

Application:

Oil-filled transformers have traditionally been the most commonly used option in electrical grids, but a number of issues in relation to the environment, fire hazards, control of leaks and general maintenance, have resulted in the evolution and increased use of dry-type transformers in areas such as shopping malls, public buildings, hospitals, tunnels, banks and other sites.

Two classes of open coil Class H dry-type transformers are available:

Low-Low Typically used to convert low voltages such as 440V/220V or 220V/440V in commercial or industrial buildings with equipment operating at different voltage levels.

Medium-Low: Typically used in shopping malls, buildings and industries where fire hazards must be minimized.

Efficient: They are designed at very low no-load loss levels in order to ensure maximum efficiency performance, which translates into energy savings, and thus to the protection of the environment and a reduction of operating costs.



Scope of the offer

Manufactured in compliance with applicable NTC, IEC and ANSI standards and/or individual customer specifications.

Class H.

Type

Low-Low, Class 1.2 kV
Medium-Low, Class 15 kV

Ratings

Single-phase: 10 kVA to 100 kVA
Three-phase 15 kVA to 1500 kVA

Basic Insulation Level:

Up to BIL 10 kV
Up to BIL 60 kV

Class H dry-type transformers are confined in cells that protect them from weather-related phenomena, with the type of IP protection requested by the customer.

Typical construction mode:

Coils:

- Dry-type transformers are built with circular and rectangular section windings
- The Class H insulation system is designed with Class 180°C materials, enabling it to withstand the temperature rise and overload conditions stipulated by the standard.

Class H Dry Type Transformers



Cores:

- Step lap stacked and wound
- Materials: Grain-oriented cold rolled silicon electrical steel sheet with insulating coating on both sides low core loss and high permeability.

Yoke clamps:

- Made of cold-rolled and hot-rolled steel, they clamp the core, with individual bolted caps enabling easy disassembly for maintenance purposes.
- They ensure high resistance to short circuit mechanical stresses, low noise levels and low excitation currents.

Cells:

- Designed to be included within the cabinets or cells of high-voltage substations, to be provided in accordance with the customer's requirements.

Accessories and protection devices:

