Total or partial 409 or 304 series stainless steel designs are available
- Lightning arrester mounting provisions (standard on self-protected transformers)
- Lightning arrester, externally-mounted or internally-mounted under oil (externally-mounted lightning arrester standard on self-protected transformers)
- High-voltage taps are available
- Dual high-voltage switch with external operating handle
- Dual low-voltage switch (available only on step-up/step-down transformers)
- Interlaced low-voltage windings
- Wildlife protection
- Emergency overload reset handle (available only on self-protected transformers)
- Tank ground connector (standard on one-bushing transformers)
- Low-voltage winding ground strap (standard on one-bushing transformers except step-up / step-down units)
- Custom stenciling and labeling
- Bar-coding
- Laser engraved stainless steel nameplate
- Rural Utilities Service (RUS) design standards
- Canadian Standards Association (CSA) design standards
- Other non-U.S. design standards
- U.S. EPA Energy Star compliant designs
- NEMA TP-1 compliant designs

Check with a factory sales representative for availability of other optional accessories not listed.

## ENERGY STAR TRANSFORMERS

Central Moloney, Inc. is a charter member of the Energy Star Transformer Program. As a member we have optional transformer designs available that meet the Energy Star guidelines for energy efficiency.



# A pole type finish system that withstands the environments

## Corrosion Protection/Finish System

The paint system applied to Central Moloney's pole type transformers is a two-step process specifically tailored for the environments encountered by this product line.

All tanks undergo a five-stage washing and phosphatizing process. This cleans the tank to bare metal. The metal surface is chemically etched and phosphatized providing a good anchor for the finish coat.

The topcoat is a polyester powder. This durable ultraviolet resistant finish provides maximum protection against corrosion atmospheric conditions.

Our paint specialists constantly stay abreast of new technology in corrosion protection, and by working closely with paint suppliers, we keep our finish systems "state-of-the-art" in quality of protection.

## Testing

In Central Moloney's test department, the company subjects its products to strict and rigorous testing that meets all applicable IEEE/ANSI Standards. These tests include:

- Impulse
- Hipot
- No-Load Loss (Core Loss)
- Load Loss (Copper Loss) & Impedance
- Polarity
- Induce
- Ratio
- Other tests as required by customer or specification



## Components

For the ultimate in value and reliability, the Central Moloney Components Operation produces the majority of components used on Central Moloney's single-phase pole type transformers. For over 30 years, Central Moloney Components has been a leader in the design and manufacture of transformer components. You can be assured that the secondary bushings, fuse holders, weak link fuses, fuse mounting blocks, terminal blocks, tap changers, dual voltage switches, wildlife guards, etc. will have Central Moloney's logo of quality on them.

## Customer Service

Call us at (870) 534-5332 **OR** Fax us at (870) 543-6560 **OR** E-Mail us at [info@centralmoloneyinc.com](mailto:info@centralmoloneyinc.com)

## Central Moloney, Inc.

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