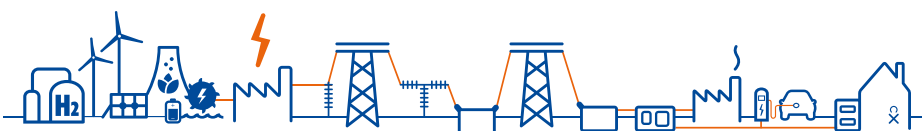


iBIT[®] TECHNOLOGY FOR CAST RESIN TRANSFORMERS



iBIT® CAST RESIN TRANSFORMERS

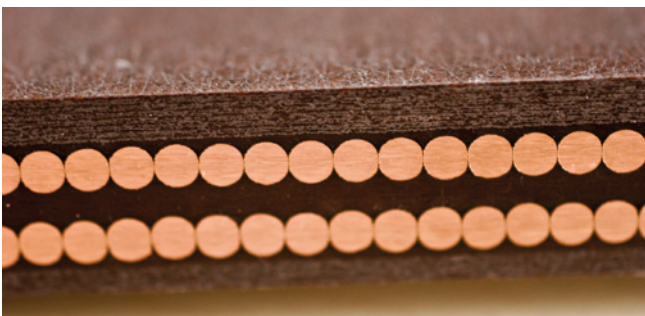
Say goodbye to the hassle of designing, installing, and maintaining protective equipment against overvoltages for your energy supply.



CUTTING-EDGE SGB CONCEPT

Are you experiencing power outages and equipment damage due to fast transient overvoltages caused by circuit breaker operations?

- Upgrade your power systems today with the cutting-edge SGB concept, and experience unbeatable efficiency, reliability, and performance.
- The iBIT® technology reduces electrical stress and avoids internal failures due to switching transients and overvoltages caused by circuit breakers on primary windings of SGB cast resin transformers.
- This innovative design of the primary windings do not show harmful series resonances in the frequency range below and including 100 kHz, which is usually triggered by circuit breaker switching operation. This significantly reduces the risk of a transformer outage.



DOUBLE LAYER TECHNOLOGY

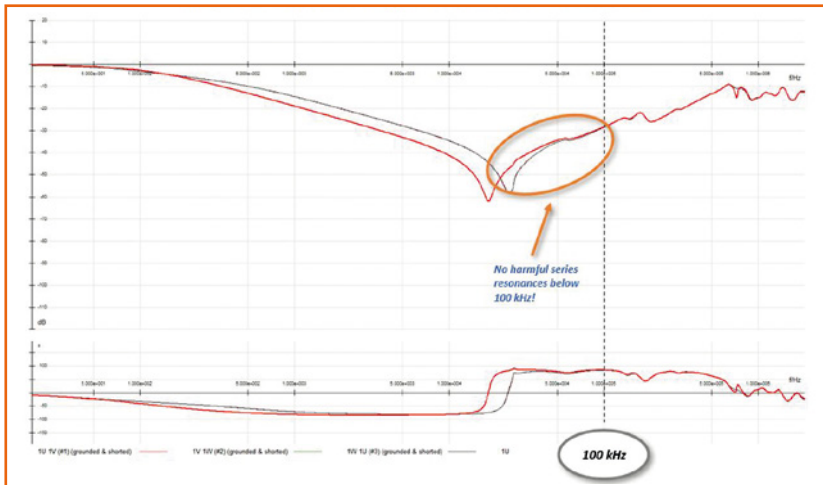
- SGB Cast Resin transformer concept is using double layer technology. This technology is perfectly suitable to vary key design parameters throughout the design stage, which is necessary for shifting resonance frequencies to higher sections of a specific range.
- Since the iBIT® design avoids overvoltages caused by e.g., switching operations or caused by excitation of natural frequencies here is no need for additional equipment such as RC-Snubbers, which can be costly and have their drawbacks.



Choose the iBIT® transformer and enjoy a hassle-free, reliable, and cost-effective solution for your transformer needs.



Amplitude and phase response of a standard distribution transformer



Amplitude and phase response of an iBIT® transformer

KEY ADVANTAGES

The iBIT® technology provides several key advantages:

REDUCED RISK OF DAMAGE OR FAILURE:

Primary windings of SGB iBIT® transformers show an increased protection against overvoltages related to switch gear operation.

INCREASED SYSTEM RELIABILITY:

By minimizing the risk of damage or failure, the iBIT® technology helps to ensure that your power systems remain up and running, minimizing the risk of downtime and equipment damage.


COST-EFFECTIVE SOLUTION:

The iBIT® technology is a cost-effective solution, as it does not require external filter like RC-Snubbers.

CUTTING-EDGE INNOVATION:

The iBIT® technology is a groundbreaking innovation in transformer design and is a testament to SGB-SMIT's commitment to excellence and innovation.

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