



# MOLONEY ELECTRIC INC.

## SINGLE & THREE PHASE SUBMERSIBLE TRANSFORMERS



**Moloney Electric** designs and manufactures a wide range of **Single & Three Phase Submersible Transformers** to suit virtually any application. All units meet or exceed ANSI/IEEE C57.12.23 and C57.12.24. This product sheet lists many of the standard features and benefit, but for complete details regarding your specific requirements, please contact us or your local Moloney Electric representative.



### FEATURES & BENEFITS

◆ **Rugged Construction** - Tanks are available in high quality mild steel or copper bearing steel. Optional stainless steel tanks are also available in grades of 304L or 316L. Typical material thickness of steel parts are as follows:

**Tank** - up to 5/16" thick

**Cover** - up to 1/2" thick

**Bottom** - up to 1/2" thick

**External Cooling** (if required) - up to 5/16" thick panels or 12 gauge (.105") radiators

**Base Bars** - Bar or channel styles available

**Lifting Lugs** - Sized per transformer weight with same material as tank

◆ **Durable Coatings** - A wide range of superior coatings are available. Typical standard coating is a powder coat paint finish. Other coatings which meet C57.12.32 are available. A special anti-corrosion finish (asphalt saturated) is available on request for the base. Steel surfaces are sand blasted as per SSPC-SP6.

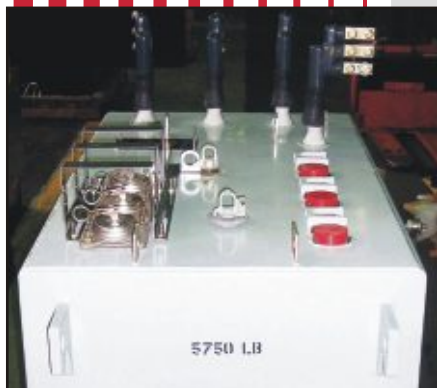
◆ **Convenient & Secure Tank Access** - Covers can be welded or bolted and supplied with either a welded or bolted access plate. Manhole flange design options include blind-tap arrangements and through-bolting arrangements.

◆ **Extensive Range** - Units are available up to 34.5 kV, with three phase up to 4000 kVA and single phase up to 1000 kVA.

◆ **Enhanced Protection** - Primary protection options include:

- Bayonet fusing
- Bayonets and under-oil partial range current-limiting fusing (2 fuse system)
- Full range current limiting fuse in dry-well canisters
- Primary fuse protection can be provided in styles suitable for cover mounting or sidewall mounting. An internal wall mounted LV breaker is available for secondary protection on single phase and small three phase units.

◆ **Choice of Primary Disconnect Switching** - Under-oil loadbreak switches rated up to 600A, 150 kV BIL are available in both 2 and 4-position configuration. Switches can be interlocked with primary fusing upon request.



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## SUPERIOR DESIGN FLEXIBILITY

In order to best meet your specific requirements, we offer one of the industry's most extensive ranges of options and custom design features:

- **Tap Changer & Dual Voltage Switches** - A switch with a thermoplastic hookstick handle is available. On three phase units, the switch handle can be supplied inside a pipe with a protective cap or plug. Switches are available for cover or wall mounting.
- **Low Voltage Terminations** - Bushings designed for welding or bolting to the tank wall or cover are available. LV neutral can be welded through the tank wall or cover, or it can be supplied as a fully insulated bushing.
- **High Voltage Terminations** - Available options include 200A bushing wells with removable studs (welded or externally clamped), 600A apparatus bushings (welded or externally clamped), and cable entrance fittings (wiping sleeves).
- **HV Fusing Options and Load Break Switches** with mechanical interlock
- **LV Breakers**
- **Insulating Oil** - Mineral oil which meets ANSI requirements is standard. Various less flammable fluids are also available.
- **Oil Fill, Drain & Sampling Accessories**
- **Oil Level & Oil Temperature Gauges** (with or without contacts)
- **Pressure Relief Devices**
- **Air Test Accessories**
- **and many more...**



### Moloney Electric Vision Statement

To be recognized as a reliable supplier of transformers, whose committed team of knowledgeable employees consistently meets the expectations of our customers and shareholders

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