

CAST RESIN TRANSFORMER (CRT)



GENERAL DESCRIPTION

At Kalpa Elektrikal Pvt Ltd, casting method of these transformers is obtained with the combined action of vacuum and temperature. The casting method makes it possible to assure void-free epoxy penetration of both the inner layer and between turn insulation. These Transformers are specifically needed in the distribution network for feeding basements or stilts of high-rise buildings, hotels, Malls, stadium, airports, chemical, refinery plants, steel & cement industries.

TECHNICAL SPECIFICATION

Construction Type	Indoor/Outdoor
Duty Type	Outdoor / Indoor , Convertor Duty, Special Type
Voltage Class	UPTO 33 kV
No of Phases	1 Phase or 3 Phase
Frequency	50/60 Hz
Capacity	Up to 5 MVA
Vector Group	Dyn1 or Dyn5 or Dyn11 or any other connection as per customer requirement.
Class of Insulation	Class B/F/H with Temp Rise of 70/90/115 Deg C or as per customer requirement.
Tap Changer	Off Circuit or On Load.
Tapping Range	OCTC or OLTC as per customer requirement
Winding Material	Copper
Applicable Standards	IS 11171, IEC 60076
Painting	Powder coated with RAL 7032 shade or as per customer requirement
Degree of protection	IP 23,43 or as per customer requirement.

ASSURED FEATURES

- Windings are electrically balanced to minimize axial short circuit forces
- Coils are held rigidly in place between insulators clamped to the upper and lower core frames under high compression
- Precise casting under vacuum ensuring low partial discharge
- Smooth surface finish and robust construction of MV & LV cast Coils
- Adequate ducts between coils, discs for maximum air flow and reduced hot spot Temperature
- Step-lap designed CRGO laminations for lower losses and excitation current



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STANDARD FITTINGS

- H.V. Cable box.
- L.V. Cable box with bus bar or bus duct
- Off circuit tap links
- Undercarriage with four Bi-directional rollers
- Earthing terminals
- Rating and diagram plate
- Lifting lugs for complete Transformer
- Tapping link operation door
- Enclosure with louver panels
- Canopy
- Base channel – 2 Nos
- The separate neutral bushing on LV side
- Paint: Powder coated With RAL7032 Shade

OPTIONAL FITTINGS

- RTD with A/T contact
- Marshaling box with control wiring
- On Load tap changer
- Forced Cooling arrangement
- Neutral Current Transformer

SAFETY FEATURES

- Environment-Friendly
- Fire Resistance
- Non-Hygroscopic



KALPA ELEKTRIKAL PVT. LTD.

P.B. No. 4413, 149/25, III Main, Industrial Town, Rajajinagar, Bengaluru - 560 010 (INDIA)

Phone: +91-80-23405248, 23303103 Email: sales@kalpaelektrikal.com Web: www.kalpaelektrikal.com