



3D Oil-emmersed Hermetically Sealed Transformer

Employing the world's latest 3D wound core design and manufacturing technology available, TME is proud to introduce its range of innovative energy saving 3D distribution transformers. TME is the first in ASEAN to manufacture this type of oil-immersed hermetically sealed 3D distribution transformers which features technologically advanced 3D wound core construction, ideal symmetrical delta-shaped (3D) core and coil layouts which achieves the following technological advantages:

- Balanced 3 phase system
- Lower losses (in "Silver" and "Gold" energy saving models)
- Reduced no load (a.k.a. reactive or excitation) currents
- Reduced vibrations

Product range of Oil-immersed hermetically sealed transformer

No. of phase	Frequency	Primary voltage	Rated power
3 phase	50 Hz	22, 24 up to 36 kV	315 - 3000 kVA



Oil-immersed Hermetically Sealed Transformer

Employs the latest wound core technology from Japan, with high quality enamel coated copper conductor windings utilized in both sides of the coil. Transformer mineral oil is used as an electrical insulation and to assist in heat dissipation inside the completely sealed transformer tank. The transformer tank walls are of corrugated panel type to increase the cooling surface area for the transformer mineral oil. The transformer is also equipped with a Pressure Relief Valve to release excessive pressure build-up inside the transformer tank to prevent the transformer tank from being deformed.

Product range of Oil-immersed hermetically sealed transformer

No. of phase	Frequency	Primary voltage	Rated power
3 phase	50 Hz	up to 36 kV	50-3000 kVA

Can be designed and manufactured to any special requirements



Oil-immersed Conservator Tank Transformer

Employs the latest technology with high quality enamel coated copper conductor windings utilized in both sides of the coil. Transformer mineral oil is used as an electrical insulation and to assist in heat dissipation inside the transformer tank. A conservator tank is installed to accommodate the expansion of the transformer mineral oil which makes this transformer design suitable for large, higher capacity (kVA) transformers which use higher volumes of transformer mineral oil. Air in the conservator tank is allowed to escape or be re-introduced to maintain transformer tank pressure equilibrium via a dehydrating breather – a filter where a combination of silica gel and transformer mineral oil traps moisture and dust. High efficiency ventilating radiator fins are attached to the transformer tank which can bear the heavy weight of the transformer mineral oil. The transformer is also equipped with standard protection equipment such as a Buchholz Relay (a gas and oil actuated safety device which detects and warns of transformer faults), a Thermometer (which detects and warns of excessive temperature increases) and a Pressure Relief Valve (which releases excessive pressure build-up inside the transformer tank to prevent the transformer tank from being deformed).

Product range of Oil-immersed conservator tank transformer

No. of phase	Frequency	Primary voltage	Rated power
3 phase	50 Hz	up to 36 kV	750-10000 kVA

Can be designed and manufactured to any special requirements



Automatic Voltage Regulating Transformer

A transformer which has an incorporated device that automatically maintains required (secondary) voltage at the pre-determined level even when supplied (primary) voltage fluctuates. Employs the latest technology with high quality enamel coated copper conductor windings utilized in both sides of the coil. Transformer mineral oil is used as an electrical insulation and to assist in heat dissipation inside the transformer tank. The transformer is also equipped with standard protection equipment such as a Buchholz Relay (a gas and oil actuated safety device which detects and warns of transformer faults), a Thermometer (which detects and warns of excessive temperature increases) and a Pressure Relief Valve (which releases excessive pressure build-up inside the transformer tank to prevent the transformer tank from being deformed).

Product range of Automatic Voltage Regulating transformer

No. of phase	Frequency	Primary voltage	Rated power
3 phase	50 Hz	up to 36 kV	315-3000 kVA

Can be designed and manufactured to any special requirements