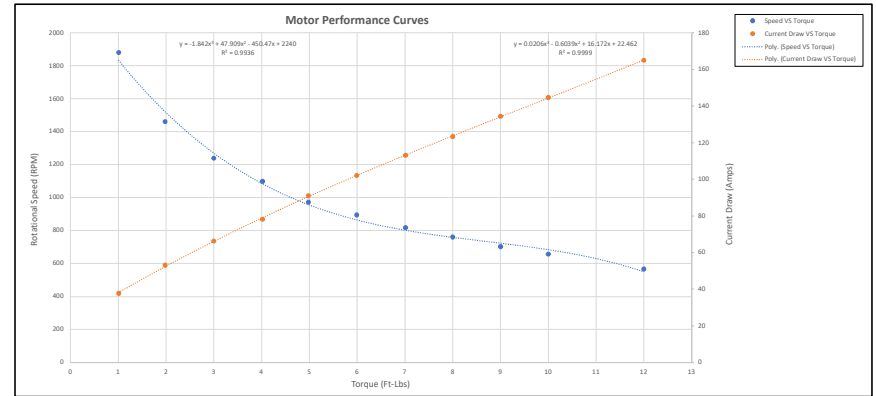
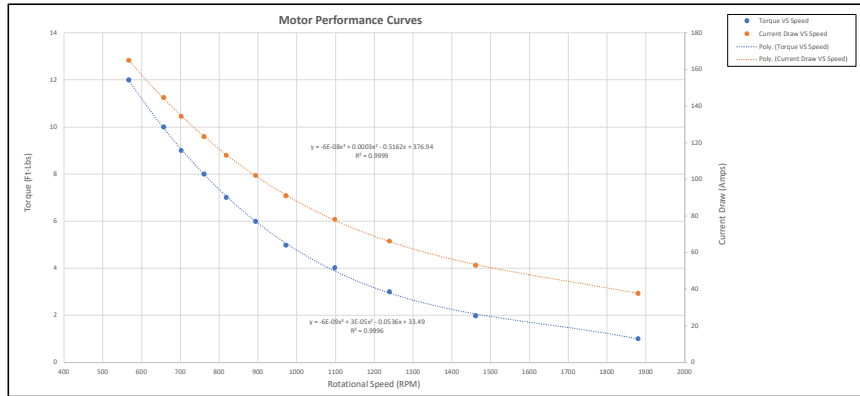
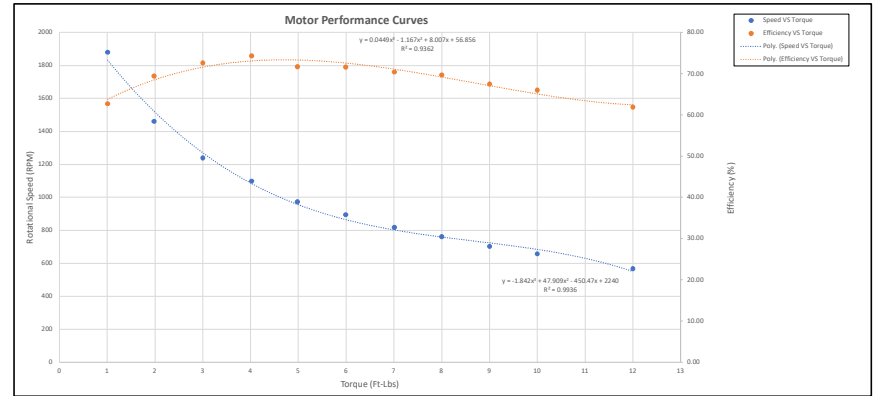
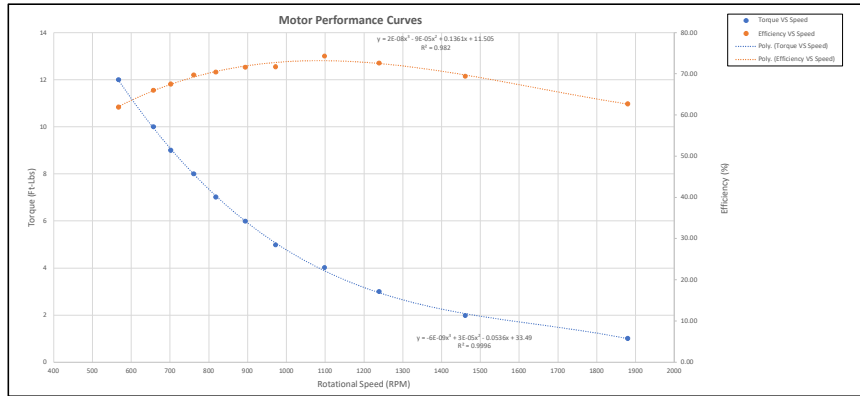


Engineering Performance Test Report

Performance Specification (PS): 27

System Voltage (V): 12 - (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 (%)
1.01	1880	11.4	37.7	0	0	37.7	0.57	0.36	62.70
1.98	1461	11.1	33.3	0	0	33.3	0.79	0.55	69.48
3	1139	11	66.3	0	0	66.3	0.97	0.71	72.60
4.02	1098	10.8	78.2	0	0	78.2	1.13	0.84	74.30
4.98	972	10.5	91	0	0	91	1.29	0.92	71.70
5.99	894	10.4	102.1	0	0	102.1	1.42	1.02	71.60
7.01	818	10.2	113.1	0	0	113.1	1.55	1.09	70.40
8	761	10.1	123.3	0	0	123.3	1.66	1.16	69.70
9	702	9.9	134.4	0	0	134.4	1.79	1.2	67.50
10	657	9.8	144.7	0	0	144.7	1.90	1.25	65.00
12	567	9.5	165	0	0	165	2.1	1.3	61.90

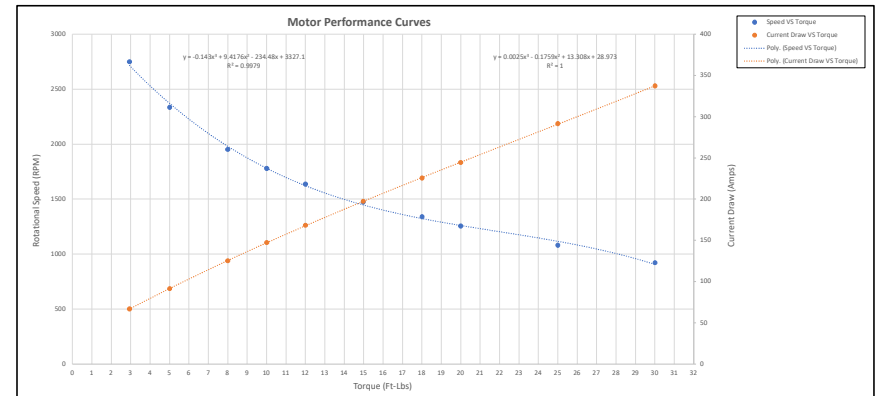
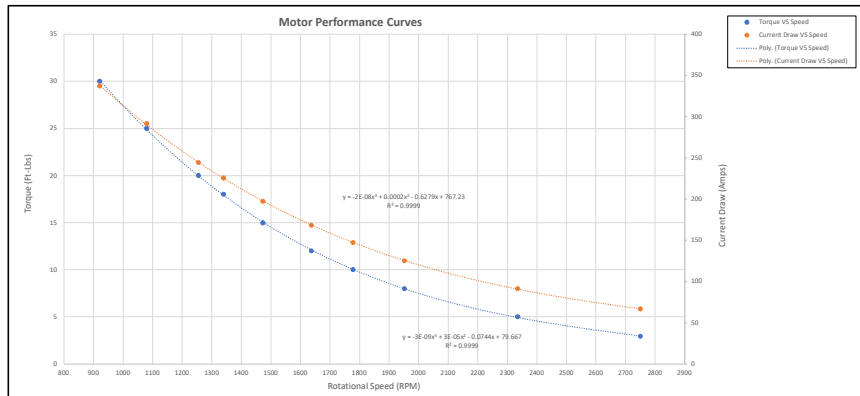
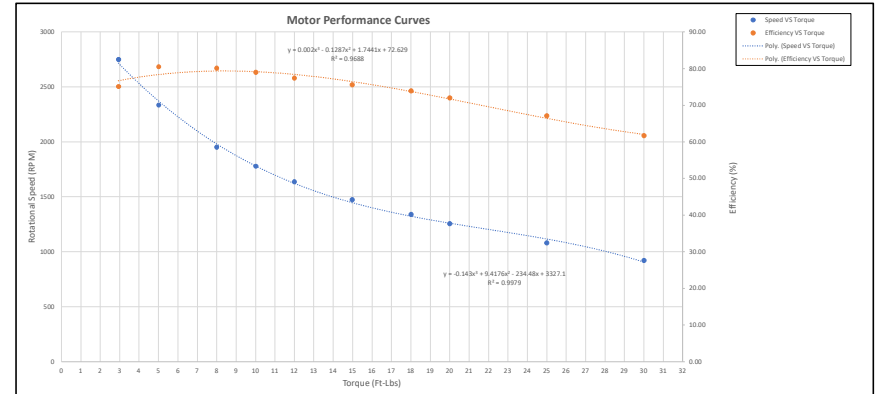
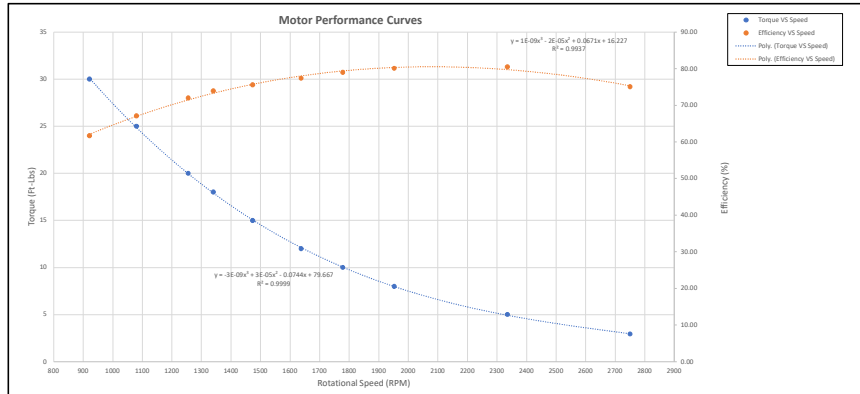


Engineering Performance Test Report

Performance Specification (PS): 27

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 (%)
2.94	2750	23	66.7	0	0	66.7	2.05	1.54	75.10
5.01	2335	22.6	91.4	0	0	91.4	2.77	2.23	80.50
8	1952	22.1	125.2	0	0	125.2	3.71	2.97	80.10
10.01	1778	21.7	147.3	0	0	147.3	4.29	3.39	79.00
12	1637	21.4	168.2	0	0	168.2	4.83	3.74	77.40
14.98	1473	21	197.4	0	0	197.4	5.56	4.2	75.60
18.01	1340	20.6	225.5	0	0	225.5	6.22	4.6	73.90
20	1255	20.3	244.4	0	0	244.4	6.64	4.78	72.00
25	1080	19.6	291.6	0	0	291.6	7.66	5.14	67.10
30.01	921	18.9	327.3	0	0	327.3	8.53	5.26	61.70

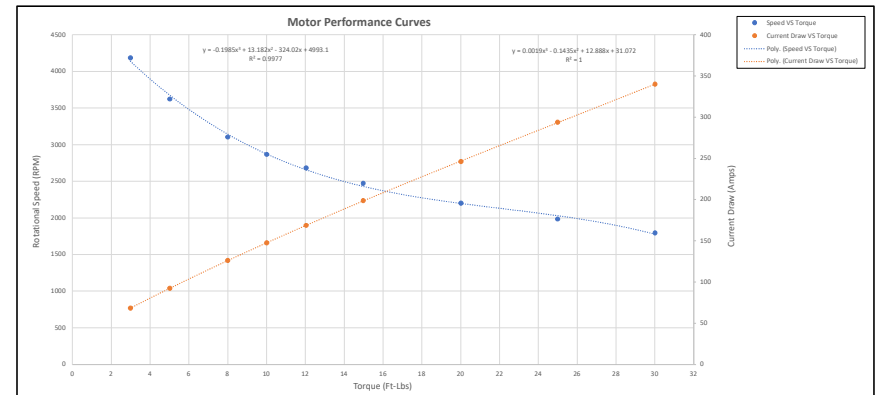
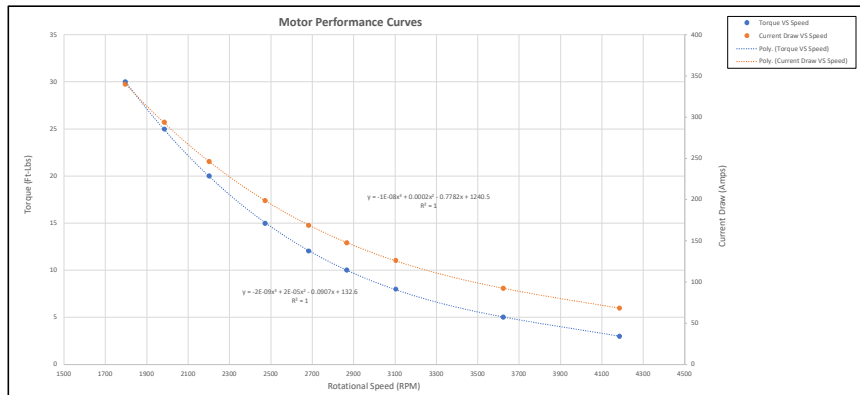
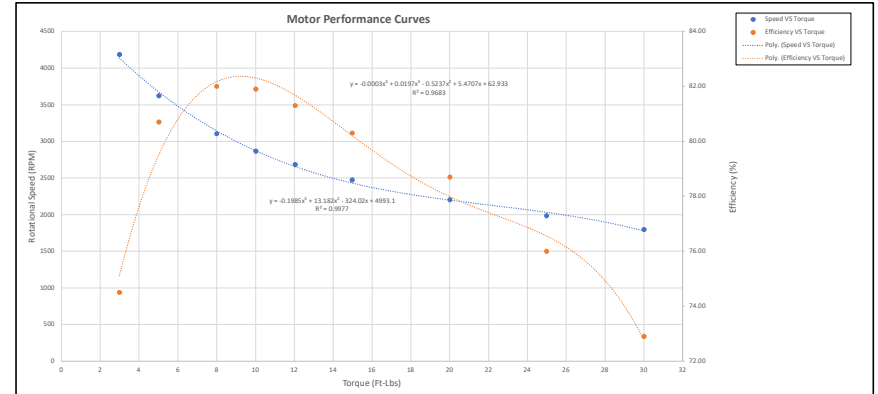
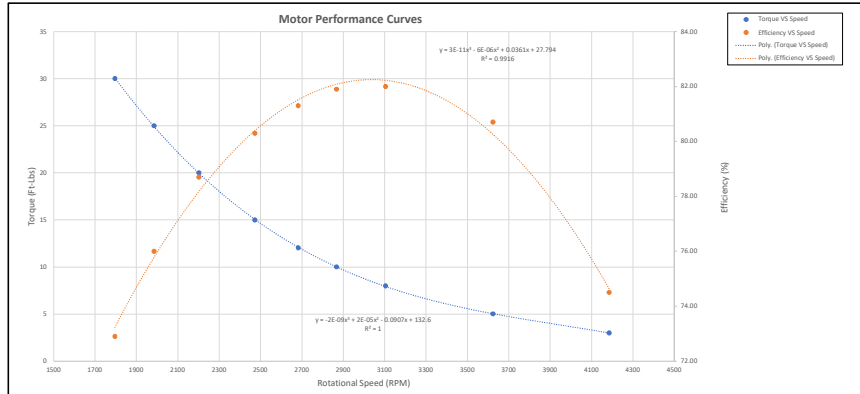


Engineering Performance Test Report

Performance Specification (PS): 27

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 (%)
2.99	4185	35	68.3	0	0	68.3	3.2	2.39	74.50
5.02	3628	34.6	92.8	0	0	92.4	4.29	3.46	80.70
8	3104	34.1	136.2	0	0	126.2	5.77	4.73	82.00
10.01	2867	33.8	147.5	0	0	147.5	6.67	5.46	81.90
12.04	2682	33.4	168.7	0	0	168.7	7.56	6.15	81.30
14.98	2472	33	198.6	0	0	198.6	8.78	7.05	80.30
20.01	2202	32.3	246.2	0	0	246.2	10.66	8.39	78.70
24.99	1985	31.6	293.8	0	0	293.8	12.43	9.45	76.00
30.01	1796	30.9	340	0	0	340	14.08	10.26	72.90



Engineering Performance Test Report

Performance Specification (PS): 27

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 (%)
5	4739	46.6	88.4	0	0	88.4	5.52	4.51	81.70
8.02	4087	46.4	122.3	0	0	122.3	7.55	6.24	82.60
10	3801	45.7	144.9	0	0	144.9	8.87	7.24	81.60
12	3601	45.4	166.2	0	0	166.2	10.1	8.23	81.50
14.99	3363	44.9	197	0	0	197	11.85	9.6	81.00
19	3061	44.1	247.7	0	0	247.7	14.65	11.65	79.60
25.02	2806	43.4	299.4	0	0	299.4	17.42	13.37	76.70

