



Power Technology Perfect & Precise

DRY TYPE TRANSFORMERS



**Indian Transformers and Electricals Pvt. Ltd.
Gurgaon**

ITE-Gurgaon manufactures Dry Type Transformers upto 3MVA; 33KV class as per Indian & International Standards i.e. IS, IEC & ANSI etc. Our transformers are design to withstand high humidity, temperature, adverse service conditions & short circuit levels & all these make our products an ideal choice. Designing, selection of raw materials, state of the art – Casting Plant, in house testing facility & highly experienced manpower make our products very reliable & cost competitive.

TECHNICAL SPECIFICATIONS

- Ranging up to 3000 KVA .
- Up to 33 KV class .
- Three Phase , 50 / 60 HZ .
- Single / Dual Ratio .
- Naturally Cooled (AN) or Forced Air Cooled (ANAF).
- Conventional or Multi - tap Construction .
- Sheet metal enclosure with vents with air circulation IP 23 or as per as customer requirement .
- Accessories / Fittings as desired by customers .
- Cast Resin or as specified by the customers .
- Insulation Class F / H , others on request .
- Applicable standards IS : 11171 , IEC : 60726 .
- Tap Changer :Off-Circuit / Tap Link / On Load Tap Changer (OLTC) with RTCC panel (as per customer requirement) .
- Temperature Sensors for alarm trip protections .

ADVANTAGES

Maintenance Free

Due to encapsulation of coils with cast resin the coils dimensions are stable & no coil tightening is required to maintain the short circuit strength. Also no check of oil level and electrical insulation/oil is required. This leads to saving in cost on account of maintenance.

Non- Hygroscopic

In cast-resin dry-type transformers, the complete encapsulation of primary and secondary winding in epoxy resin prevents penetration of moisture into windings. The cast resin offers very good protection against adverse ambient conditions. These transformers can work without disruption of service at 100% humidity.

Hardly inflammable and self extinguishing

Due to high quality insulation material the transformer is practically non-inflammable by an electrical arc, special fire protection measures are not required.

Resistant against temperature Fluctuation

The insulation material used is glass fibre reinforced with epoxy resin of class 'F' which can withstand wide temperature variation.

Higher Impulse Strength

Contrary to the conventional dry type transformers the cast coil transformers are better in respect of impulse voltage withstand strength.

Higher Short Circuit Strength

Higher dynamic short circuit withstand strength as compared to oil immersed and conventional dry type transformers because of fibre glass reinforced epoxy encapsulation.

Free of partial discharge's

No partial discharges can occur during operation.

Instant Switching

Due to the high grade insulation material, coils are non hygroscopes & the transformer can be switched on directly without pre-drying even after a long period of service interruption.

No leakage or Pilferage of Oil

As cast resin transformers are solidly cast, problem associated with oil filled transformers like oil leakage and pilferage of oil is completely avoided.

Saving in Space

These transformers are generally smaller in dimensions and lesser in weights. The construction and installation cost for the sub-station can be reduced by adopting dry type transformers.

Eco-friendly

Since no oil is used in these transformers, there are no chances of contamination of ground water due to oil leakage.

Saving in Civil work cost and LT cables

Without fire or danger of explosion, it is possible to place the transformers near to the load centre. Also, these transformers do not need construction of special fibre brick walls or oil pits, which reduces the overall civil works. Additionally, since LT cables are not required, there is also saving in cost on account of expensive cable laying works.

APPLICATIONS

- Public and High rise buildings .
- Mill application .
- Railway Fixed traction installation, Underground , Cranes , Seaports and Offshore platforms .
- Drives ,Frequency converters and Rectifies to provide complete solution to Pumps ,Fans and Compressors .
- Gas ,Turbines , Generators and Drilling system .
- Solar Application Mining .

PRODUCTS

TRANSFORMERS (OIL/DRY) | VCBs / LBS | VOLTAGE CONTROLLERS / AVR's | PANELS | COMPACT SUB-STATIONS

APPROVALS & REGISTRATIONS ✦ E-in-C (Defence) ✦ MAP ✦ Railways ✦ BSNL ✦ MTNL & more



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