OIL IMMERSED TRANSFORMER

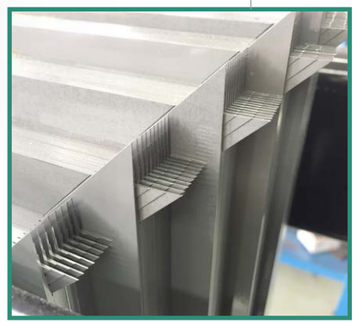
BENEFITS OF OIL IMMERSED TRANSFORMER

- Moisture-proof , salt spray-proof and anti-corrosion design, C5-M Marine paintings, specific coating treatment and use of surface can be hot dip zinc coating to withstand the most extreme environmental conditions.
- Strong resistance to sudden short circuits.
- 7-step stepping lap iron core structure.
- High-Temperature Resistant Insulation System.
- Oil conservator: hermetically sealed or conservator/free breathing.
- Cooler corrugated wall or with radiators.
- Fluid options available，Mineral Oil - Natural Ester Fluid (FR3 fluid)- Silicone etc.
- Special anti-loose structure, no internal looseness during transportation.
- The Tank withstanding pressure up to 115kPA comply with FM3990 requirements.
- All transformers can be designed, customized, and supplied with a wide variety of accessories, as required.
- Adopted isolation valve, the transformer is easy to maintenance and convenient in transportation.
- Below 10MVA transformer, we can meet various small-volume requirements and container transport.

TECHNICAL CHARACTERISTICS

Main Specification

Transformer Type	Oil immersed
Rated capacity	Up to 40MVA
Rated voltage	Up to 132kV
Frequency	50 or 60Hz
Phase	Single phase and three phase
Winding material	Copper or Aluminum
Tap changer	Off-load or on-load
Vector group	Dyn11, YNd1d1, Yyn0, YNd11 etc.
Cooling	ONAN , ONAF, KNAN, KNAF etc.
Ambient temperature	-45° C +60° C
Insulation class	A, E, B
Dielectric fluids	Mineral oil , Silicone, FR3 oil , MIDEL 7131
Standard	IEC, AS, EN, IEEE/ANSI, GOST



PRODUCT FEATURES

Iron Core
Superior silicon lamination for steel core, the lamination joint is processed by oblique cut angle and the latest new technology “seven-step”, which ensures small no-load loss and current.

Winding
The winding as the centerpiece of the transformer must be especially protected - both against high electrical stress due to external over voltages and against mechanical overloads by short circuits. Varelen transformers are systematically designed to meet these requirements.

PROJECTS

Country: Australia

2500KVA Mining transformer for mining industry

Oil-filled transformer type has side mounted cooling radiators, which are removable using radiator isolation valves. makes them easy to transport, with low operation and maintenance costs over their life span.

Country： Bosnia and Herzegovina

15MVA transformer for offshore solutions

15 MVA 66/11KV transformer adopt anti-corrosion design, Marine painting C5-M，Tank with hot dip galvanized the transformer are designed withstand from extreme weather conditions to corrosive conditions.

15MVA 33kV Liquid-filled transformers are ideal solutions，Made for durability in salt mist environments.
Environmentally friendly and fire-safe ester insulation liquid.
High-temperature insulation material.

Their reliable, energy-efficient, and compact construction is well suited for installation in wind projects.

Country： Vietnam

Earthing transformer

An earthing transformer (neutral coupler) is a three-phase transformer connected to the power system to provide a neutral connection for earthing, either directly or via impedance. The earthing transformers may in addition supply a local auxiliary load.

Oil immersed earthing transformer, the design have Variable shape,terminal box can design from top also can from side.the Neutral bushing can be also in the same terminal with HV.

Zigzag earthing transformer short circuit current : 25A-2000A/10s. 30s .60s. 2 Hours As Optional.

Country： Chile

Pad mounted transformer

We are able to achieve compact design with 3D Modeling and high efficiency Substation Power Transformers with Hib grade silicon steel and special type design that is to be easy transportation and installation.
Pad-mounted transformers are widely used in applications ranging from commercial buildings to residential developments. These highly compact and flexible transformers can be installed almost anywhere, even in harsh weather conditions.