OIL-IMMERSED TRANSFORMERS

Varelen Electric Co., Ltd is a technological innovation-based enterprise with a long history, owning a manufacturing base in Changsha, Hunan province, South China. We specialize in manufacturing various kinds of transformers and substations for mines, residential houses, commercial buildings, power supply, integrated power-driven devices, reactors, and so on. We have close cooperation with customers in Spain, Germany, Italy, South Africa, Latin America, etc. With the core brand "Varelen" and the philosophy "Integrate art into product, apply technology to life", we are moving towards being an excellent enterprise.

BRIEF INTRODUCTION

Varelen Electric Co., Ltd.
Add: Xiaoduopu Industry Park, Jinzhou South Road, Ningxiang, Changsha City, Hunan, China.
Zip Code: 410600
Tel: +86 731 8435 1029
Email: sales@varelen.com
Mobile: +86 13873121822
Fax: +86 731 84371029
Http://www.varelen.com
Skype: varelen.cn
Varelen

PRODUCT OVERVIEW

General
As an ISO9001 2008 certified company, VARELEN offers a complete range of distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial and commercial applications. Our oil immersed transformers are manufactured in accordance with the most demanding industry and international standards. Transformers can be used for indoor or outdoor applications and can be provided with off load tap changer.

Why VARELEN:
- 25 years experience R&D team, derived from a 60 years of history transformer factory in Changsha city of China.
- Various choices for customers based on full range of transformer types.
- Customized transformers with special functions are available.
- Varelen is one of the members who drew up the Chinese National Standard for Explosion-proof Mobile Substation for Mining

Main Specifications:
- Transformer type: Oil immersed type
- Phase: Three phase Single/Three phase
- Capacity: 50kVA-2500kVA, up to 35kV / customization is available, up to 15MVA
- Frequency: 50/60Hz
- Coolers: corrugated wall or radiator
- Cooling mode: ONAN / ONAF
- Oil preservation: Hermetically Sealed / Conservator / Free Breathing
- Tap changer: off load on or on load
- Available fluids: Mineral oil / Dimethyl Silicone / Vegetable Oil
- Winding materials: Aluminum / Copper
- Low noise solution
- Efficient transformers with reduced losses
- Advanced equipments
- Packaged with of wooden case
- 3D package for drawings
- Standard: IEC60076

Tests
- Installation resistance
- Resistance for all windings
- Check voltage ratio and vector group
- No load test at rated frequency and rated voltage
- Impedance test
- Withstand voltage test
- Induced over-voltage withstand test
- Partial discharge measurement
- Oil leakage test

Product Features

The iron core
Whatever the raw materials, the design, or the production process of the iron core, Varelen adopts the latest state of technology for it. The silicon steel sheet used to grain oriented, cold rolled and insulated on both sides. guaranteeing low losses and noise and these values are even improved by laser treatment. Numerically controlled cutting machines provide for careful treatment in the cutting process in order to avoid mechanical tension in the core and thus unwanted properties right from the beginning. Standard use of step-lap cutting additionally reduces the noise, no-load and load losses.

The 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. The windings are made of copper or aluminum. Low-voltage windings are made of strip or flat wire, and the high voltage windings are manufactured from round or profile wire. “diamond-dotted paper” bonds the winding into a compact block while drying and increases the short circuit capacity accordingly.

The Tank
Whatever during transport or operation - the tank must be absolutely tight under mechanical stress. Preconditions to achieve this are constructional experience, the most modern calculation methods and high-quality welding work. Special attention is paid to corrosion protection. Pretreatment of the surface is processed by phosphating pickling; contributes to corrosion protection, just like multi-coating with presel drying times for each layer. On request, hot dip galvanization provides for even better protection.