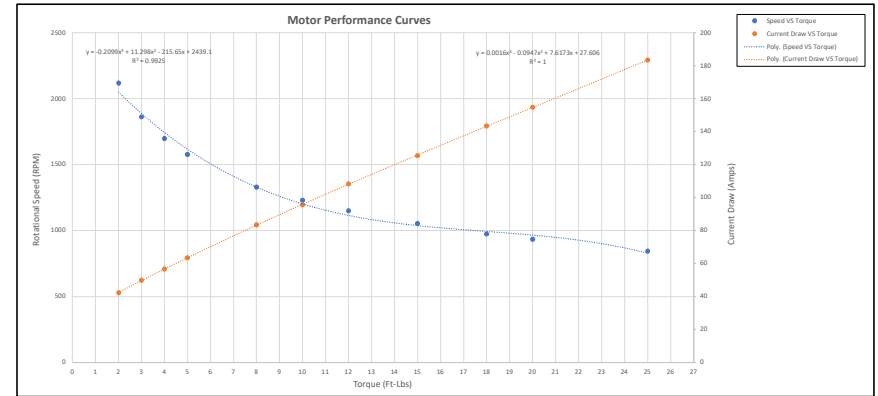
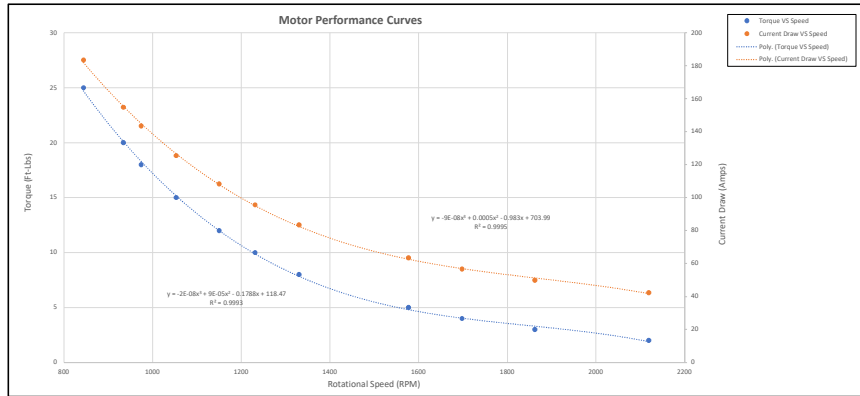
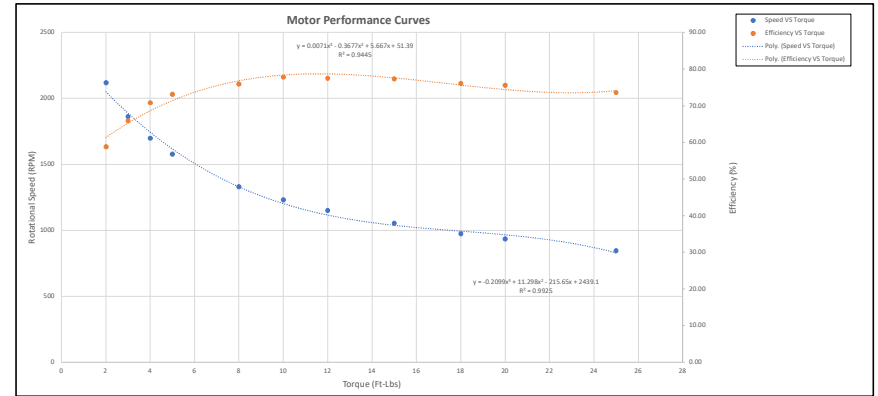
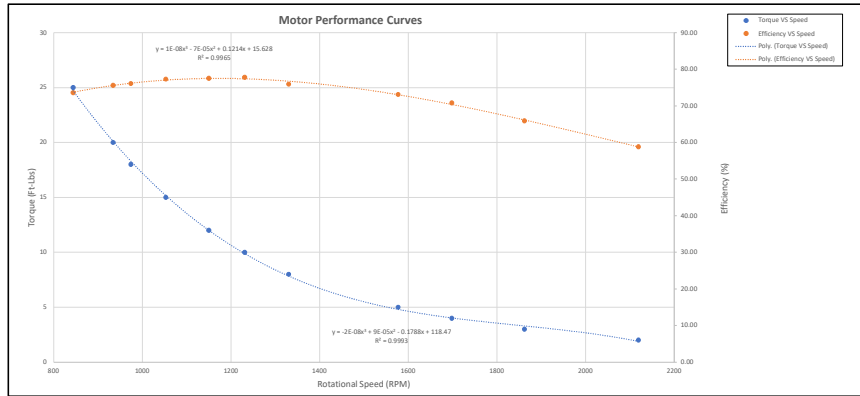


Engineering Performance Test Report

Performance Spec (PS) Number: 29
 System Voltage (V): 24 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	2119	24.3	42.3	0	0	42.3	1.38	0.81	58.80
3	1862	24.2	49.9	0	0	49.9	1.62	1.07	65.90
4	1698	24.1	56.7	0	0	56.7	1.83	1.3	70.80
5	1577	24	63.5	0	0	63.5	2.04	1.49	73.10
8	1330	23.7	83.5	0	0	83.5	2.66	2.02	75.90
10	1221	23.5	95.6	0	0	95.6	3.02	2.35	77.80
12	1150	23.4	108.3	0	0	108.3	3.39	2.63	77.50
15	1053	23.1	125.5	0	0	125.5	3.89	3	77.30
18	974	22.8	143.5	0	0	143.5	4.38	3.33	76.10
20	934	22.6	154.8	0	0	154.8	4.7	3.55	75.60
25	844	22.2	183.5	0	0	183.5	5.46	4.02	73.60

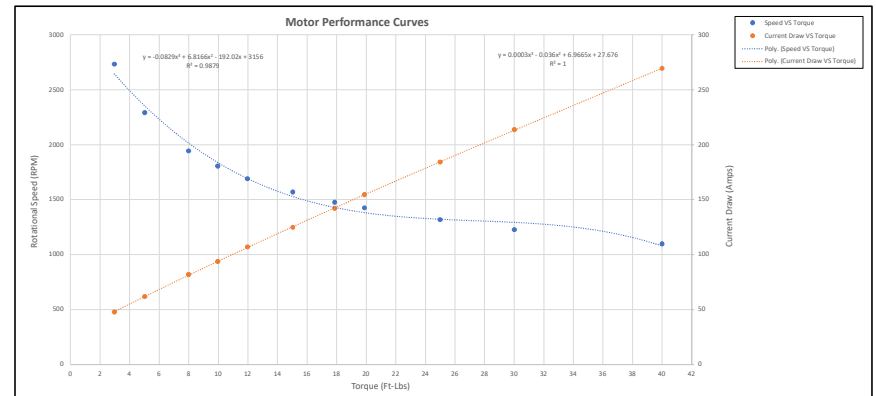
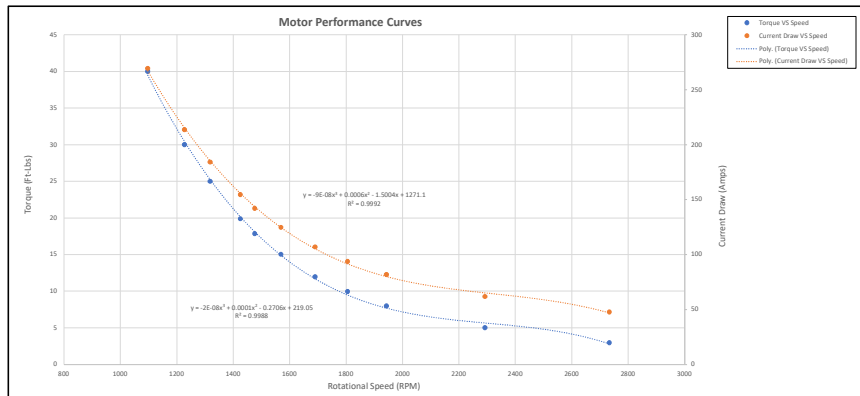
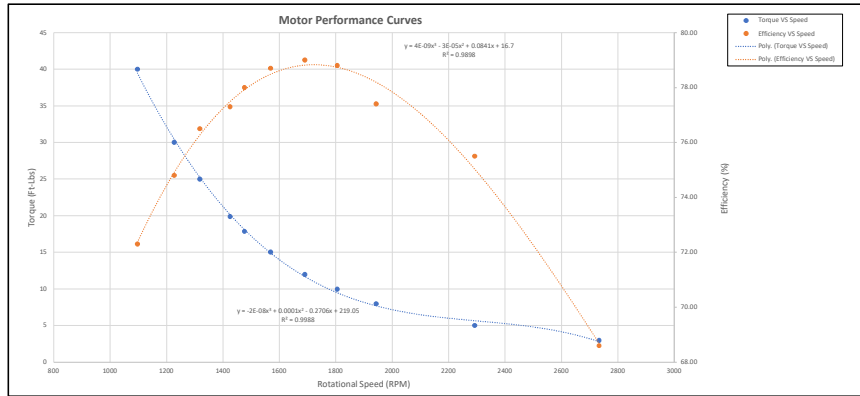


Engineering Performance Test Report

Performance Spec (PS) Number: 29

System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.97	2733	35.3	47.7	0	0	47.7	2.26	1.55	68.60
5.02	2292	35.4	61.8	0	0	61.8	2.91	2.19	75.50
7.98	1943	34.8	81.8	0	0	81.8	3.81	2.95	77.40
9.96	1805	34.6	93.7	0	0	93.7	4.34	3.42	78.80
11.97	1690	34.4	107	0	0	107	4.93	3.85	79.00
15.03	1569	34.1	124.8	0	0	124.8	5.71	4.49	78.70
17.86	1476	33.8	142	0	0	142	6.44	5.02	78.00
19.88	1425	33.7	154.6	0	0	154.6	6.98	5.39	77.30
24.99	1318	33.2	184.2	0	0	184.2	8.19	6.27	76.50
30.01	1227	32.7	213.6	0	0	213.6	9.37	7.01	74.80
40	1097	32	269.5	0	0	269.5	11.55	8.35	72.30

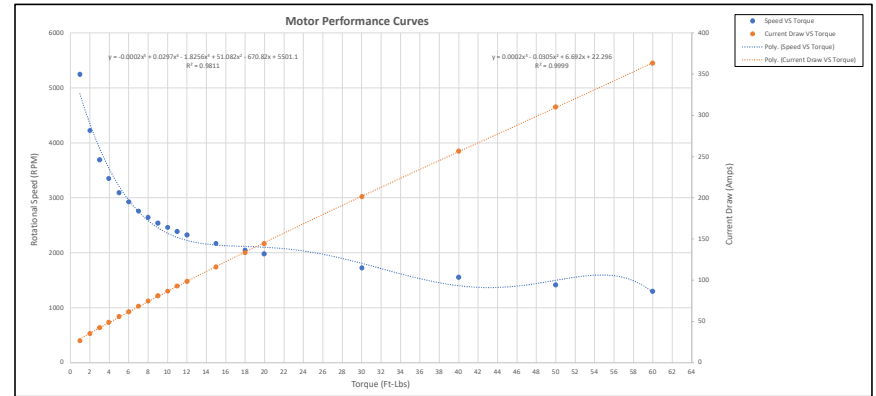
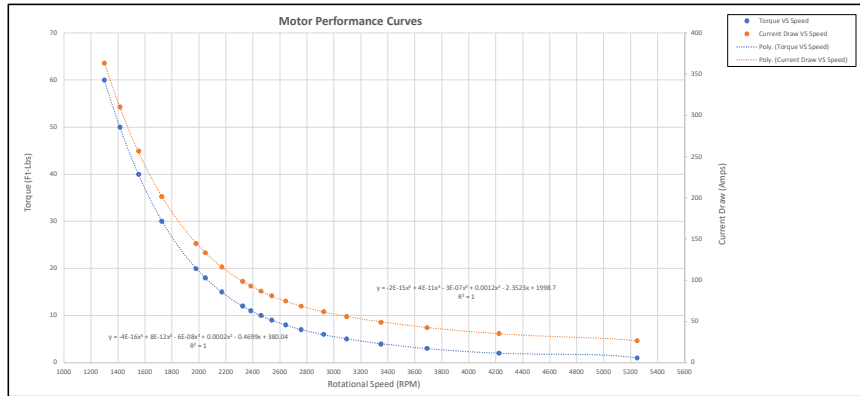
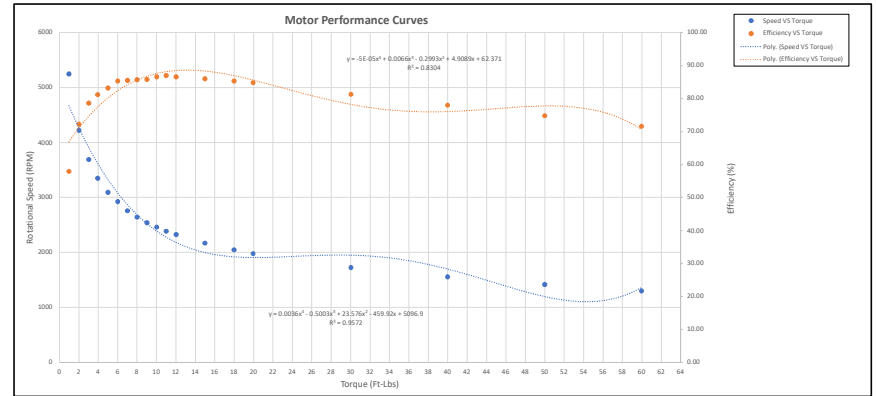
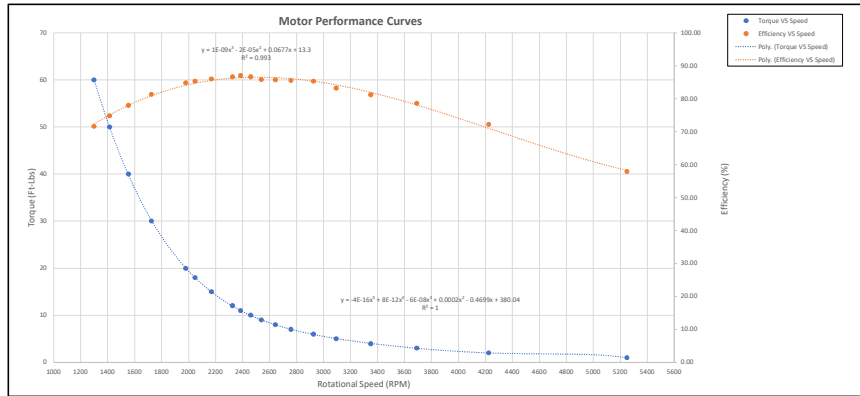


Engineering Performance Test Report

Performance Spec (PS) Number: 29

System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
0.98	5248	47.6	26.5	0	0	26.5	1.69	0.98	57.90
2.01	4224	47.5	25.2	0	0	25.2	2.24	1.67	72.20
3.02	3691	47.4	42.5	0	0	42.5	2.7	2.12	78.60
3.95	3350	47.3	49	0	0	49	3.1	2.52	81.20
5	3094	47.2	56	0	0	56	3.54	2.95	83.20
6.01	2925	47.1	61.8	0	0	61.8	3.9	3.35	85.30
7.01	2758	46.9	68.5	0	0	68.5	4.31	3.68	85.50
8	2643	46.9	74.7	0	0	74.7	4.69	4.03	85.70
9.01	2539	46.8	81	0	0	81	5.08	4.35	85.80
10.02	2460	46.7	86.7	0	0	86.7	5.42	4.69	86.60
10.99	2385	46.6	92.9	0	0	92.9	5.81	4.99	87.00
12.02	2325	46.5	98.5	0	0	98.5	6.14	5.32	86.60
14.99	2169	46.3	115.1	0	0	115.1	7.2	6.19	85.00
17.99	2047	46	133.3	0	0	133.3	8.22	7.01	85.30
19.95	1979	45.8	144.4	0	0	144.4	8.86	7.52	84.80
30.09	1724	44.9	205.4	0	0	205.4	12.13	9.86	81.30
39.99	1554	44.1	256.5	0	0	256.5	15.16	11.83	78.00
49.99	1415	43.3	310.2	0	0	310.2	18.01	13.46	74.80
59.97	1299	42.5	363.3	0	0	363.3	20.7	14.83	71.60

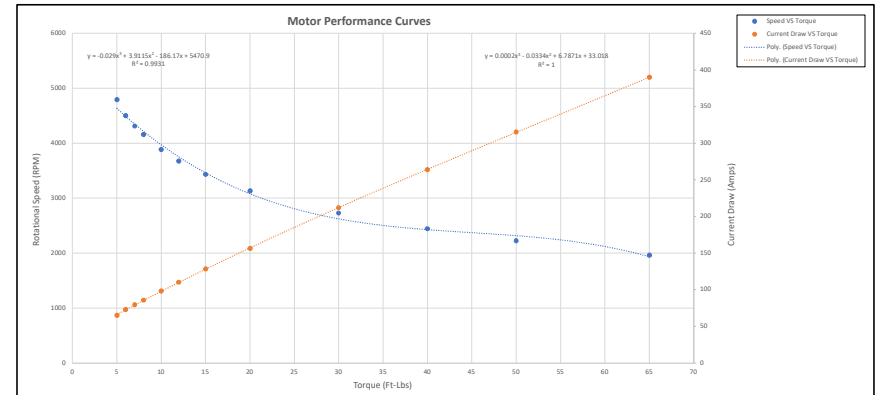
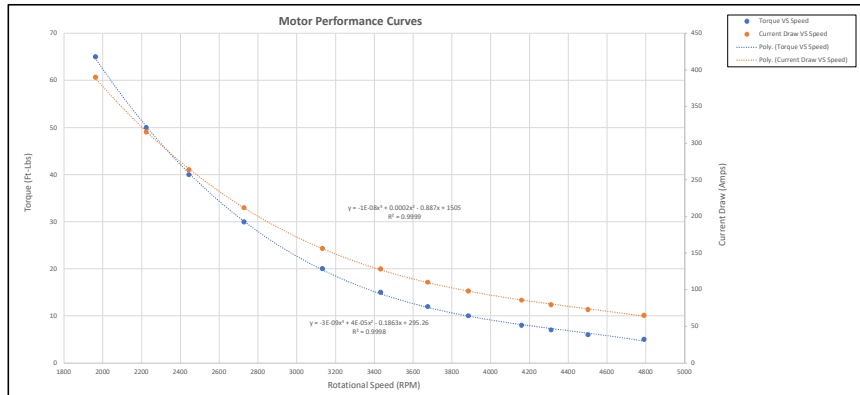
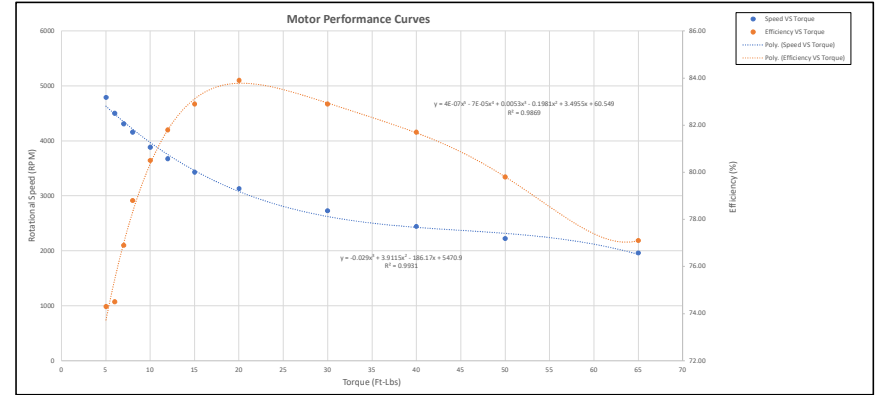
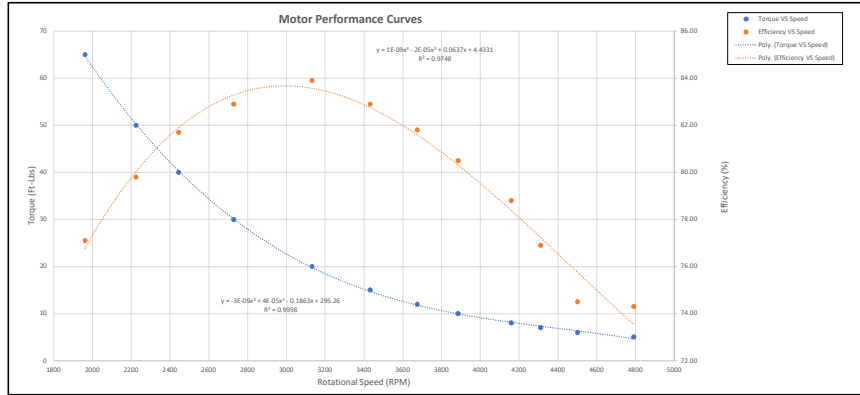


Engineering Performance Test Report

Performance Spec (PS) Number: 29

System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.02	4791	70.8	64.9	0	0	64.9	6.16	4.58	74.30
6	4501	70.6	72.9	0	0	72.9	6.9	5.14	74.50
7.02	4311	70.4	79.5	0	0	79.5	7.5	5.77	76.90
8.02	4159	70.1	85.7	0	0	85.7	8.05	6.35	78.80
10.01	3885	69.8	98.4	0	0	98.4	9.19	7.4	80.50
11.98	3675	69.4	110.2	0	0	110.2	10.25	8.38	81.80
15.01	3432	68.8	128.3	0	0	128.3	11.83	9.81	82.90
20.02	3132	67.9	156.4	0	0	156.4	14.24	11.94	83.90
29.98	2728	66.1	212	0	0	212	18.79	15.57	82.90
39.99	2444	64.4	263.9	0	0	263.9	22.77	18.61	81.70
50	2224	62.7	315.4	0	0	315.4	26.52	21.17	79.80
65.01	1962	60.3	390	0	0	390	31.51	24.29	77.10



Engineering Performance Test Report

Performance Spec (PS) Number: 29

System Voltage (V): 90 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10.01	5167	91.3	94.7	0	0	94.7	11.59	9.85	85.00
12.04	4856	90.6	108.1	0	0	108.1	13.13	11.16	85.00
14.99	4501	89.7	135.5	0	0	135.5	15.1	12.85	85.10
17.96	4224	88.9	141.9	0	0	141.9	16.91	14.45	85.40
20	4061	88.3	153.5	0	0	153.5	18.17	15.47	85.10
25.02	3737	86.8	182.5	0	0	182.5	21.25	17.8	83.80
29.96	3496	85.4	210.3	0	0	210.3	24.08	19.94	82.80

