## Type UPM | Unfiltered SCR Motor Speed Control (NEMA-4 Enclosure)

- Operates from 115 Volt AC or 230 Volt AC line
- Designed to drive 90 Volt DC or 130 Volt DC motors
- Switchable output for 0-90 Volt DC or 0-180 Volt DC
- Back EMF feedback maintains better than 2% speed regulation
- · Dip switches to easily calibrate control for different motor sizes NEMA 4 enclosure for wet
- or dirty environments
- Trim pots on PC board to adjust torque limit, minimum speed limit, maximum speed limit, acceleration time, deceleration time, and speed regulation
- Speed can be adjusted manually using speed pot on front of enclosure
- · Terminal block inside enclosure for quick line and motor connection
- Line fuses inside enclosure
- Line filter inside enclosure to reduce conducted EMI
- cURus, CE, RoHS



DC

| HP Rating               | Input V<br>(VAC,<br>50/60 Hz) | Motor Rating (VDC)                   | Continuous Output<br>Current (Amps) | Peak Output<br>Current (Amps) | FF  | Product Type | Model Number |
|-------------------------|-------------------------------|--------------------------------------|-------------------------------------|-------------------------------|-----|--------------|--------------|
| 1/5 @ 90V<br>1/3 @ 180V | 115 / 230                     | 90 or 130 @ 115 VAC<br>180 @ 230 VAC | 2.1                                 | 4.2                           | 1.4 | UPM-3318E4   | 1865         |

## Type WPM | Filtered PWM DC Basic Speed Control (Chassis, IP-00)

- Models 0780-0784 operate from 115 Volt AC line, 50/60 Hz
- Models 0786-0789 operate from a DC power supply or a battery
- 115V models: filtered DC output for cooler motor operation, longer brush life, lower audible noise, and wider speed range
- Back EMF feedback maintains better than 1% speed regulation Dip switches to easily calibrate
- control for different motor sizes
- Two diagnostic LEDs indicate when power is on and when current output is at limit set by TORQ pot
- Five on-board user-adjustable pots for torque limit, minimum speed limit, maximum speed

limit, acceleration time, and speed regulation

- Speed can be adjusted manually using a remote 10k speed pot (included with control)
- Connections for optional usersupplied inhibit switch
- cURus, RoHS



WPM Chassis Control (115 V model with terminal block)



WPM Chassis Control (12 or 24 V models)

- Model Number Input V Continuous Output Peak Output FF HP Rating Motor Rating (VDC) (VAC, Product Type Terminal Current (Amps) Current (Amps) 1/4 in. QC tab 50/60 Hz) Block WPM Chassis Filtered PWM DC Control (115 V Models) 1/4 2.0 2.5 WPM-2109C 0780 0783 1.0 115 90 or 130 7/16 3.2 5 WPM-2137C 0781 0784 WPM Chassis PWM DC Control (12 and 24 V Models) 1/12 1/6 0787 15 (VDC) @1250 @2500 12 12-14 17 35 1.0 WPM-2137C 0786 rpm rpm 24-35 14 0788 1/3 24 0789
- Filtered DC output

1/4

7/16

5/8 @ 130 V

- Designed to drive 90 Volt DC or 130 Volt DC motors
- Dip switches to easily calibrate control
- Model 0794: includes F-B-R (forward-brake-reverse) switch
- Type WPM | Filtered PWM DC Basic Speed Control (NEMA-1, IP-40)
- Line voltage compensation minimizes speed drift
- Trim pots on PC board to adjust torque limit, minimum speed limit, maximum speed limit, acceleration time, and speed regulation
- Manual speed adjustment
- Terminal block inside enclosure
- Back EMF feedback maintains
- better than 2% speed regulation • Factory installed AC line cable
- cURus, RoHS



For control accessories see page 35. See page 43 for reference dimensions. Visit our website for 2D/3D CAD drawings.

## www.bodine-electric.com



WPM Enclosed Control (Speed only)



WPM Enclosed Control (With Direction Switch)