



Product Brief

ThinGap Demonstrates High Power Motor Capability with 100 kW Motor Kit

Showcasing ThinGap's highly scalable slotless motor technology, the TGO 385 was designed with renewable energy in mind, but many potential applications exist.

Camarillo, CA (February 9, 2023) – ThinGap has completed its latest large-size motor prototype, the TGO 385 for a commercial customer. The TGO 385 motor kit has an outer diameter (OD) of 385 mm (15 in.), and an axial height of 223 mm (9 in.), making it about the same volume as a 5-gallon bucket. The power output capability of the TGO 385 is estimated to be 100 kW or more depending on the application.

Showcasing the highly scalable nature of ThinGap's motor architecture, the TGO 385 is the newest variant of the TG Series of slotless motor kits. The company's TG motors are unique in having a stator architecture with an ironless coil. Due to the absence of slots or "teeth", ThinGap's stators do not saturate during operation, allowing the motor kit to produce more torque as current is applied, without the falloff seen in traditional iron core motors. Combined with a mechanical design that promotes convective cooling during operation means that the TG Series has unrivaled power density.

The TG Series has been successfully used in a wide variety of generator, propulsion, and flywheel applications, ranging from gyro-stabilization in boats and satellites to airborne starter-generators. To learn more the highly efficient, zero-cogging TG Series of slotless motor kits, click the link below.

The TGO 385 demonstrates ThinGap's ability to deliver tailor-made high-power solutions. With more than two decades of experience in the design and production of slotless motor kits, ThinGap leverages its proven designs and analytical modeling that results in highly accurate transitions from predicted performance to real world operation. Furthermore, the process steps needed to produce motors of all sizes is highly scalable, and ThinGap has shipped large class motors of up to 600 mm OD, ranging from 10-400 kW of output power.

For additional information on custom motor development, please contact the company at info@thingap.com or visit www.thingap.com.

About ThinGap

For over twenty years, ThinGap has been a world leader in the design and manufacturing of USA-made, high performance frameless electric motor and generator kits.