



## **MMP 20A-12V-RSP DC MOTOR SPEED CONTROL**

**NEW DESIGN  
FEATURES BUILT-IN  
REVERSING  
SWITCH AND  
SPEED ADJUST  
POTENTIOMETER**



### **Reliable**

- Designed to control the Speed of a Standard 12 Volt Brushed DC Motor.
- Maintenance free, Robust Design, Solid State Circuitry, minimal EMI / RFI Noise
- Potted, Rugged Construction Design 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 Mounting Holes
- Output Pulse Width can be Varied for 0% to 98% Duty Cycle, switches at 22 KHz
- Compact Size - 4.25" by 3.1" By 1.0" High (not including switch height).
- 24 & 48 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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**1978 - Celebrating 28 Years of service to the Motion Control Industry - 2006**

## MMP 20A-12V-RSP SPECIFICATIONS

Supply Voltage	10-20 Volts DC *
Output	Current Sinking
Voltage Drop	1 Volt Max, 1/2 V Typical
Current – Continuous / Peak (max)	20 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.**

### Operation

The MMP 20A-12V-RSP 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 20A-12V-RSP is easy to use, having just 4 “faston” interconnects— two for 12 Volt power, two for the motor. The reversing switch and Speed Adjust Potentiometer are built in and pre-wired.

### Typical Applications

Agricultural ~ Automated Guided 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, or any of our wide variety of quality products, contact

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***Design, Manufacturing, & Distribution—Motion Control Equipment***

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**Compatible DC Motors, Gearmotors, Linear Actuators and Servo Drives available**

**\*24 and 48 Volt DC Designs also available—**

**See Model MMP 20A-24V-RSP and MMP 20A-48V-RSP for details**