



MMP 25A-12V DC MOTOR SPEED CONTROL



Reliable

- Designed to control the Speed of a Standard 12 Volt Brushed DC Motor.
- Maintenance free, Time Tested Design, Solid State Circuitry, minimal EMI / RFI Noise
- Potted, Rugged Construction, Designed for Harsh Environments. (IP65 Rated)

Versatile

- Operates from 10 to 20 VDC; Battery or other DC Supply
- Peak “momentary” Current is 40 Amps (1 Second Max)
- Easily Installed to any flat surface – Two ¼” Diameter Mounting Holes
- Output Pulse Width can be Varied for 0% to 98% Duty Cycle, switches at 22 KHz
- Compact Size - 4.5” by 2” By 1.5” High.
- 24 Volt DC Design also available*

Economical

- Low Cost, Time-Proven Reliability, Very low ripple output
- Electronic Design Offers Longer Life than Mechanical Switches.
- Solid State Design with State of the Art Components.

MIDWEST MOTION PRODUCTS CO.

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MMP 25A-12V SPECIFICATIONS

Supply Voltage	10-20 Volts DC *
Output	Current Sinking
Voltage Drop	1 Volt Max, 1/2 V Typical
Current – Continuous / Peak (max)	25 Amps / 40 Amps (1 Second)
Humidity	to 100% condensing
Operating Temperature	0 degrees to 65 degrees C
Storage Temperature	-40 degrees to 85 degrees C
Enclosure	Aluminum
Terminals	.250 x .020 Quick Disconnect Male

IMPORTANT NOTE: THE POLARITY OF THE DC INPUT VOLTAGE MUST BE OBSERVED, OR DAMAGE TO THE CONTROL COULD RESULT. Protect the unit from OVERCURRENT by using a 20A or 25A Slow Blow Fuse, in line with the (+) Power Input terminal.

Operation

The MMP 25A-12V Motor Speed Control operates on 10-20 Volts DC; Battery power is acceptable. It is designed to control the output speed of a Brushed PM DC motor, by varying the output pulse width from 0% to 98% duty. The MMP 25A-12V is easy to use, having just 7 “faston” interconnects— two for 12 Volt power, two for the motor, and three for the ‘pre-wired’ speed control potentiometer, one of which is included with each unit.

Also accepts 0-5 VDC Analog command.

Typical Applications

Agricultural ~ Automated Guided Vehicles ~ Autonomous Vehicles ~ Automotive & Transportation ~ Signage Motion Battery Powered Robots ~ Chemical Feeder ~ Compressors ~ Conveyors ~ Fans & Blowers ~ Food Processing ~ Gear Motors ~ Hose & Cable take-up Reels ~ Paper Processing ~ Photo Processing ~ Portable Instruments ~ Pumps ~ RV's ~ Ventilators ~ Vibratory Feeders ~ Wire Feeders

For more information on this product or any of the other product lines we provide, contact

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Design, Manufacturing, & Distribution — Motion Control Equipment

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DC Motors, Gearmotors, Linear Actuators, DC Power Supplies and Servo Drives available

***24 and 48 Volt DC Design also available—**

See Model MMP 25A-24V and MMP 25A-48V for details