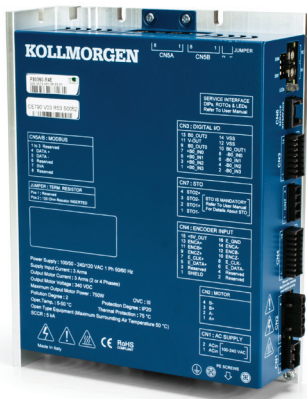## The stepper drive with closed–loop position control and full programmability

P80360
Stepper Drive

Based on Kollmorgen's innovative P8000 platform, the P80360 stepper drive offers superior smoothness and accuracy for motors running on AC power at up to 3.0 A_{RMS} per phase. Features include closed-loop position control and full programmability for servo-like control. The P80360 drive is ideal for use in labelers, indexing tables, CNC machines, XYZ gantry systems such as 3D printers, packaging machines, medical lab equipment, pumps, and many other applications requiring simple point-to-point movements as well as linked motion sequences.

Minimize Errors with Closed–Loop Position Control

- Minimize scrap and the risk of equipment damage using encoder feedback to correct for position overshoot and undershoot errors.
- Compensate for compliance due to gearing, couplings and heavy or variable loads.
- Improve motor efficiency by drawing only the current necessary to move the load, saving energy and reducing dissipated heat.

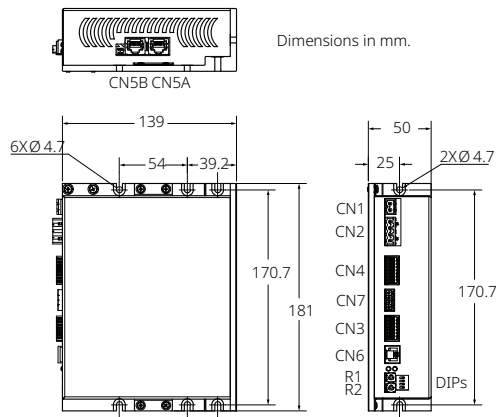### Solve Difficult Motion Challenges with Full Programmability

- Create motion and linked motion sequences with ease via the intuitive graphical user interface and programming language, reducing overall setup time.
- Potentially eliminate the need for external PLCs or indexers for single-axis motion control, reducing overall system cost.
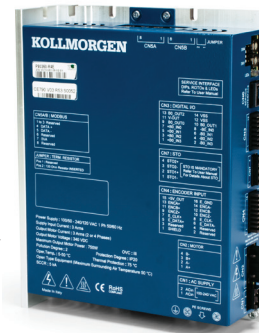
Reduce Setup Time

- Get your machine up and running faster with the Motor Wizard feature included in Kollmorgen Space software, requiring only input of the initial profile velocities and acceleration times when used with Kollmorgen motors.

P80360
Stepper Drive

Dimensions in mm.

CN5B CN5A

6XØ 4.7
139
54 39.2
170.7
181

50
25 2XØ 4.7
CN1
CN2
CN4
CN7
CN3
CN6
R1
R2
DIPs
170.7

CN1: Power Supply
CN2: Motor Connections
CN3: Digital I/O
CN4: Feedback Connections
CN5A/5B: Modbus RTU Interface
CN6: Service SCI Interface
CN7: STO Inputs (mandatory

RoHS compliant   CE cULus

Electrical Data

Phase Current	Arms (Apeak)	Up to 3.0(4.2)
Power Supply	V_{AC}	100 to 240, single phase only
Mandatory Dual STO Inputs (isolated)	V_{DC}	24
Chopper Frequency	kHz	40

Characteristics

Weight	800 g
Closed Loop	Available (Position Loop Only)
Protections	Over current, over/under voltage, overheating, short circuit
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5 °C to 50 °C | Storage: -25 °C to 55 °C | Max. Chassis 75 °C
Humidity	5% to 85%, non-condensing

Interface Control Mode

Fieldbus	Modbus RS485 RTU
Programmable	Programming and Real-Time Debugging
Software	Kollmorgen Space

Note: The Service SCI interface kit is required for programming and available as additional accessory. Modbus RTU interface cables are not included.

Connection Mode

Digital Inputs	4
Digital Outputs	3
Analog Inputs	N/A
Encoder Inputs	Incremental 5 V Differential (RS422) or 5 V Single-Ended (TTL/CMOS)

Note: Mating connectors are included with the drive.

Standard Combination

All motors with phase current up to 3.0 A_{RMS}

For More Information or to Order

Visit kollmorgen.com/en-us/products/drives/stepper/p8000