

Energising India since 1969...



**TECHNICAL
ASSOCIATES
LIMITED**

An ISO 9001 : 2008 Company

Dry Type Transformers



WE TRANSFORM THE NATION'S POWER

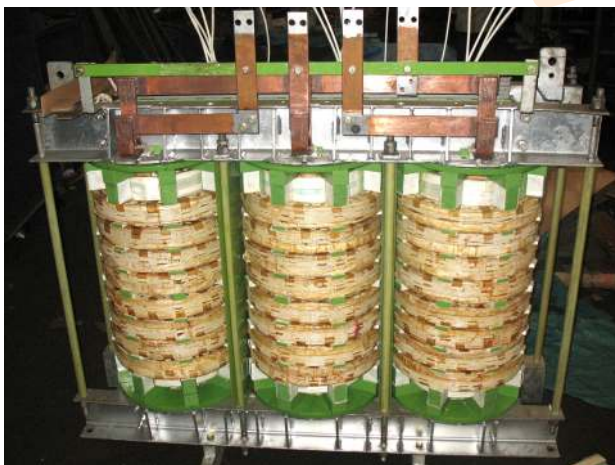
VACUUM PRESSURE IMPREGNATED (VPI) TRANSFORMERS

SPECIFICATIONS



- Standards: BIS / IEC / ANSI C57.12.01 / IEEE & IS 1117.
- Rating: Up to 5000 KVA.
- Voltage Class: 11 KV.
- Frequency: 50 Hz. or as per customer's requirement.
- Insulation Class: Class 'F' / Class 'H' / Class 'C'.
- Winding Material: Electrolytic Copper.
- Indoor or Outdoor application.
- Tap Types: Off Circuit Tap Links / On Load Tap Changer.
- Enclosure Protection: IP21 / IP33 / IP43 / IP00 & Non ventilated.
- Termination: Bus Bars (Standard), Cable Boxes (on request).
- Cooling: AN (Neutral) / AF (Forced).

SALIENT FEATURES

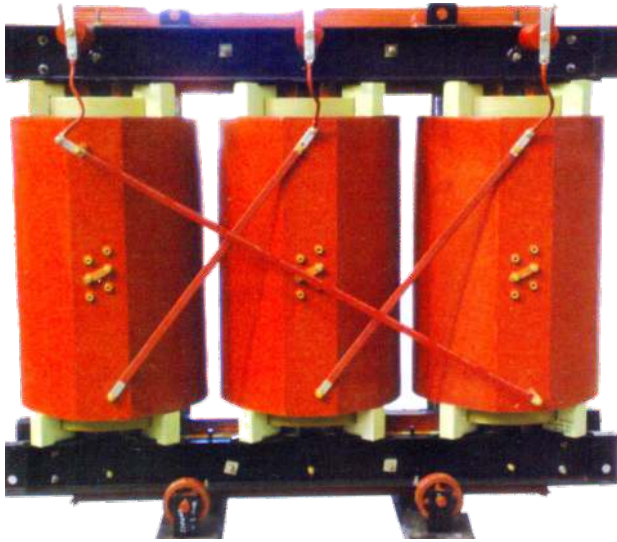


- High Dynamic Short Circuit & Mechanical Strength.
- Good Impulse Withstand Strength.
- Low Partial Discharge- VPI process ensures void free insulation system.
- Resistance to Temperature Fluctuations.
- Moisture ingress resistant & immune to polluted atmosphere.
- Ease of maintenance.
- Environment friendly.



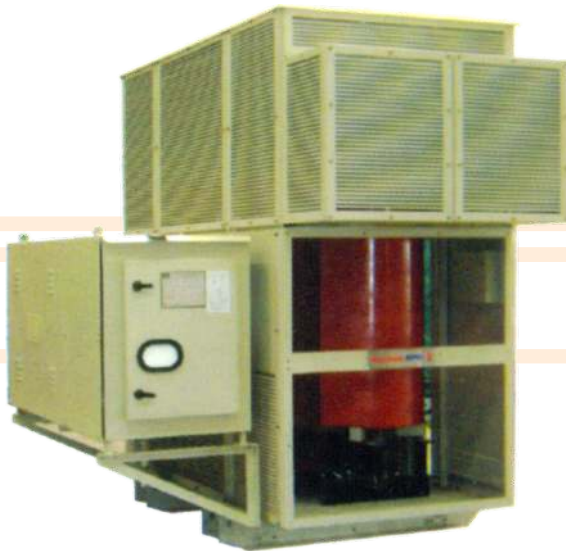
CAST RESIN TYPE (CRT) TRANSFORMERS

(In Technical Collaboration with M/s Federal Transformers, Abu Dhabi, U.A.E.)



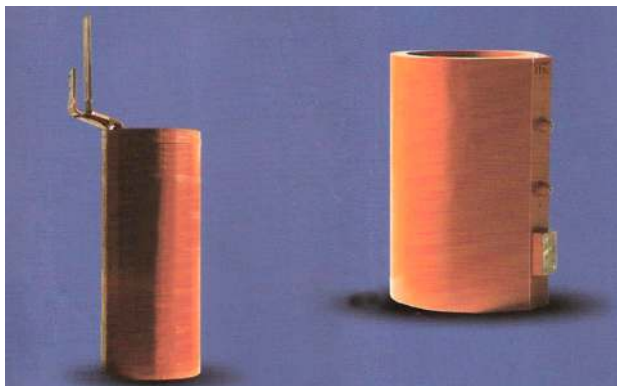
SPECIFICATIONS

- Standards: BIS / IEC / ANSI C57.12.01 / IEEE & IS 1117.
- Rating: Up to 5,000 KVA.
- Voltage Class: Up to 36 KV.
- Frequency: 50 Hz. or as per customer's requirement.
- Insulation Class: Class 'F' / Class 'H' / Class 'C'.
- Winding Material: Copper or Aluminium foil.
- Indoor or Outdoor application .
- Tap Types: Off Circuit Tap Links / On Load Tap Changer.
- Enclosure Protection: IP21 / IP33 / IP43 / IP00 & Non ventilated.
- Termination: Bus Bars (Standard), Cable Boxes (on request).
- Cooling: AN (Neutral) / AF (Forced).



SALIENT FEATURES

- High Dynamic Short Circuit & Mechanical Strength.
- Good Impulse Withstand Strength.
- Low Partial Discharge.
- Resistance to Temperature Fluctuations.
- Moisture ingress resistant & immune to polluted atmosphere.
- Ease of maintenance.
- Environment friendly.
- Type Tested at KEMA, Netherlands.





ADVANTAGES OF DRY TYPE TRANSFORMERS

- These Transformers are safe, eco-friendly, fire-resistant, explosion proof, easy to install and easy to maintain beside being better in appearance.
- Moisture ingress resistant & immune to polluted atmosphere.
- Resistance to temperature fluctuations.
- Good impulse withstand strength.
- High dynamic short circuit & mechanical strength.
- Less space and civil work needed.
- Special safety features are not required.
- Longer transformer life due to low thermal and dielectric ageing.

APPLICATION AREAS OF DRY TYPE TRANSFORMERS

These Transformers are suitable where safety, reliability and low noise level are of the prime concern like:

- Airports
- Electronics Industries
- High Rise Buildings
- Metro Railways
- Nuclear Stations
- Power Plants
- Steel Plants
- Stadiums
- Textile Plants
- Chemical Plants
- Hospitals
- Hotels
- Material Handling
- Oil Plants
- Ports
- Ships
- Software Parks
- Theaters & Multiplexes etc.

COMPARISON BETWEEN OIL IMMERSED & DRY TYPE TRANSFORMERS

Characteristics	Dry Type Transformers	Oil Immersed Transformers
Fire Hazard	No	Yes
Proximity to load center	Very High	Low
LV cabling cost	Low	High
Relative combustible material content	Low	High
Suitability for indoor use	High	Low
Suitability for outdoor use	High within enclosure	High
Class of insulation and permissible winding temperature rise	F- 90°C	A- 55 °C
Suitability in low ambient temperatures	Up to - 25 °C	Up to - 5 °C
Suitability for higher ambient temperatures	High	Low

APPROX. DIMENSIONS OF DRY TYPE TRANSFORMERS

Sl. No.	Rating (KVA)	Overall Dimensions (in mm)			Total Weight (in kg)
		Length	Width	Height	
1.	250	1700	1500	1530	1800
2.	315	1680	1700	1700	2250
3.	400	1700	1750	1750	2300
4.	500	1780	1760	1820	2425
5.	630	1840	1820	1990	2590
6.	750	1990	1910	2020	2720
7.	1000	2040	2100	2140	3400

Note: These are approx. overall dimensions, weights of dry type transformers and may vary as per actual transformer.



FM 561794
An ISO 9001:2008 Company

Technical Associates Limited

Lucknow Plant (Corporate Office)
8th Km., Faizabad Road, Ismailganj,
Lucknow 226 016

Phone: +91 (522) 4053600 Fax : +91 (522) 4053601

Sitarganj Plant

B-7, Eldeco Sidcul Industrial Park, Sitarganj,
U.S.Nagar, Uttarakhand - 262405

Phone: +91 (594) 8256032 Fax : +91 (594) 8256031

Email: marketing@techasso.com, Web: www.techasso.com