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HIGH EFFICIENCY TRANSFORMERS FOR DATA CENTERS

Excellent Operation Systems



In recent years, Data Centers have undergone a major transformation, driven by the growing demand for digital services. The introduction of technologies such as 5G, the Internet of Things (IoT), Artificial Intelligence, and Machine Learning has evolved these centers from simple physical spaces to highly optimized and intelligent infrastructures. A data center is a physical facility designed for processing, storing, and managing large amounts of data. They are not simply repositories for data, but dynamic ecosystems-also known as CEDs, or Data Processing Centers-planned to ensure scalability, resilience and security. Many companies are investing billions in developing more advanced and efficient facilities as both governments and businesses recognize Data Centers as strategic assets, similar to critical infrastructure such as power plants and transportation networks. According to recent studies, the global Data Center market is set to grow considerably, with investment over the next decade quadrupling. Data centers house servers, storage systems, network equipment and other resources essential to ensure the continuous and uninterrupted operation of applications, services and digital platforms. This implies that all equipment used in data centers must be efficient, reliable and free of defects. To ensure business continuity, data centers are equipped with redundant power systems, uninterruptible power supplies (UPS), backup generators, and sophisticated cooling systems to prevent equipment overheating.

GBE has been supplying transformers for these types of applications for many years, both oil and resin, not only in Europe but globally. Numerous customers rely on our expertise, appreciating the strict quality criteria of our manufacturing process that ensure high quality products with above-average standards. Among the numerous projects in the Data Center sector, we would like to highlight the recent supply made in Northern Europe, consisting of 20 units of 6MVA and 43 transformers of 3.15MVA. These transformers are cooled with FR3® biodegradable vegetable ester, which has minimal environmental impact and high performance with TUP (Thermally Upgraded Paper) paper, belong to Dyn11 group, and have insulation classes of 12kV and 24kV, with frequency of 50Hz. All transformers include accessories for control and verification and are equipped with protection boxes with copper bars for cable entry from below. Power transformers were supplied with a hot-dip galvanized tank to contain liquid.

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