

Self-Excited Synchronous Machine More than Excitement

Many companies try to find a solution for synchronous machines without permanent magnet excitation due to several reasons.

With a current self-excitation it is possible to design electric drives without any magnets. Furthermore, the synchronous machine is current excited without any brushes or rotating transformer. Just simple tooth concentrated windings for stator and rotor are needed.

In the shown example, the 5th MMF harmonic is used as working harmonic and the 13th MMF harmonic is used as excitation harmonic. This saves space and costs - highly advantageous features of the technology!

Optimize your machines – with self-excitation technology!

