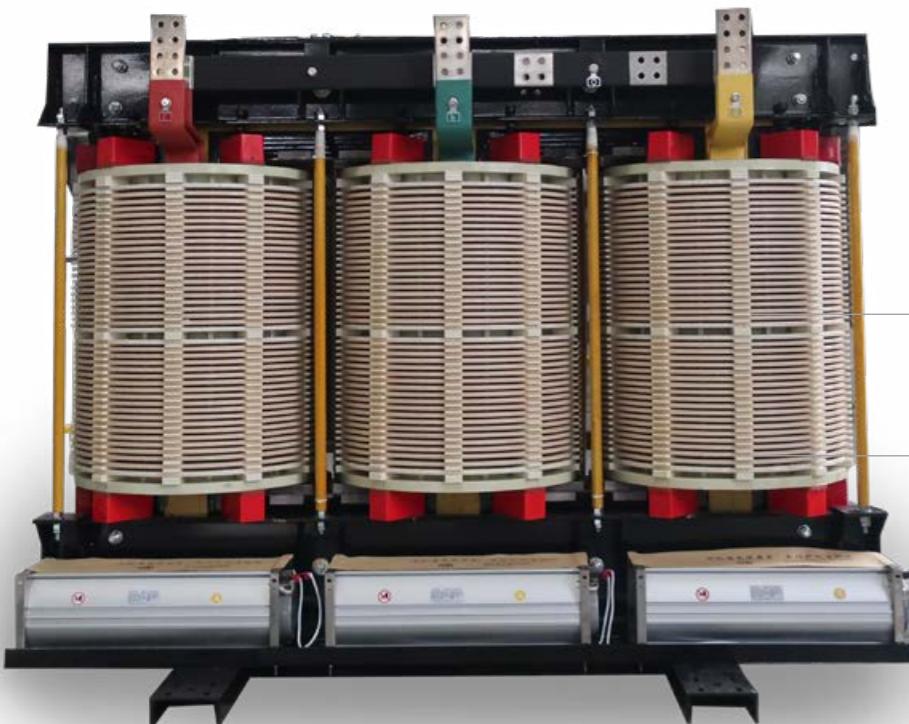


VPI DRY TYPE TRANSFORMER



layer winding



disc winding



VACUUM PRESSED IMPREGNATION TECHNOLOGY

- Integrated HV and LV winding increase mechanical strength and short circuit resistance by vacuum pressed impregnation technology.
- Adopted Insulation material C-class Dupont Nomex paper, plus oxygen-copper winding, ensure lower partial discharge, no-load and load loss, and low temperature rise.



BENEFIT OF VPI TRANSFORMER

- High-tech VPI (vacuum pressure impregnation) processing for coil, then high temperature curing, highly insulated, dust-proof & moisture-proof.
- Better moisture proof, dust proof, lightning shock resistance.
- Low noise, Low Loss, strong short-circuit resistance.
- Low temperature rise, long life.
- Disc winding with excellent Short-Circuit Strength and Improved Cooling Efficiency.
- Core is made of superior silicone steel, outstanding performance of magnetic conduction. Joint is processed by 45° oblique angled technique and new technology seven step core, with low loss and low noise.



TECHNICAL CHARACTERISTICS

Main Specification

Transformer type	Three phase, VPI dry type
Frequency	50 or 60Hz
Rated capacity	Up to 10000kVA
Rated voltage	Up to 33kV
Insulation class	H,C
Winding material	Copper, Aluminum
Cooling mode	ANAN, ANAF
Vector group	Dyn11, Yyn0 etc.
Protection Class	IP00 - IP56
Standard	IEC, AS, EN, IEEE/ANSI, GOST



VPI DRY TYPE TRANSFORMER FOR MARINE&OFFSHORE

- Varelen transformers for marine application are designed, manufactured, and approved by marine standards --Bureau Veritas, Anti-corrosion and anti-salt spray, Protection from the harsh marine environments.
- Marine VPI Dry type transformer adopts special anti-vibration measures.
- Ship transformer meeting the severe environment of ships that requires high reliability such as vibration resistance, salt resistance, etc.
- An AFWF(forced water cooling type transformer technology is used considering the fact that the temperature in transformer stations is high due to the characteristics of ships.
- We have secured ship class certification BV.





PROJECTS



◀ Country: Canada

Medium voltage VPI dry type Transformer

Standard: ANSI
Efficiency: 99.41%

VPI Dry type transformer adopts Vacuum Pressure Impregnation (VPI) insulation system that ensures excellent dielectric strength, moisture resistance, and long-term thermal stability — ideal for indoor and heavy industrial environments.

With Qualitrol monitoring equipment to ensure reliable power. Gain real-time oversight of your operations with actionable insights into compliance, equipment performance, and risks.

▶ Country: Denmark

Dry type phase shifting transformer for wind power projects

Dry type transformer, variable frequency 16.5-28.6Hz. The variable frequency rectifier phase shift transformer is specifically designed to provide multiphase rectified power for medium and high-voltage frequency converters. Supported by DuPont Nomex insulation, the rectifier is suitable for a wide range of medium to high voltage inverters, effectively filtering harmonics, protecting motors, dissipating heat, and preventing flames.



▶ Country: Italy

36 pulse output for 13.8KV variable frequency converter systems

Dry Type Phase shift transformer, 36 pulse output for 13.8KV variable frequency converter systems. Multi-phase units available, 6,12, 18, 24, 36, 48 pulse Bridge

VPI Dry Type transformer With electromagnetic and structural optimization design, small size and lower noise. Good solution to harmonic influence: Reaching up to maximum 27 phase for secondary winding in result a great reduction of the harmonics influence on the power grid and other equipment.

Multi pulse rectifier transformer, Multi-phase power supply for Variable Frequency Drives. Frequency Inverter. High Voltage Rectifier, and installed in Power Plant. Boiler Fan. Coal. Mining. Petroleum. Steelworks and Water-supply System etc.



◀ Country: Russia

24 pulse VPI dry type phase shift transformer for MV Drives

Our dry type transformer are very safe compact, energy-efficient and sustainable. VPI dry type transformer Made of Class C insulation materials with big running temperature rise margin, strong overload capacity, high fire resistance, good thermal stability and long service life.

Made of high-performance silicon steel sheet material and lower magnetic flux density design so as to withstand over-voltage and harmonic influence unsaturated. phase shift rectifier transformer Maintenance-free fastening body structure, keep reliable in the long-distance transport and operation. Multi-Pulse transformers are designed specifically for inherent harmonics, voltage distortion and other unique characteristics associated with drive systems. They provide required supply voltage with the desired phase angle between secondary voltages for VFD systems/ converters.