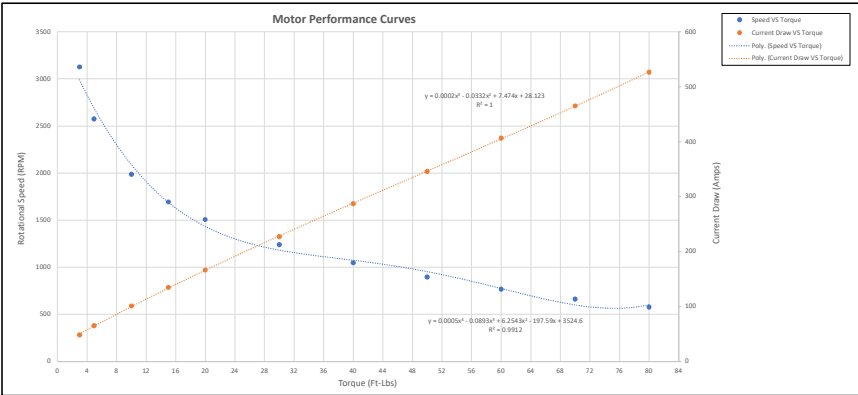
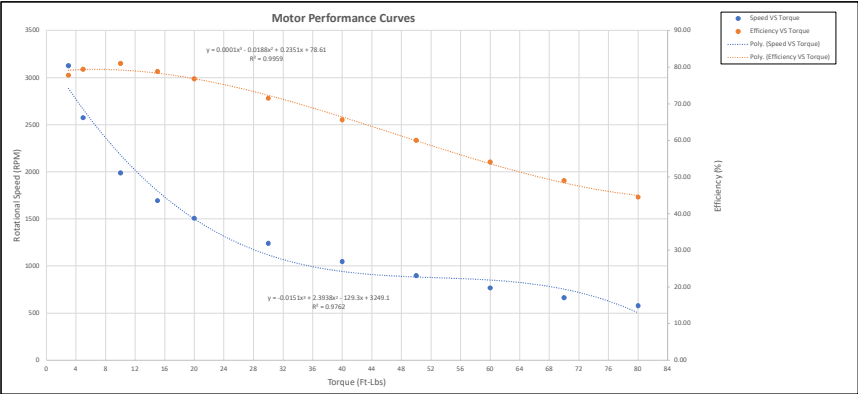
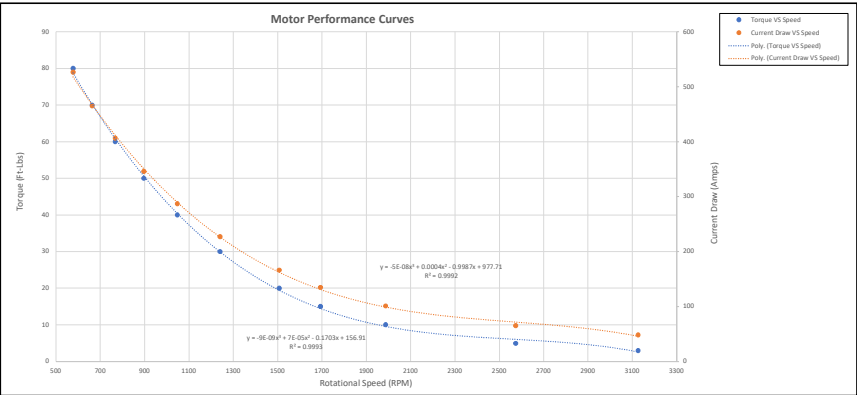
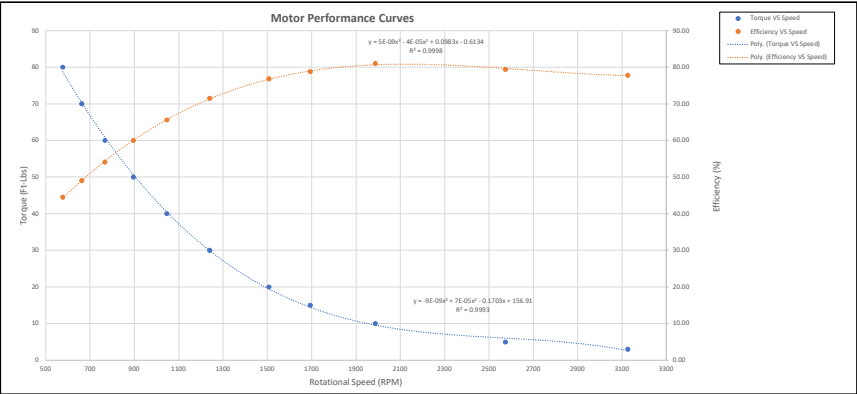


Engineering Performance Test Report  
Performance Spec (PS) Number: 9  
System Voltage [V]: 36 - (V \* 0.015)

| Torque (Ft-Lbs) | Speed (RPM) | Applied Voltage (Volts) | Armature Current (Amper) | Field Voltage (Volts) | Field Current (Amper) | Total Current (Amper) | Power In (Horsepower) | Power Out (Horsepower) | Efficiency (%) |
|-----------------|-------------|-------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|----------------|
| 2.98            | 3126        | 35.3                    | 48.2                     | 0                     | 0                     | 48.2                  | 1.78                  | 77.80                  |                |
| 4.95            | 2574        | 35.4                    | 65                       | 0                     | 0                     | 65                    | 2.43                  | 79.40                  |                |
| 10.01           | 1987        | 34.5                    | 101                      | 0                     | 0                     | 101                   | 4.67                  | 3.79                   | 81.00          |
| 15.01           | 1693        | 34                      | 134.8                    | 0                     | 0                     | 134.8                 | 6.14                  | 4.84                   | 78.80          |
| 19.98           | 1507        | 33.5                    | 166.3                    | 0                     | 0                     | 166.3                 | 7.47                  | 5.73                   | 76.80          |
| 29.99           | 1240        | 32.5                    | 227.2                    | 0                     | 0                     | 227.2                 | 9.9                   | 7.08                   | 71.50          |
| 39.99           | 1047        | 31.6                    | 287                      | 0                     | 0                     | 287                   | 12.15                 | 7.97                   | 65.60          |
| 49.99           | 896         | 30.7                    | 345.9                    | 0                     | 0                     | 345.9                 | 14.22                 | 8.53                   | 60.00          |
| 60              | 767         | 29.7                    | 406.5                    | 0                     | 0                     | 406.5                 | 16.2                  | 8.76                   | 54.10          |
| 69.99           | 663         | 28.9                    | 465                      | 0                     | 0                     | 465                   | 18.02                 | 8.83                   | 49.00          |
| 80              | 577         | 28                      | 526.5                    | 0                     | 0                     | 526.5                 | 19.78                 | 8.79                   | 44.50          |



Engineering Performance Test Report  
Performance Spec (SP) Number: 9  
System Voltage [V]: 48 - [V \* 0.015]

| Torque (Ft-Lbs) | Speed (RPM) | Applied Voltage (Volts) | Armature Current (Amper) | Field Voltage (Volts) | Field Current (Amper) | Total Current (Amper) | Power In (Horsepower) | Power Out (Horsepower) | Efficiency (%) |
|-----------------|-------------|-------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|----------------|
| 2.99            | 4292        | 47.4                    | 48.1                     | 0                     | 0                     | 48.1                  | 3.05                  | 2.45                   | 80.10          |
| 5.08            | 3524        | 47.1                    | 65.8                     | 0                     | 0                     | 65.8                  | 4.15                  | 3.41                   | 82.00          |
| 9.96            | 2773        | 46.6                    | 102.8                    | 0                     | 0                     | 102.8                 | 6.41                  | 5.26                   | 82.00          |
| 15              | 2392        | 46                      | 137.3                    | 0                     | 0                     | 137.3                 | 8.47                  | 6.83                   | 80.70          |
| 19.99           | 2138        | 45.4                    | 169.7                    | 0                     | 0                     | 169.7                 | 10.33                 | 8.14                   | 78.80          |
| 29.99           | 1808        | 44.4                    | 231.4                    | 0                     | 0                     | 231.4                 | 13.77                 | 10.32                  | 74.90          |
| 39.98           | 1573        | 43.5                    | 291.1                    | 0                     | 0                     | 291.1                 | 16.98                 | 11.97                  | 70.50          |
| 50.02           | 1388        | 42.5                    | 348.0                    | 0                     | 0                     | 348.9                 | 19.88                 | 13.22                  | 66.50          |
| 60              | 1234        | 41.9                    | 408                      | 0                     | 0                     | 408                   | 22.72                 | 14.1                   | 62.10          |
| 70.01           | 1113        | 40.8                    | 465.9                    | 0                     | 0                     | 465.9                 | 25.47                 | 14.83                  | 58.20          |
| 79.99           | 1002        | 39.7                    | 526.2                    | 0                     | 0                     | 526.2                 | 28.02                 | 15.26                  | 54.50          |

