

Inches  
Millimeters

## 200 DC Motor

The 200 motor is a permanent magnet gearmotor utilizing a cylindrical barium ferrite 2 pole field magnet. A three bar commutator and a choice of carbon brushes or bifurcated silver alloy brushes provide long life, quiet operation and low starting voltage. The three slot rotor is supported by permanently lubricated sintered bronze bearings. Available in a wide range of speeds and an excellent choice for applications requiring reliability and quiet operation at low cost. Also available as Model 275 with same round gearbox used for Model 125.

### Features:

Designed for reliability and quiet operation • Rugged die cast gear housing • Output shaft may extend from front, rear, or both ends and is supported by bronze sleeve bearings • Mounting is compatible with other pear-shaped motors • Integral RFI filtering can be furnished • Totally enclosed for protection against contaminants • Options available...consult factory

**AUTOTROL CORPORATION** 

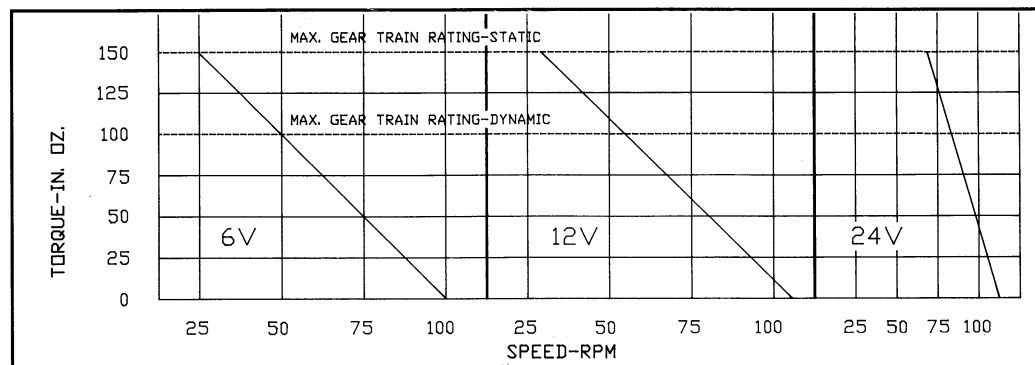
365 East Prairie Street, Box 557  
Crystal Lake, Illinois 60039 USA  
☎ 815/459-3080 FAX 815/459-3227  
Toll Free: 1-800-228-6207

www.autotrol.com email: sales@autotrol.com

# Specifications

## Rated Torque

Curves below typify rated torque outputs for standard 6, 12 and 24 volt motors. Values may vary  $\pm 15\%$  and are to be used only as a guide to determine available performance.



No Load Rotor Speed  
 6V-2,200 RPM  
 12V-4,000 RPM  
 24V-4,400 RPM

## Voltage

Rated Voltage	Operating Range
6 VDC	3-8 volts
12 VDC	9-18 volts
24 VDC	19-30 volts

## Current Draw

Voltage	Rated Load	No Load
6 VDC	70mA	16mA
12 VDC	60mA	30mA
24 VDC	35mA	15mA

## Dielectric and Insulation Resistance

Dielectric: 1000 volts RMS for one minute between terminals and case. Insulation Resistance; 10 megohm minimum measured with 500 VDC applied.

## R.F.I.

The 200 motor is available with an integrally assembled radio frequency filter to suppress RF noise and enhance brush life.

## Output Shaft Options Available

Current draw may be higher in certain units depending on the type and amount of lubrication used in the gear trains.

## Ambient Operating Temp. Range

-20°C to + 60°C

## Lubrication

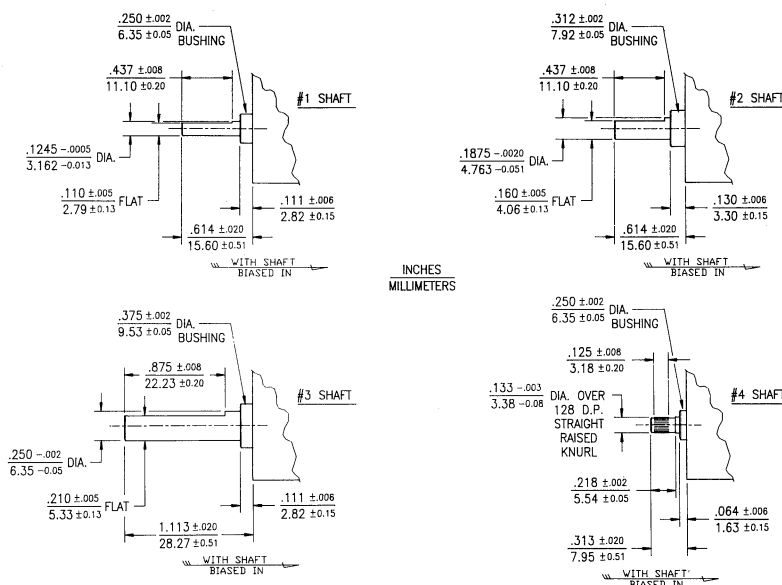
Permanently lubricated. Special lubricants available for operation under -20°C...consult factory (-40°C min.)

## Direction of Rotation

DC Motors may be operated in either direction depending on polarity as applied to the terminals. Direction of rotation of the output shaft with respect to polarity markings of the terminals will depend upon the number of gear reductions used in the gear train. Instantaneous reversing is not recommended in order to provide maximum brush life.

**Bi-directional DC Motors available.**

## Generally Used Output Shafts



This data sheet is intended for design purposes only. Actual motor performance characteristics, shaft design and optional features will depend upon specific requirements of the application. Consult factory for sample information or assistance in establishing your specifications.