



PMD-5103-D is a high performance Step Motor Driver, designed to operate in hostile industrial environment, factory floors, labs, as well as educational institutes. This driver is a member of Superior Solution Series-5000 program, which makes it the most simple to wire and the easiest to operate. Series-5000 compatible means getting extremely rich and wide software package, free of charge, and including end users operating programs, expert programmer drivers, beginners sample programs and general staff as intelligent system-integration tool, and technical knowledge base.

This driver includes all essential modern features as microstepping for smooth and accurate moves, automatic current reduction at stand still, for power saving and for reasonable heat level keeping, current source method for best efficiency and high speed capabilities, internal pulse generator for testing and for manual moves, and more. The PMD-5103-D includes additional, rare to be found features, that makes it capable of providing solutions to unsolved or expansively solved problems. Best way to learn about these special qualities is by touring the Application Notes.

All driver's "control" inputs and "motor" outputs are very well protected, making it steady and reliable driver to suit each project demand at any working environment.

FEATURES

- High resolution - up to 1600ppr
- Sine Wave like drive signal
- Fine and soft motor movement
- Decreased power consumption when idle
- Capable of extreme high speed
- Extended environment qualification
- Local operation speed might be externally set.
- Easy multiplexing.
- Limit switch secured operation
- Well protected inputs and outputs

APPLICATIONS

- Robotics
- XY Tables control
- Precision valve control
- High demand and sophisticated motion control projects

SPECIFICATIONS

CONTROL Inputs

- Logic LOW level: 1.5 volt Max
- Logic HIGH level: 3.5 volt Min
- Max input range: -25 to +35 volt
- Max clock rate: 80 KHz @ 5V 50%

CONTROL Outputs

- Feedback signal: 5 to 30 volt
- Feedback sink current: 10 mA Max

AUX I/O

- Voltage range: 5 volt TTL level

MOTOR DRIVE

- Drive method: 2 Phase Chopper
- Nominal per phase: 3 Amp continuous
- Step resolution: 200 to 1600 PPR
- Max motor speed: 5000 RPM ext.clk.

POWER SOURCE

- Nominal voltage: 24 volt DC
- Min/Max +/- ripple: 11/35 volt
- PMD-5103-DH only: 11/55 volt
- Current requirement: Up to 2.5A

GENERAL

- Environment: 0 to 60° Celsius
- Dimensions: 120x40x75 mm
- Weight: 450 gr

ORDERING

- PMD-5103-D: 3 Amp, 200 to 1600 PPR, Metal enclosed, High performance Stepper Motor Driver.
- PMD-5103-DH: 3 Amp, 200 to 1600 PPR, Metal enclosed Stepper Driver, w. 55 volt, extended PS range.
- PS-50242: 24V Step Motor Driver Power Supply.
- PM-5231-5528-D1: NEMA-23, 5Kgcm, 200ppr Stepper Motor, Series-5000 compatible.
- PW-509011-2: PM-5231-5528-D1 Step Motor Wiring Cable, Series-5000 compatible.