Scot builds many DC Motorpumps™. Brush life is a prime consideration. Two pole motors have a shorter brush life than four pole motors. Applications for continuous duty should use four pole motors if possible. Two pole average brush life is approximately 2000 – 4000 hours. Four pole average brush life is appreciably longer.

- 2 pole = 3000 RPM
- 4 pole = 1800 RPM

Permanent magnet design DC motors will run in one direction with the positive line to one lead and the opposite rotation when the leads are reversed. This reversing does not damage a permanent magnet design unless the load connected to the motor cannot operate in the reverse direction.

Stock DC motors are TENV (totally enclosed non-ventilated).

The motor leads are marked by the factory which power line (positive or negative) should be connected to each motor lead.

**Curve and chart will be added next week**