Stepper Drive Features Common Control Interfaces and Programmable Languages

Featuring common control interfaces and programmable languages, the STM Drive+Motor solution from Applied Motion Products is a stepper drive that is fused into a single device. The product has current control, anti-resonance technology, torque ripple smoothing and microstep emulation allowing the drive to deliver stepper performance suitable for medical, packaging, semiconductor and other automation applications. The drive+motor units come standard with protection against over and under voltage, over-temp, motor shorts and motor open phase. They are RoHS compliant and CE certified. The product is available in lengths of 92.4 mm with an output torque of up to 125 oz-in, or 114.4 mm with an output torque of up to 245 oz-in. They provide three digital inputs, one digital output and one analog output. Users can choose from an RS232 or RS485 communication interface and an optional 1000 line encoder that is part of the motor body. Two versions with different control options are available; the S version with step and direction input, and the programmable Q version. The S version is configured with graphical, intuitive CONFIGURATOR software and can be configured from a drop-down menu. The Q version is suited for more motion and provides stand-alone operation that is programmed with the programming environment. Self-Test and Auto Setup features measure and configure motor parameters, while Electronic Damping (anti-resonance) technology eliminates midrange instability. Command Signal Smoothing reduces system resonances for performance and wear on mechanical components. Torque Ripple Smoothing adjusts the current waveform to reduce low speed torque ripple.

Applied Motion Products
1-800-525-1609, www.applied-motion.com [1]

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