Single-Axis Motion Controller

Galil Motion Control, an industry leader in motion control technology, is announcing their latest drive option for the DMC-30000 Pocket Motion Controller Series. The new DMC-30016 combines a single-axis motion controller with a 1.4A/phase stepper drive in a compact unit.

“The DMC-30016 joins the growing family of drive options for the DMC-30000 Pocket Motion Controller Series which includes the previously released DMC-30012 800W Brushless Sine Drive and DMC-30017 6A/phase Microstepping Drive”, said Lisa Wade, vice president of sales and marketing. “Like other products in the DMC-30000 Series, the DMC-30016 offershigher performance, better power efficiency, smaller size, and a lower price than prior generation, single-axis controllers.

The new DMC-30016 controller contains a 1.4A per phase, 30V stepper amplifier which drives a two-phase bipolar stepper motor in full-step, half-step, ¼ step or 1/16 step. The DMC-30016 is user configurable from 0.5A to 1.4A per phase in 10mA increments at 12-30 VDC.

Designed for compact size, the dimensions of the DMC-30016 controller/drive package are 3.9” x 5.0” x 1.5”, and no external heat sink is required.

Like other products in the DMC-30000 series, the DMC-30016 is higher speed than Galil’s prior generation single-axis controllers; The 125 microsecond servo loop update time is twice as fast and the 15MHz encoder frequency and 3 MHz stepper pulse output are 25% faster. Other features of DMC-30000 controllers include PID compensation with velocity and acceleration feedforward, non-volatile memory for user programs, multitasking for simultaneously running up to four programs, and I/O processing for synchronizing motion with external events. Modes of motion include point-to-point positioning, position tracking, jogging, contouring, electronic gearing, ECAM, and PVT.

The DMC-30000 provides optically isolated inputs and outputs as a standard feature. I/O include forward and reverse limit inputs, homing input, 8 uncommitted digital inputs, 4 uncommitted digital outputs, 2 uncommitted analog inputs and 1 uncommitted analog output. Two daisy-chainable Ethernet ports are included and an external Ethernet hub is not required. A 115 kb RS232 port is also provided. The ability to receive inputs from two digital encoders is a standard feature. BiSS, SSI and sinusoidal encoder input formats are available as options.

The DMC-30016 controller and stepper drive unit is $645 U.S. in single quantity and $415 in quantities of 100. The DMC-30016 is available for immediate delivery.

In addition to the DMC-30012 controller & servo drive, DMC-30016 controller & stepper drive and DMC-30017 controller & microstepping drive packages, the DMC-30000 Series is also available as a controller-only model which can be connected to a stepper or servo motor amplifier of any power range.

Galil Motion Control
800-377-6329; www.galilmc.com [1]

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