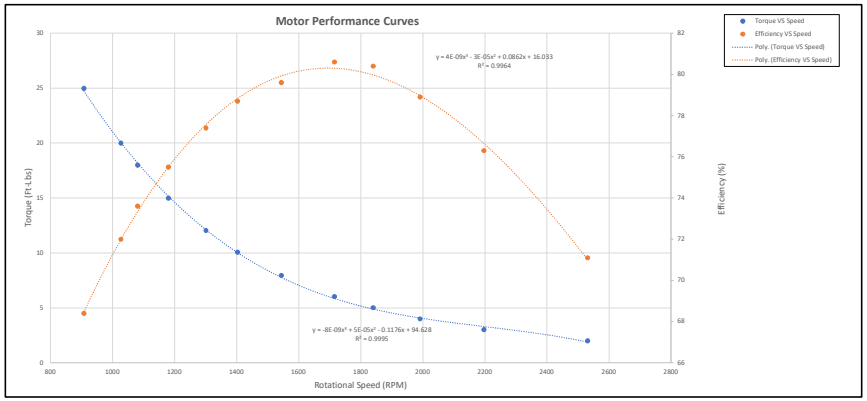
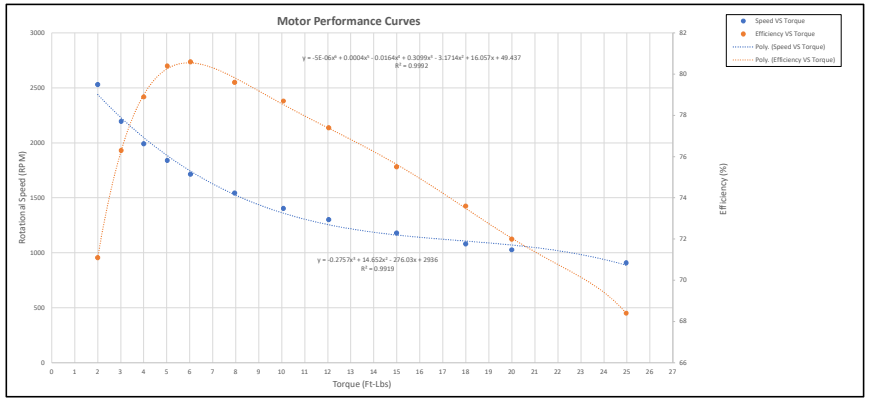
Engineering Performance Test Report

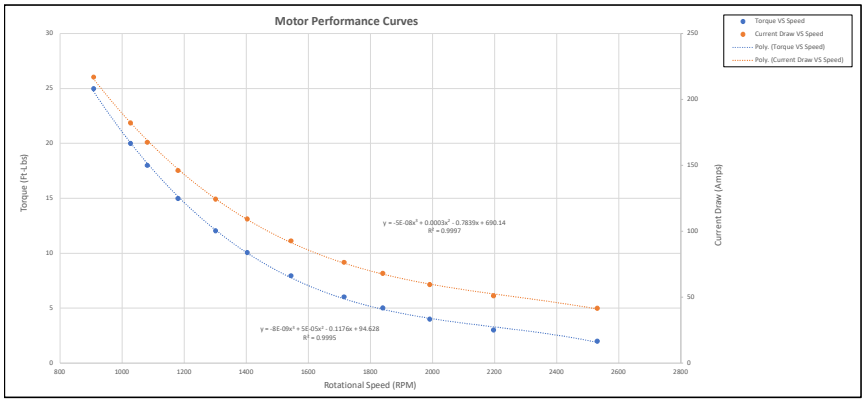
Performance Spec (PS) Number: 11

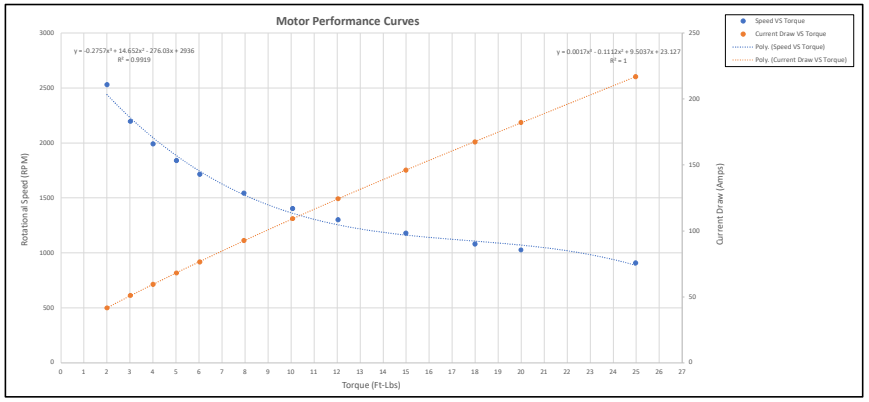
System Voltage [V]: 24 - (I * 0.015)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
2	2531	24.3	41.6	0	0	41.6	1.36	0.96	71.1
3.02	2197	24.2	51.1	0	0	51.1	1.66	1.26	76.3
4	1991	24.1	59.5	0	0	59.5	1.92	1.52	78.9
5.02	1840	24	68.1	0	0	68.1	2.19	1.76	80.4
6.03	1715	23.8	76.5	0	0	76.5	2.44	1.97	80.6
7.95	1544	23.6	92.7	0	0	92.7	2.94	2.34	79.6
10.07	1403	23.4	109.3	0	0	109.3	3.42	2.69	78.7
12.04	1301	23.1	124.4	0	0	124.4	3.86	2.98	77.4
14.99	1180	22.8	146.1	0	0	146.1	4.46	3.37	75.5
17.99	1081	22.4	167.5	0	0	167.5	5.04	3.7	73.6
19.99	1027	22.2	182.2	0	0	182.2	5.43	3.91	72
24.97	908	21.7	216.9	0	0	216.9	6.31	4.32	68.4







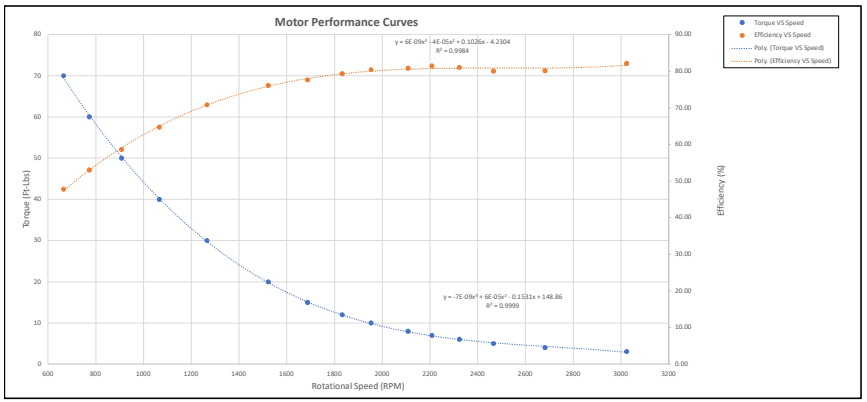


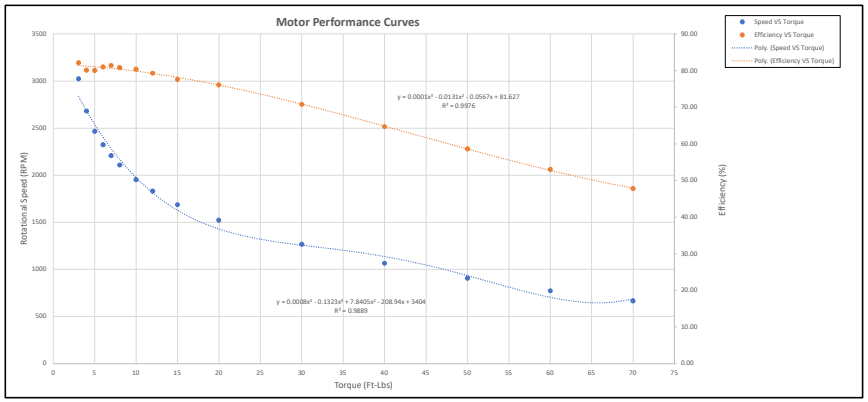
Engineering Performance Test Report

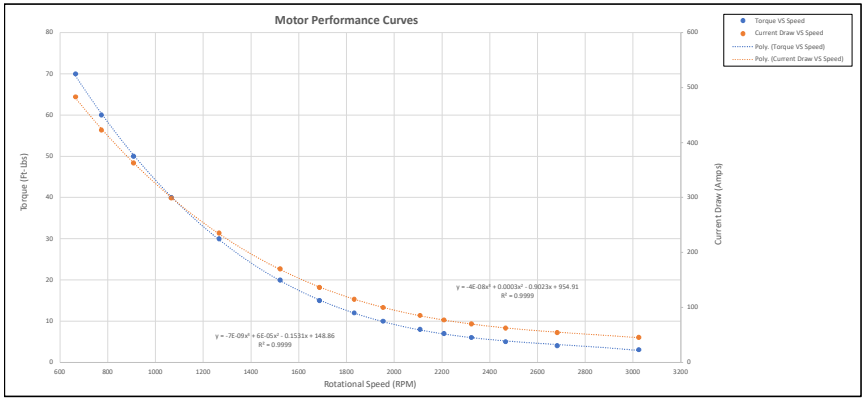
Performance Spec (PS) Number: 11

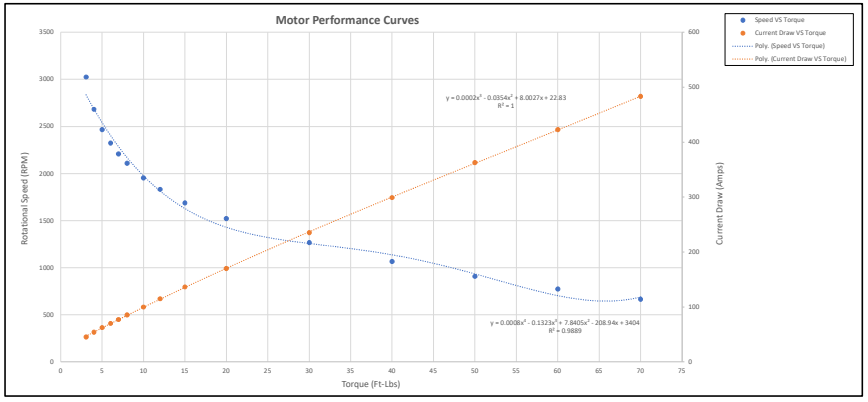
System Voltage [V]: 36 - (I * 0.015)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
3.06	3024	35.4	45.3	0	0	45.3	2.15	1.76	82.10
4.01	2682	35.2	54.1	0	0	54.1	2.55	2.05	80.10
5	2466	35.1	62.4	0	0	62.4	2.93	2.35	80.00
6.01	2323	35	69.9	0	0	69.9	3.28	2.66	81.00
6.98	2208	34.9	77.2	0	0	77.2	3.61	2.93	81.40
8.01	2108	34.8	85.4	0	0	85.4	3.98	3.21	80.80
9.99	1953	34.5	99.8	0	0	99.8	4.62	3.72	80.40
11.99	1832	34.3	114.9	0	0	114.9	5.28	4.18	79.30
14.99	1687	33.9	136.4	0	0	136.4	6.2	4.81	77.60
19.98	1522	33.4	170	0	0	170	7.61	5.79	76.10
30	1266	32.4	235.3	0	0	235.3	10.21	7.23	70.80
39.99	1066	31.3	299.1	0	0	299.1	12.56	8.12	64.70
50	908	30.4	362.8	0	0	362.8	14.76	8.64	58.60
60.01	773	29.4	422.7	0	0	422.7	16.68	8.83	53.00
70	665	28.6	483.1	0	0	483.1	18.55	8.87	47.80







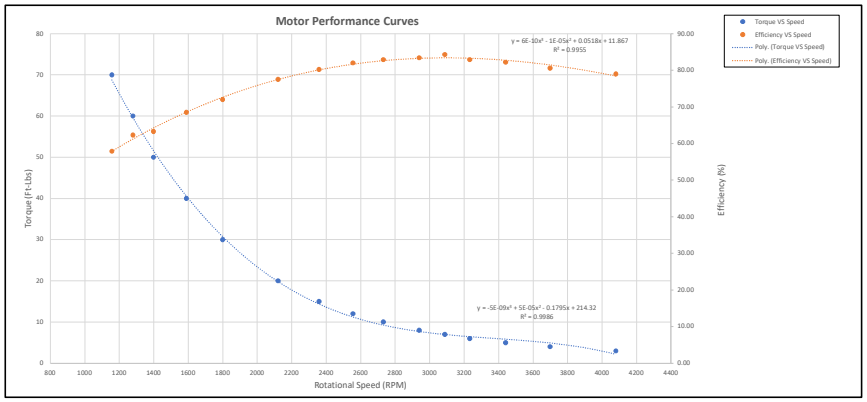


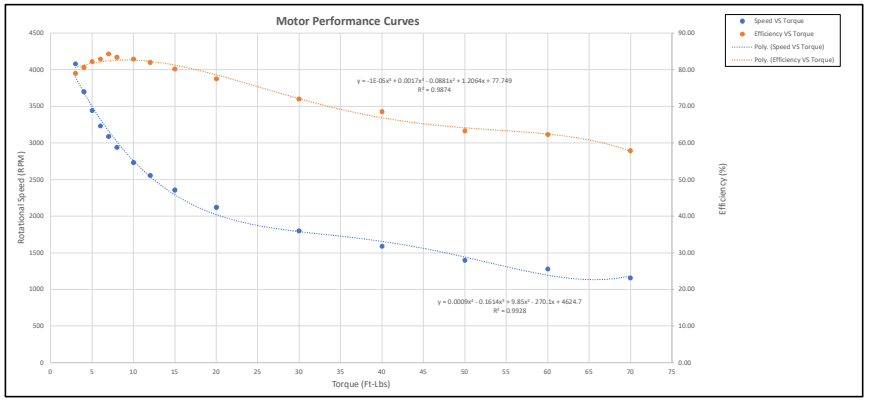
Engineering Performance Test Report

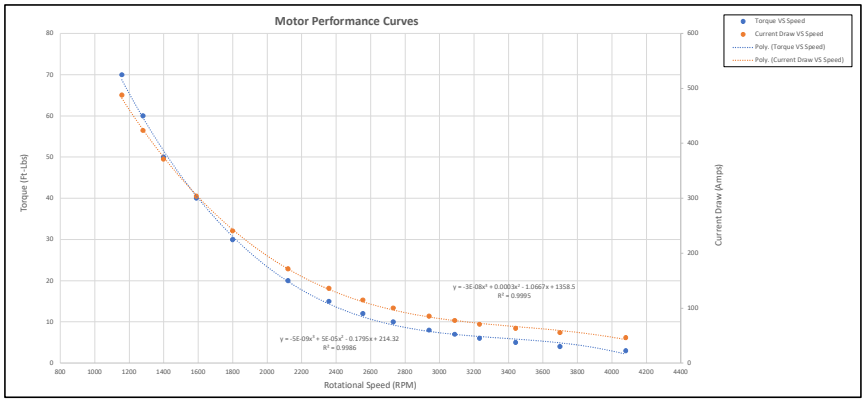
Performance Spec (SP) Number: 11

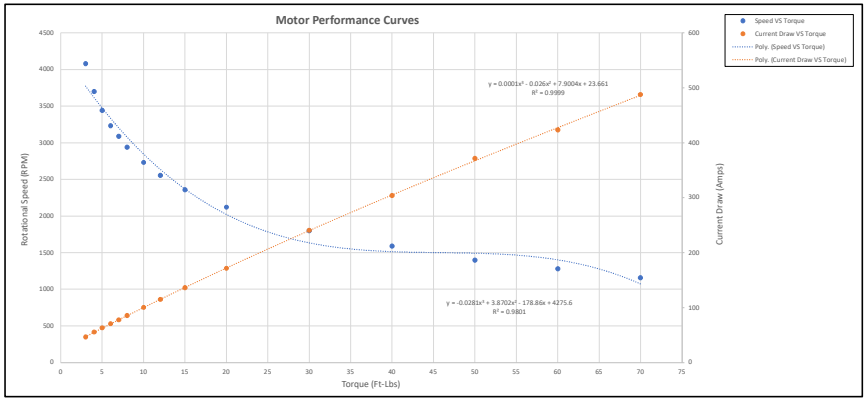
System Voltage [V]: 48 - (I * 0.015)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
3	4080	47.4	46.3	0	0	46.3	2.94	2.33	79.00
4.02	3698	47.3	55.4	0	0	55.4	3.51	2.83	80.60
5.01	3441	47.2	63.1	0	0	63.1	3.99	3.28	82.20
6.01	3232	47.1	70.7	0	0	70.7	4.46	3.7	82.90
7	3088	47	77.6	0	0	77.6	4.89	4.12	84.30
8.01	2939	46.9	85.6	0	0	85.6	5.37	4.48	83.40
10	2731	46.6	100.4	0	0	100.4	6.27	5.2	82.90
12.02	2555	46.4	114.8	0	0	114.8	7.13	5.85	82.00
15	2358	46	136.1	0	0	136.1	8.39	6.73	80.20
20	2121	45.4	171.4	0	0	171.4	10.43	8.08	77.50
29.98	1799	44.3	240.6	0	0	240.6	14.27	10.27	72.00
40	1589	43.4	303.9	0	0	303.9	17.66	12.1	68.50
50	1398	42.2	371.3	0	0	371.3	21.02	13.3	63.30
60.01	1279	41.3	423.4	0	0	423.4	23.46	14.61	62.30
69.98	1157	40.7	487.7	0	0	487.7	26.63	15.42	57.90



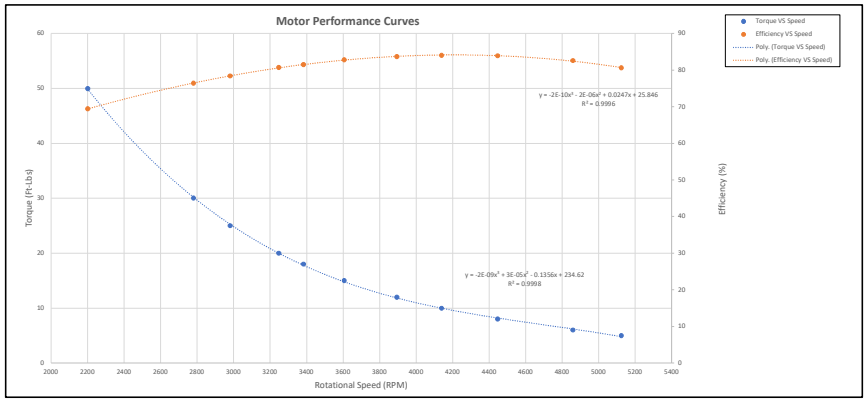
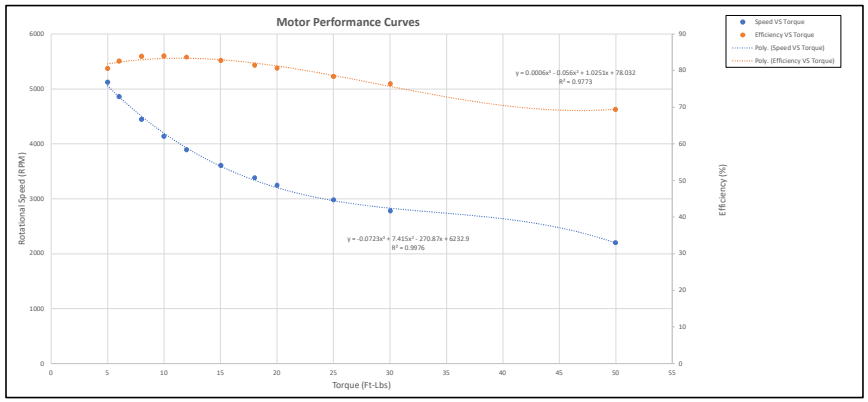
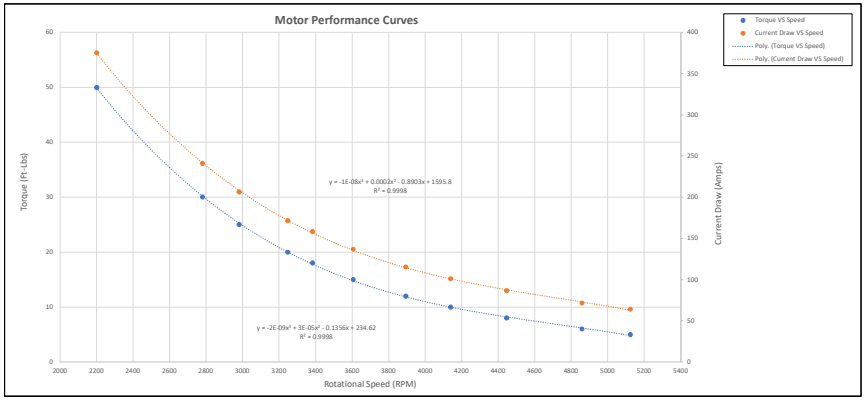
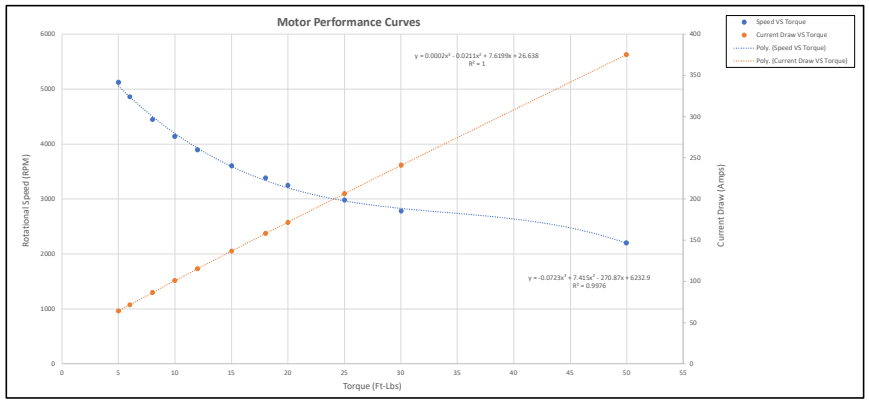






Engineering Performance Test Report

Performance Spec (SP) Number: 11

System Voltage [V]: 72 - (I * 0.030)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
5	5124	70.5	64.1	0	0	64.1	6.06	4.88	80.6
6.01	4859	70.2	71.6	0	0	71.6	6.74	5.56	82.6
8.01	4446	69.7	86.5	0	0	86.5	8.08	6.78	83.9
9.98	4139	69.2	101	0	0	101	9.37	7.86	84
11.99	3894	68.6	115.4	0	0	115.4	10.62	8.89	83.7
15.02	3606	67.9	136.8	0	0	136.8	12.45	10.31	82.8
18.02	3383	67.1	158.2	0	0	158.2	14.24	11.6	81.5
20	3247	66.7	171.5	0	0	171.5	15.33	12.37	80.7
25.01	2981	65.5	206.5	0	0	206.5	18.11	14.2	78.4
30.03	2780	64.4	241.1	0	0	241.1	20.81	15.9	76.4
49.96	2201	60	375.1	0	0	375.1	30.19	20.94	69.4