

Made in Canada Dry Type Transformer

Chess Controls Inc. supply dry type transformers ranging from, but not limited to, 5 Kva to 12 MVA.

CSA, Laboratoires d'essai CSA (ISO 17025), UL , Système de Qualité ISO 9001.



General Purpose Transformer

General Purpose Isolation transformers are used to lower distribution voltages (480 or 600V) to lower voltages (typically 120/240 or 208Y120) for power distribution within commercial or industrial buildings. These “two windings” transformers provide the electrical isolation required, and allow for short runs of high current, low voltage cables, reducing losses in the system, and reducing costs.

GVPI / VPE Power Transformer

Vacuum Pressure Impregnated (VPI) power transformers utilize an open winding design, where the coil insulation is impregnated with an epoxy resin under vacuum and pressure, providing the windings a degree of protection against moisture and dirt, and improving the thermal conductivity of the winding which reduces localized hot spots. Furthermore, the VPI process removes air voids which deep within the windings, filling them with epoxy instead. These air voids, if not eliminated, can lead to higher partial discharges which can damage the transformer insulation over time, leading to premature failure. For a higher degree of protection, vacuum pressure encapsulated (VPE) coils can be utilized which involves repeated VPI and bake cycles.

Cast Coil Power Transformer

Cast coil power transformers feature primary and secondary windings which are vacuum cast inside a solid block of epoxy resin. The epoxy resin is introduced under vacuum in order to penetrate all the spaces within the winding, ensuring a void free casting with minimal partial discharges. The solid casting provides the highest degree of protection to the windings, making them ideally suitable for harsh environmental conditions which include airborne dust & high humidity. Furthermore, the fiberglass reinforcement which is incorporated into the casting provides the transformer with the highest mechanical strength which makes it resilient to short circuit forces.

Contact Chess Controls Inc. for more details.

