

Three-Phase Distribution Transformers



We've Earned Our Reputation For Transformer Excellence



Central Moloney, Inc.
An ISO 9001 Certified Company

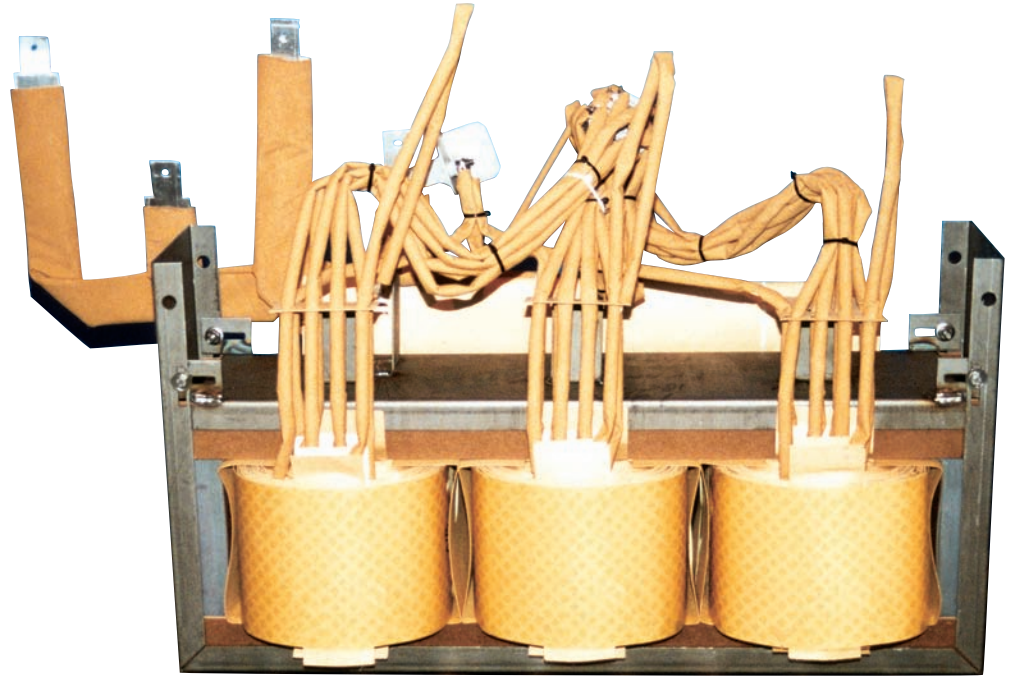
Commitment To The Industry

Central Moloney, Inc., the name that has been synonymous with quality built single-phase transformers for over 50 years, is introducing a new line – three-phase padmounted transformers to complement and enhance our product scope.

At Central Moloney, we continuously strive to go above and beyond in order to bring our customers the best products and value in the marketplace. Our staff and management are composed of individuals with unique and unmatched experience.

Whether you are planning a requirement for one or a hundred three-phase padmounted transformers, Central Moloney is ready to discuss your needs.

YOU ASKED FOR IT



CORE & COIL ASSEMBLY

Central Moloney's three-phase padmounted transformers feature a five-legged wound core construction. Each core loop is carefully assembled around the coil legs using techniques that will create minimal stress in the core.

The coils are precision engineered and manufactured using only the highest quality materials to provide a reliable finished product. Central Moloney coils utilize thermally upgraded insulation with a diamond pattern epoxy adhesive that forms a very high strength bond. The bonding provides superior mechanical strength. Additional layers of thermally upgraded insulation are used at all high voltage line ends to provide superior layer-to-layer dielectric strength. Use of cooling ducts reduces the coil hot-spot gradient. The duct size and location are predetermined by the specific current densities, winding length, and past history of tested coils.

Insulating blocks support the core/coil assembly. The blocks evenly

cores, insulation, blocking) is directly fastened to the tank sidewalls.

Central Moloney core/coil assemblies are engineered to provide a high quality and reliable finished product.

TANK AND CABINET DESIGN

Central Moloney's three-phase padmounted transformers feature a tank shell formed of HRPO mild or stainless steel, welded for strength and durability. The tank base plate is equipped with base bars to provide for rolling in either direction.

The main tank cover is welded to the tank rim. Heavy duty lifting lugs and jacking facilities are provided for safety and ease of handling and moving.

The high voltage and low voltage terminating compartment is formed of minimum 12-gauge steel and is bolted to the tank using galvanized or brass hardware. The lower front sill is removable for ease of installation on a pad with cables in place.

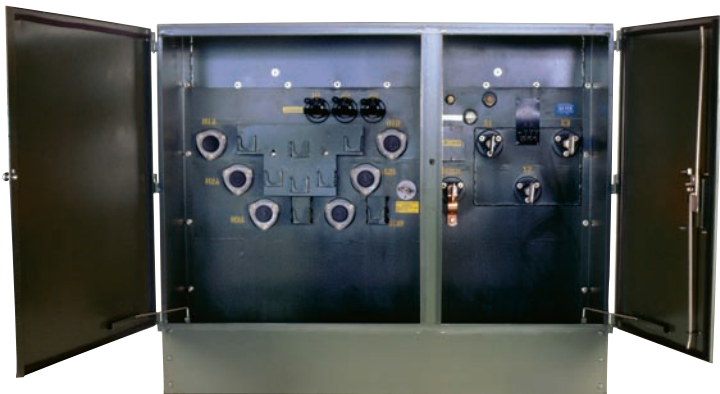
The low voltage door overlaps the high voltage door. Both doors are equipped with stops for securing in open positions. All hinges are stainless steel welded type with minimum .375" diameter pins.

CORROSION PROTECTION/FINISH SYSTEM

All weld studs are stainless steel. All external fastened hardware is stainless or other non-corrosive resistant material.

The paint system applied to Central Moloney's three-phase padmounted transformers is the most effective and robust corrosion protection system available in the industry today. The essential element in this paint system is zinc. **Zinc**, one of the most active in the electromotive series of metals, protects the transformer tank by acting as the anode in a galvanic cell formed by the tank substrate (cathode) and surface moisture (electrolyte).

Central Moloney has demonstrated that its **zinc epoxy primer** paint system exceeds the requirements of Salt Spray in C57.12.28 after 3000 hours of exposure. Will you actually get this kind of protection in the field? You bet. Strict adherence to time proven paint procedures and detailed quality control checks ensures the three-phase padmount transformer you receive from Central Moloney is the most trouble free product available in the industry today.



distribute the total weight of the core/coil assembly across its entire length. The coil blocks are retained by a rigid one-piece bottom/side frame. A one-piece frame top ties the two frame sides together to form a superior rigid structure. Insulated lead supports are connected directly to the frame to give excellent lead bracing. The frame assembly (frame, coils,

NOW YOU'VE GOT IT

COMPONENTS

For the ultimate in value and reliability, the Central Moloney Components Operation produces the majority of the components used on Central Moloney's three-phase padmounted 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 primary and secondary bushings, primary switch, dual voltage switch, tap changer, current limiting fuse holders, drip shields, etc. will have the Central Moloney logo of quality on them.



PRODUCT FEATURES

Three-Phase Padmounted Transformers

Central Moloney, Inc. produces three-phase padmounted distribution transformers, oil filled, 45 kVA and above, up to 34.5 kV voltage class. Our three-phase padmounted distribution transformers are designed and manufactured in compliance with all applicable ANSI and RUS industry standards for installation on three-phase underground systems.



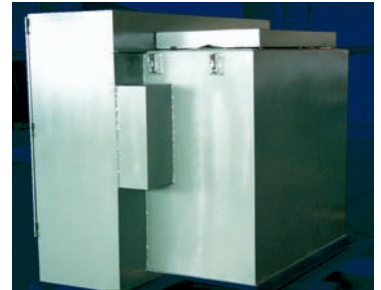
Recessed handle closed.



Recessed handle open.



3-point latching mechanism.



Handhole with tamper-proof cover.

STANDARD FEATURES & ACCESSORIES

- Cabinet secured to tank with 300 series stainless studs
- Removable doors and sill
- Three point door-latching mechanism with penta head bolt
- Steel barrier separating high and low voltage compartments
- Access to high voltage compartment via penta head bolt(s)
- Tank equipped with four (4) lifting lugs
- Jacking provisions
- Tank and cabinet painted Munsell 7GY3.29/1.5 Green
- Zinc epoxy primer
- High voltage bushings are externally clamped universal wells
- Low voltage bushings are externally clamped with ANSI spades
- Removable neutral ground strap on low voltage neutral bushing
- One-inch oil fill plug
- Drain valve with sampling device
- 25°C liquid level plug
- Automatic pressure relief valve
- Externally operated H0 Disconnect (WYE-WYE)
- Accessory parking stands (Dead-Front Only)
- Door stop rods
- Tank grounding provisions (1 in HV, 1 in LV)

OPTIONAL ACCESSORIES

- Draw-out expulsion fuses with isolation links or internal expulsion fuses
- Non-metallic drip shield
- Draw-out full range current limiting fuse
- Internal partial range current limiting fuse with internal or draw-out expulsion fuses
- Draw-out, non-loadbreak current limiting fuses, with interlocking loadbreak switch
- Loadbreak or non-loadbreak high voltage bushing inserts
- Integral high voltage bushings
- Low voltage bushing connectors or non-standard ANSI spades
- Dual voltage switch
- Delta-WYE switch
- Tap changer switch
- Loadbreak sectionalizing switch
- Pressure/vacuum gauge
- Temperature gauge
- Liquid level gauge
- Handhole(s) with tamper-resistant cover
- Additional support for low voltage spades

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

TESTING

Our three-phase transformers undergo rigorous testing outlined by IEEE/ANSI Standards.

These tests include:

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

QUALITY ASSURANCE

Central Moloney's quality management system has earned ISO-9001 certification. ISO certification at Central Moloney provides the basis for control and continuous improvement. We believe that making quality products requires the full understanding and commitment of each employee. Employees are made aware of the company objectives and quality policy by training, quality assurance procedures and quality audits.



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COMPANY HISTORY

A company with unlimited vision. No end to potential, unlimited achievement, unrestricted paths, wide-open horizons, promises fulfilled. Independence, confidence, and innovation...you're on to something... **Central Moloney, Inc.**

Central Moloney, Inc. is a leading manufacturer of oil-filled electrical distribution transformers and related component parts with headquarters in Pine Bluff, Arkansas.

Central Moloney, Inc., as the name implies, is a company rich in tradition that grew from the merger of Central Transformer Corporation and Moloney Electric in 1965. Colt Industries, whose name was later changed to Coltec Industries, acquired the Central Moloney Transformer Corporation in 1968.

In 1994, senior management of Central Moloney Transformer acquired the company from Coltec Industries. The year 1996 was an especially important year for the company as the firm was converted to an ESOP corporation, thereby giving partial ownership to all salaried employees. Local employee management combined with ESOP ownership has created a work environment second to none. Central Moloney employees are committed to success through superior customer service.

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.



Customer Service

Call us at (870) 534-5332 **OR** Fax us at (870) 543-6560 **OR** E-Mail us at vhamilton@centralmoloneyinc.com

Central Moloney, Inc.

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