Introducing the New Kollmorgen P5000 Stepper Drive.

The P5000 is a compact micro-stepping stepper drive optimized for high system performance with Kollmorgen’s industry leading POWERMAX II stepper motors. It is an impressive yet simple addition to the Kollmorgen stepper drive family.


Pairing a stepper system doesn’t get any easier! The P5000 and Kollmorgen stepper motors are meant to be together. With easy access smoothing and profile potentiometers for optimized performance.

Features

- Current output from 0.7-3.5 A peak; DIP switch selectable in 0.2 Amp increments
- Bus Voltage 20-75 Vdc
- Wave matching via potentiometers for Kollmorgen motors to provide optimal performance for the Kollmorgen Stepper Motor Families.
- All Inputs and Outputs are Optically Isolated
- Command Source from External Step and Direction Inputs or Internal Velocity Controlled Oscillator (VCO); DIP switch selectable
- External Single-Ended Step and Direction Command
  - Disable Input
  - Fault or Enable Output
- VCO Mode
  - VCO allows for velocity control via 2 separate potentiometers for CW and CCW rotation and a third potentiometer for acceleration.
  - CW Jog Input
  - CCW Jog Input
  - Run/Stop Input
  - Run/Stop Output
  - CW Speed trimpot
  - CCW Speed trimpot
  - Accel/Decel trimpot
- Pulse Multiplier smooths micro-stepping*
- Idle Current Reduction; DIP switch selectable
- Compensation for mid-range instability*
- RoHS & CE certified
- UL pending

*Patents Pending
P5000 Model Number and Dimensions

**P5 03 3 0 - SD N - PMX**

- **P5000 Series**
- **Current Rating**
  - 03 = 2.5 Arms continuous, 3.5 A peak*
- **Voltage Range**
  - 3 = 20 - 75 Vdc
- **Electrical Options**
  - 0 = None

**Customization**
- PMX = Optimized for POWERMAX

**Feedback Device**
- N = None

**Functionality**
- SD = Step/Direction, Internal VCO

*Note: Switch selectable in 0.2 Amp increments, 0.7 - 3.5 A

**Pinout Details**

**POWER GND**
- +20-75VDC
- PHASE A
- PHASE/A
- PHASE B
- PHASE/B
- DISABLE
- DIRECTION
- STEP
- FAULT
- COMMON
- NC

**Specifications**

- **Current Rating**
  - 2.5 Arms continuous, 3.5 A peak*
- **Voltage Range**
  - 3 = 20 - 75 Vdc
- **Electrical Options**
  - 0 = None

*Note: Switch selectable in 0.2 Amp increments, 0.7 - 3.5 A

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