IGBT Generation 7
The New Benchmark for Motor Drives

Nuremberg, May 08, 2019

The generation 7 IGBTs represent the latest IGBT chip technology. This new generation is specifically designed to match the requirements of motor drive applications. The IGBTs come with a significantly lower forward voltage drop and deliver optimised switching performance. Thanks to roughly 25% smaller chips, higher nominal currents can fit into existing power module packages.

In application, the IGBT 7 provides reduced power losses or increased maximum output power and power density. This translates into lower system costs. As to motor drives, the generation 7 IGBT will initially be introduced into conventional drive topologies: CIB (Converter-Inverter-Brake), sixpack and half-bridge configurations. For low and medium power drives, MiniSKiiP and SEMITOP E1/E2 are the first available choice. For higher power classes IGBT 7 is available in SEMiX 3 press-fit and SEMiX 6 press-fit. More power modules are to follow.

Photo: SEMIKRON_Pressebild_IGBT7_05-2019.jpg

About SEMIKRON
SEMIKRON is one of the world’s leading manufacturers of power modules and systems primarily in the medium output range (approx. 2 kW up to 10 MW). Our
products are at the heart of modern energy efficient motor drives and industrial automation systems. Further application areas include power supplies, renewable energies (wind and solar power) and electric vehicles (private cars, vans, buses, lorries, forklift trucks, and more). SEMIKRON's innovative power electronic products enable our customers to develop smaller, more energy efficient power electronic systems. These systems in turn reduce the global energy demand.

SEMIKRON is a family owned business founded in 1951, headquartered in Nuremberg, Germany. Today the company has a staff of more than 3,200 people in 25 subsidiaries worldwide. This international network with production sites in Germany, Brazil, China, France, India, Italy, Korea, Slovakia and the US ensures fast and comprehensive service for customers. By establishing the ONLINE SHOP, SEMIKRON increased its presence for customers.

**Press Contact:**
Werner Dorbath  
Marketing – Communication International  
SEMIKRON INTERNATIONAL GmbH  
Sigmundstrasse 200  
90431 Nuremberg  
Tel: +49-(0)911-6559-217  
Mobil: +49-(0)176-30086217  
[ werner.dorbath@semikron.com](mailto:werner.dorbath@semikron.com)  
[ www.semikron.com](http://www.semikron.com)