

## 225 DC Motor

The 225 motor is a permanent magnet gear motor utilizing a standard round gear box die cast housing. It can be supplied with an array of DC motors. The specific DC will be tailored to meet the customer's application requirements. Typically, 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 a low cost.

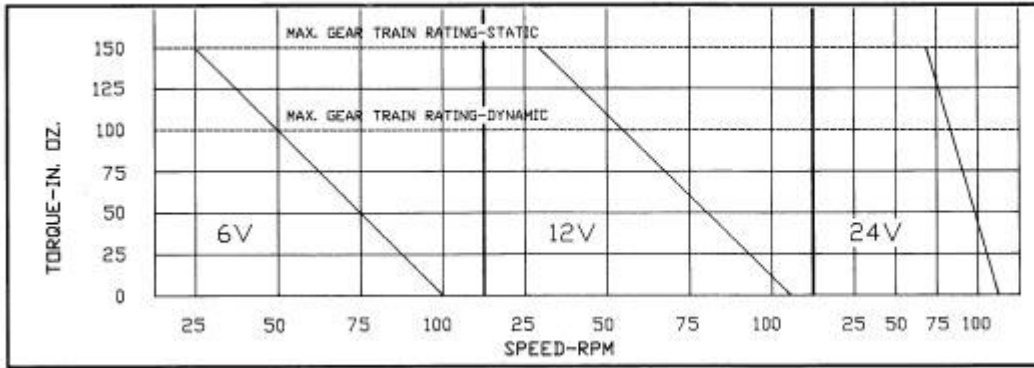
### Features:

- Designed for reliability and quiet operation
- Rugged die cast gear housing
- Mounting is compatible with other round-shaped motors
- Integral RFI filtering can be furnished
- Totally enclosed for protection against contaminants
- Options available...consult factory

## 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. Exact torque speed curves can be supplied once the optimum DC motor is chosen.



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

**Voltage**

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

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

**Current Draw**

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

**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**

