

# Submersible Transformers



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

## Product Data Sheet

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### Introduction

Central Moloney, Inc. manufactures a complete line of single-phase submersible transformers, including subway and vault-type, for a multitude of requirements. Our submersible transformers are designed and manufactured in compliance with ANSI Standard C57.12.32-1994 (or latest revision) and/or customer specification.

### Application

The submersible product line is designed for frequent or continuous submerged operation. Central Moloney's submersible transformers are installed completely underground, which allows front lot construction with easy and less expensive accessibility.

### Corrosion Protection/Finish System

Six important steps are used in giving Central Moloney's Submersible transformers a complete protective coating. This process is used on all units and guarantees exceptional protection under typical submersible operating conditions.

The tough, durable paint finish system consists of electrostatically applied polyester powder paint with a urethane topcoat that provides years of dependable service in the most demanding environments.



### Product Scope

- 15 kVA through 500 kVA
- Primary voltages through 19920 kV 150 BIL
- Secondary voltages through 600 V
- 55°C rise rating

### 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
- Induce
- Polarity
- Ratio
- Other tests as required by customer or specification

## Quality

Central Moloney products are manufactured with precision and control that assures all industry and customer specifications are met. Our quality management system has earned ISO 9001:2000 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.

## Standard Features

- Meets or exceeds latest applicable ANSI and NEMA standards as applicable
- Shell-form core designs
- Mild steel construction
- Welded cover and tank construction is standard
- All coils are wound with adhesive coated Kraft layer insulation
- 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
- Molded polymer high voltage bushing wells
- Molded polymer low voltage bushings with threaded studs or spade termination
- Continuous welding of lifting lugs and ground bosses
- Low voltage grounding provisions
- Low voltage bushing ground strap on one bushing units
- Automatic pressure relief valve to safely relieve internal pressure
- Mineral oil with inhibitor
- Tank grounding provision
- Tank grounding connector when required
- Laser-engraved stainless steel nameplate
- KVA marking on tank

## Optional Features, Accessories and Design Features

- Total 409 or 304 series stainless steel designs are available
- Lightning arrester internally mounted under oil
- Current limiting fuses
- Bayonet fuses
- Loadbreak switches
- High voltage inserts
- Banded cover
- Molded polymer low voltage bushings with cable leads made to customer's specified length
- High voltage taps are available
- Dual high voltage switch with external operating handle
- Low voltage circuit breaker on self-protected units with internal block mounted high voltage expulsion fuse(s)
- Interlaced low-voltage windings
- Emergency overload reset handle (available only on self-protected transformers)
- Custom stenciling and labeling
- FR3 Envirotemp fluids
- NEMA TP-1 compliant designs
- DOE Efficiency Ruling compliant designs by 2010



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*Call us for more information about our products and services.*

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