



## 12 VDC Permanent Magnet DC Gearmotors and Motors

Bodine Electric offers a range of 12 Volt permanent magnet DC (PMDC) gearmotors and motors, up to 1/8 Hp. They are available with a variety of gearboxes, providing wide speed range. Torque ratings are up to 310 lb-ins. When paired with Bodine's WPM—12 VDC speed control, they provide a complete, single-source motion control system.

- **High starting torque**, adjustable speed, and predictable performance under a range of operating conditions
- **Unvented gearhousings** lubricated for life
- **Available for OEM applications:** lead-times and minimum quantities apply

**Typical Applications:** Bodine 12 VDC gearmotors and motors are ideal for battery or solar powered applications, such as automatic door openers in remote locations, solar powered pumps, boat lifts and pool equipment.



### 24A PERMANENT MAGNET DC MOTOR

Horsepower: 1/50 to 1/7 HP  
Rated Torque: 8 to 24 oz-in.  
Speed Range: up to 2,500 RPM



### 33A PERMANENT MAGNET DC MOTOR

Horsepower: up to 1/8 HP  
Rated Torque: up to 50 oz-in.  
Speed Range: up to 2500 RPM



### 24A-D AND 24A-Z PARALLEL SHAFT GEARMOTOR

Horsepower: 1/29 to 1/17 HP  
Rated Torque: 3.3 to 100 lb-in.  
Speed Range: 5.6 to 417 RPM



### 33A-W AND 33A-E/F PARALLEL SHAFT GEARMOTOR

Horsepower: up to 1/8 HP  
Rated Torque: 6 to 360 lb-in.  
Speed Range: 8 to 660 RPM



### 24A-3F/H HOLLOW SHAFT RIGHT ANGLE GEARMOTOR

Horsepower: 1/17 HP  
Rated Torque: 5 to 22 lb-in.  
Speed: 42 to 500 RPM  
Solid shaft versions also available



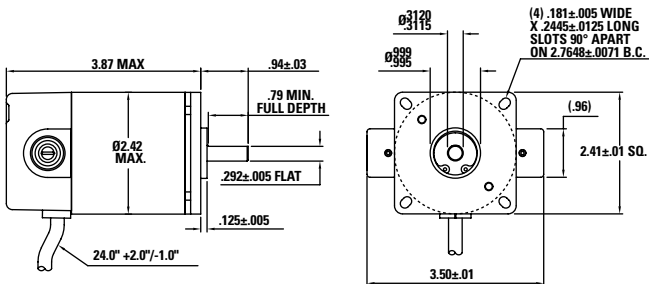
### 33A-5F, 33A-5N AND 33A-GB RIGHT ANGLE GEARMOTOR

Horsepower: up to 1/8 HP  
Rated Torque: 11 to 308 lb-in.  
Speed: 9 to 500 RPM  
Hollow shaft versions also available

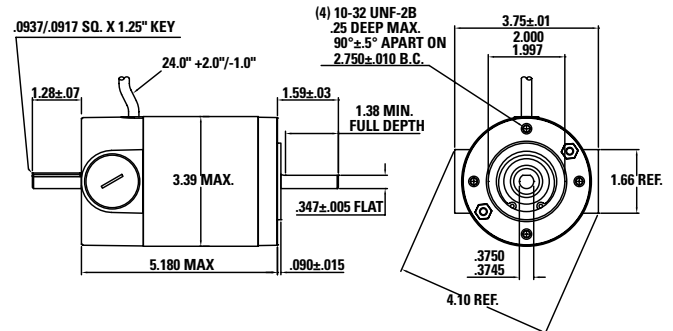


## 12 Volt PMDC Gearmotor and Motor Dimensions (standard configurations shown)

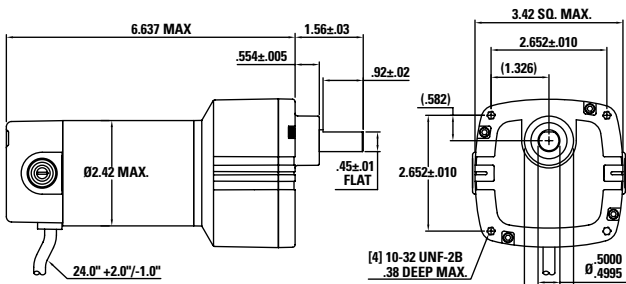
Type 24 A Motor



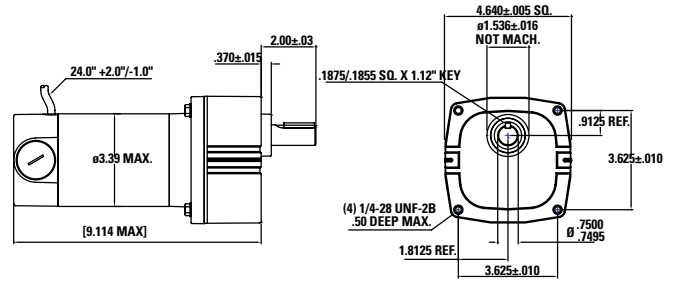
Type 33A Motor



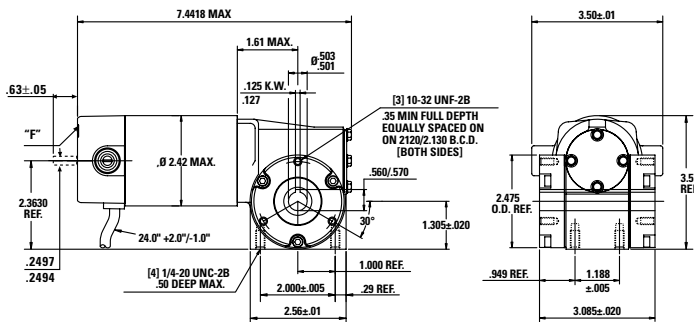
Type 24 A -D Parallel Shaft Gearmotor



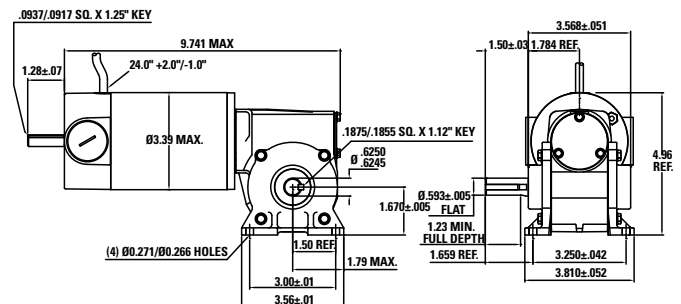
Type 33A-E/F Parallel Shaft Gearmotor



Type 24 A -3F/H Hollow Shaft Right Angle Gearmotor



Type 33A-5N/-5R Right Angle Gearmotor



## Bodine offers system-matched 12VDC controls

For more information, and to find your Bodine Regional Sales Manager, visit [www.bodine-electric.com](http://www.bodine-electric.com)

Ideal for battery or solar powered applications that require basic single-direction, speed control. The WPM filtered control provides high torque and lower operating temperatures. It features pulse width modulation (PWM) circuitry for precise speed control. DIP switches allow the control to be easily calibrated for different size motors. Controls are available with ¼" quick connect tabs.

