

THINGAP® CORPORATION ANNOUNCES:
BRUSHLESS MOTOR NAMED
DESIGN NEWS' GOLDEN MOUSETRAP AWARDS FINALIST

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VENTURA, CALIFORNIA – September 11, 2007 - ThinGap Corporation, the leader in high power density DC motors, today announced the TG2340 Brushless DC Motor has been named a finalist in Design News' Golden Mousetrap Awards. The TG2340 delivers very high power-to-weight and size ratios, as well as high efficiency power conversion, providing an excellent solution for battery-powered and space limited applications.

"Being a finalist in Design News' Golden Mousetrap Awards demonstrates once again that ThinGap's motor technology continues to lead the industry in power density and efficiency," said Rean Pretorius, CEO, ThinGap Corporation. "ThinGap uses innovative motor technology to push the envelope by providing higher efficiency, more torque and more horsepower from smaller packages, all essential attributes of the motors driving us into the future."

The power to size and weight of the TG2340 is a key advantage, especially for portable and battery powered applications. The high rotor inertia of the motor is useful for smoothing the current waveform with pulsating loads produced by reciprocating equipment such as piston pumps and compressors. The use of a ThinGap motor with low current pulses and good efficiency over a wide load range provides longer operating time between battery charges. ThinGap motors provide better efficiency at light loads because hysteresis losses are eliminated and eddy current losses are reduced.

At 48 volts DC, the TG2340 delivered a continuous power of 1.0 hp into a dynamometer load. The motor and controller provided system efficiency as high as 85% at a power output of 0.55 hp. In both cases, the motor was driven with an off-the-shelf trapezoidal waveform controller. The efficiency of the motor alone exceeds 90%. High efficiency is achieved at low and high power output levels. An efficiency of 82% is available over the range of 50 to 140 in-ozs, or from 200 to 550 watts output. This helps to extend battery life when operating either in a light duty "conserve" mode or at high power levels.

For the full specs on the TG2340 BLDC motor click on: <http://www.thingap.com/pdf/tg2340ds.pdf>.

For more information, please visit <http://www.ThinGap.com>.



About Design News

Design News, founded in 1946, is the leading technical resource for design engineers, who create everything from planes, trains, and automobiles to cellular phones, medical devices, and, well, just about every other product on the planet.

To be successful in their jobs, our readers need information on new technologies and products. They need and want to know how new solutions compare with existing products and how and where their engineering peers are using them. In particular, they are interested in the specific trade-offs and issues that are inherent in the adoption of new technology in a design effort and how other engineers manage those trade-offs.

Design News is the only engineering resource to provide this kind of highly useful, practical editorial content both in print and online. We are committed to packaging and delivering that content in a format that is both quick and intuitive for busy engineers to access, whether it's within print publication, supplements, bi-weekly technology e-Newsletters, RSS feeds or our extremely popular website.

About ThinGap

ThinGap Corporation manufactures an innovative line of brush and brushless motors utilizing a patented electromotive coil design. Applications include:

- Piston and rotary/vane compressors for portable oxygen concentrators and fuel cells
- Industrial cordless tools, such as strapping machines, concrete coring, and drilling machines, impact wrenches, ratchet drivers, and grinders
- Precision high speed, constant velocity scanners
- Unmanned vehicles, such as aerial, ground, and underwater
- Air bearing spindles for servo writers, disk drive testing, optics and imaging, precision wafer inspection, metrology, and precision balancing
- Wind power generators (alternative energy)

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