

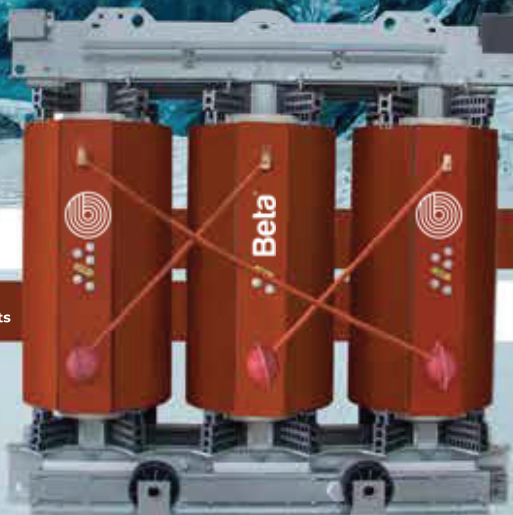
CAST RESIN DRY TYPE TRANSFORMERS



CAST RESIN DRY TYPE TRANSFORMERS

FULL PERFORMANCE IN ALL CONDITIONS

Suitable to operate in environments with
more than 95% humidity, up to -25°C and
at high altitudes



Damproof

Suitable for
Contaminated Environments

Low Noise

Suitable for Humid
Environments

Cast Resin Dry Type Distribution Transformers are specially designed for use in high altitude, high humidity environments and heavy conditions upon their compliance with international standards.

Having no flammable liquid inside, being made of self-extinguishing material provides general environmental safety with its formation, exempt from toxic gas emissions and low electromagnetic emission.

AREAS OF USAGE

The usage areas of Dry Type Transformers are wide. It can be used in distribution systems, co-generation systems, rectifier applications.

Energy Production Facilities

- Wind Power Plants
- Solar Power Plants
- Hydroelectric Power Plants
- Co-generation Systems
- Industrial Applications



Service Facilities

- Hotels
- Schools
- Hospitals
- Banks
- Headquarters
- Stadiums
- Mines
- Shopping and Life Centers



Infrastructure Systems

- Airports
- Ports
- Military Facilities
- Rail systems



General Industry Applications

- Foundries
- Automotive Industry
- Chemical Industry
- Machinery Industry



General Industry Applications

- Induction Furnaces
- Pump Stations
- Vessel Davits
- Ventilation Systems
- Lifting Systems
- Welding Lines
- Underground Transformer Centers





ENVIRONMENTALLY FRIENDLY TRANSFORMER

ECONOMIC

- Longer life (due to low thermal and dielectric aging).
- The most suitable design for development.
(with the possibility of new materials that can be used).
- Provides maximum performance with minimum energy.
- Takes up less space.

SAFE

- Self-extinguishing feature.
- Resistant to the most severe shocks and vibrations.
- Provides high mechanical strength against short circuits.
- High capacity that supports overloads.



ADVANTAGES OF USE

Thanks to its compliance with special and international standards and E2, C2, F1 classes, Dry Type Transformers can be used in high altitude and high humidity environments, especially in severe conditions.

Provides general environmental safety with its non-flammable liquid, self-extinguishing material, exemption from toxic gas emulations, low noise level and low electromagnetic emission.

Availability and Cost

- The need for maintenance is minimal
- No risk of leakage as it does not contain liquid
- On-site maintenance service available
- Can be installed very close to consumer centers
- Transmission and installation costs are low

Lifetime and Durability

- The nominal power of the transformer can be increased with cooling fans.
- Longer service life due to low partial discharge
- Resistant to short circuit and lightning strike due to its high insulation level
- It shows resistance to short term overloads

TESTS

The following National and International tests are carried out in our accredited laboratories for Cast Resin Dry Type Transformers.

Routine Tests

- Measuring winding resistance
- Measuring the voltage conversion ratio and measuring the phase difference
- Insulation resistance
- Measurement of short circuit impedance and loss in load
- Measurement of disengaged loss and current
- Applied Voltage test
- Induced Voltage test
- Partial discharge measurement

Type Tests

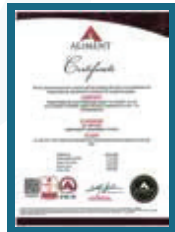
- Temperature Rise Test
- Lightning Pulse test
- Sound level measurement

Special Tests

- Determination of capacity between bobbins and earth via bobbins
- Measuring the zero sequence impedance of three phase transformers
- Short circuit resistance test
- Measuring the harmonics of the disengaged current
- Measuring the insulation resistance of bobbins against earth
- Measuring the power factor (Tangent delta)

OUR QUALITY STANDARDS AND CERTIFICATES

Transformer Electromechanical Cast Resin Dry Type Transformers are manufactured according to the following standards.



- EN 60076 -11: Power Transformers - Part 11: Dry Type Transformers
- IEC 60076 -12: Power Transformers - Part 12: Installation Guide for Dry-Type Power Transformers
- IEC 60076-1: Power Transformers - Part 1: General
- IEC 60076-2: Power Transformers - Part 2: Temperature Rise
- IEC 60076 - 3: Power Transformers - Part 3: Insulation Levels and Dielectric Tests
- IEC 60076 - 5: Power Transformers - Part 5: Short Circuit Resistance Capacity
- TS EN 50588-1: Medium Power Transformers - Part 1: General characteristics

CAST RESIN DRY TYPE TRANSFORMERS



TO VISIT OUR WEBSITE



PRODUCTION OF TRANSFORMERS

Standard Place of Use: Indoor (Internal)
Place of Use with cabin: Outdoor (External)
Tap Changer Type: OLTC / OCTC
Power Range: 40 kVA / 10 MVA
Voltage: up to 52 kV

- Ambient Temperature (° C): -25 ° C / +60 ° C
- Ground Shake: Horizontal acceleration;
Vertical acceleration of 0.5 g; 0.4 g
- Cooling Type: AN / AF
- Environmental Class: E2
- Climate Class: C2
- Fire Class: F1
- Insulation Class: F/H



Beta Enerji ve Teknoloji A.Ş

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