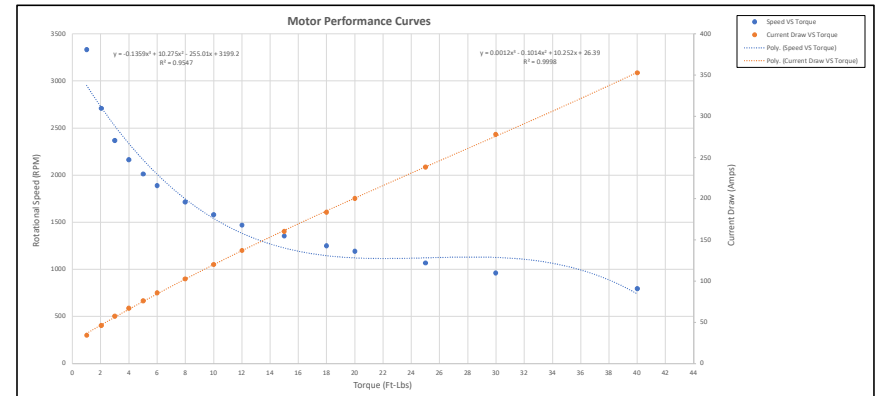
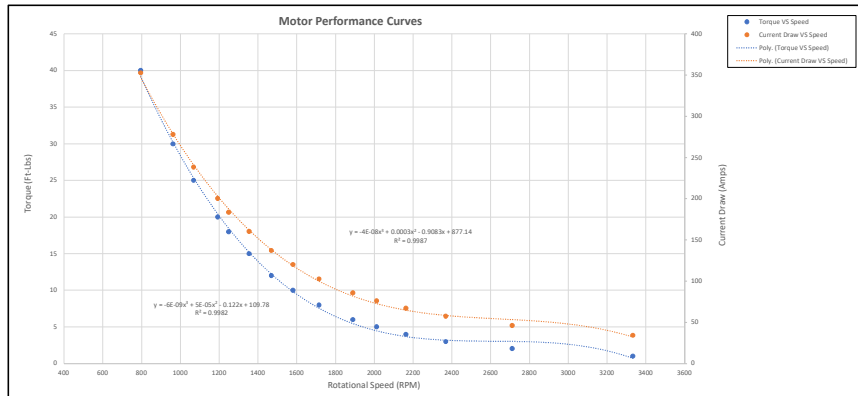
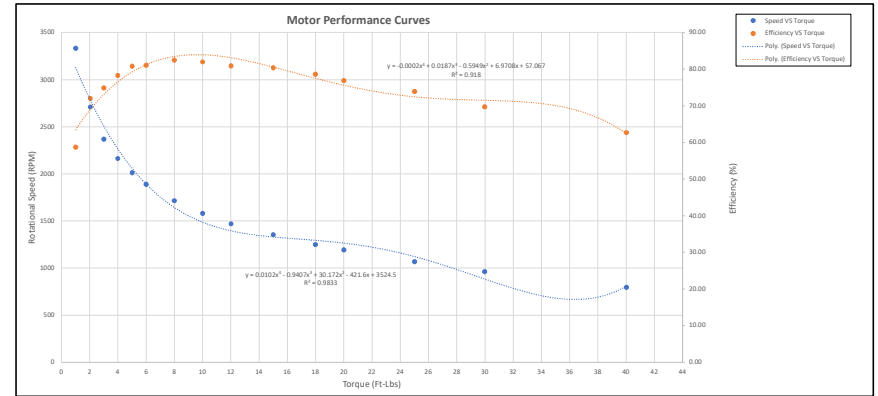
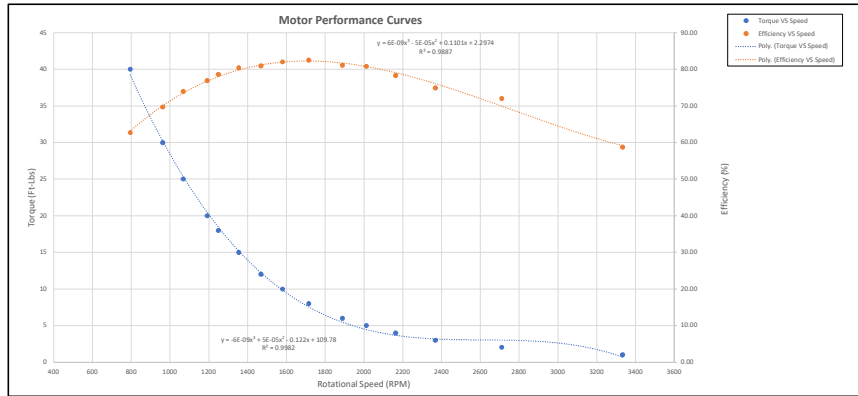


Engineering Performance Test Report

Performance Specification (PS): 56

System Voltage (V): 24 (V ± 0.015)

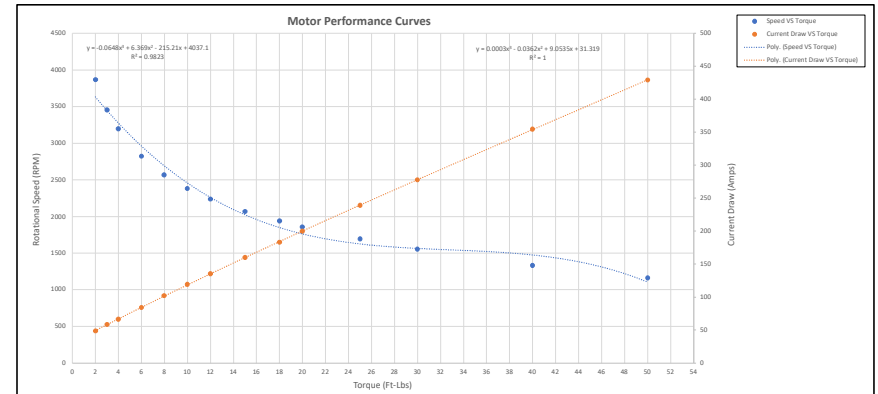
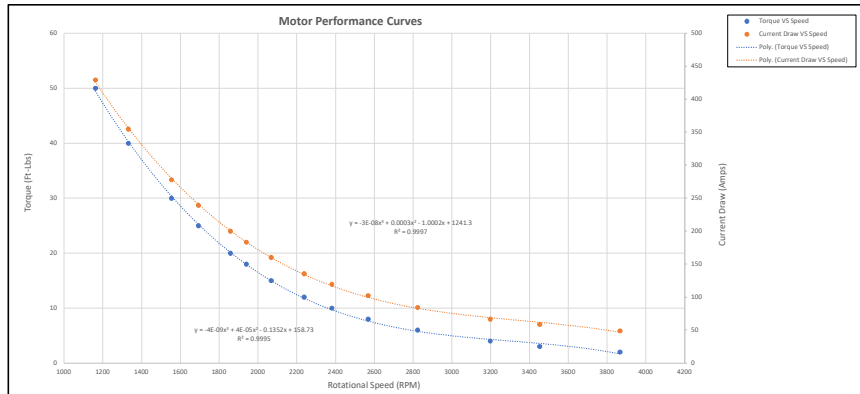
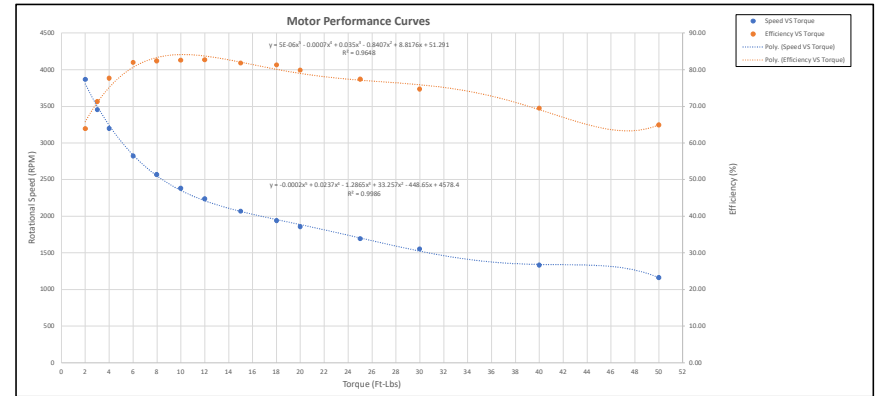
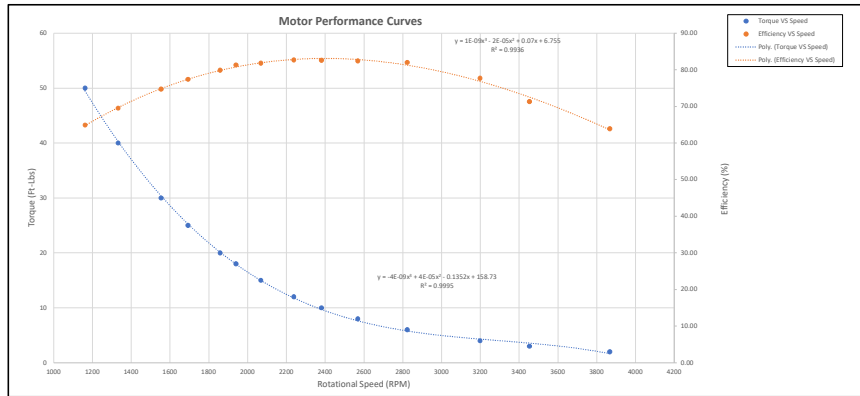
Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.01	3333	23.7	34.3	0	0	34.3	1.09	0.64	58.70
2.04	2710	23.5	46.2	0	0	46.2	1.46	1.05	72.00
3	2368	23.5	57.5	0	0	57.5	1.81	1.35	74.60
3.99	2163	23.3	67	0	0	67	2.1	1.64	78.30
5.01	2012	23.3	76.1	0	0	76.1	2.37	1.92	80.80
6	1889	23.2	85.7	0	0	85.7	2.66	2.16	81.10
7.99	1715	23	102.7	0	0	102.7	3.16	2.61	82.50
10	1580	22.8	120.2	0	0	120.2	3.67	3.01	82.00
12.01	1469	22.6	137.2	0	0	137.2	4.15	3.36	80.90
15	1354	22.4	160.3	0	0	160.3	4.91	3.87	80.40
17.99	1249	22.1	183.5	0	0	183.5	5.45	4.28	78.60
20	1192	22	200.4	0	0	200.4	5.9	4.54	76.90
25.01	1068	21.5	238.4	0	0	238.4	6.88	5.09	73.90
29.98	962	21.1	278	0	0	278	7.88	5.49	69.70
40.01	795	20.4	352.7	0	0	352.7	9.66	6.06	62.70



Engineering Performance Test Report

Performance Specification (PS): 56
 System Voltage (V): 36 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	3867	35.4	48.7	0	0	48.7	2.31	1.48	63.90
3	3453	35.2	58.5	0	0	58.5	2.76	1.97	71.36
3.99	3198	35.1	66.4	0	0	66.4	3.15	2.43	77.20
6	2823	34.9	84.2	0	0	84.2	3.93	3.23	82.00
7.97	2568	34.6	102.1	0	0	102.1	4.73	3.9	82.40
9.98	2381	34.3	119.3	0	0	119.3	5.48	4.53	82.60
11.99	2238	34	135.4	0	0	135.4	6.18	5.11	82.70
15	2068	33.7	160.1	0	0	160.1	7.23	5.91	81.80
18	1940	33.3	183.2	0	0	183.2	8.17	6.65	81.30
19.98	1858	33	199.8	0	0	199.8	8.95	7.07	79.90
25	1693	32.5	239.2	0	0	239.2	10.41	8.06	77.40
29.98	1554	31.9	277.9	0	0	277.9	11.88	8.87	76.70
39.99	1322	30.7	354.7	0	0	354.7	14.6	10.15	69.50
50	1162	29.6	429.3	0	0	429.3	17.04	11.06	64.90

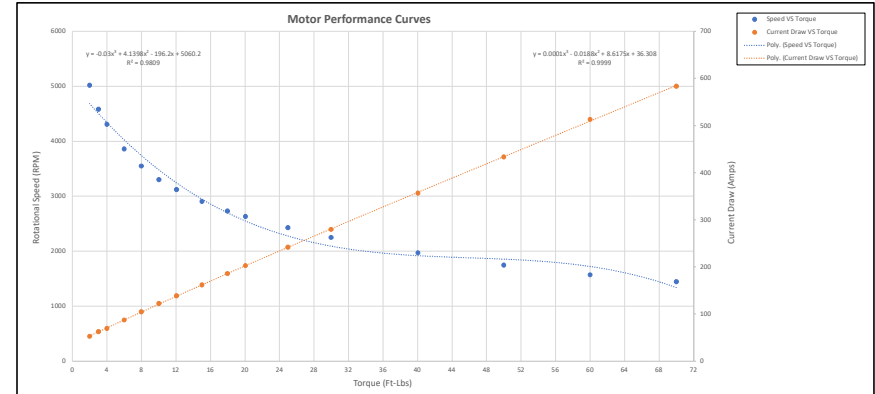
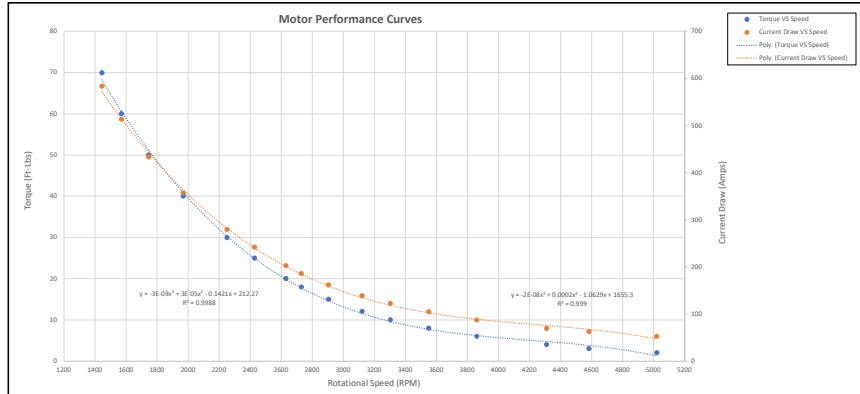
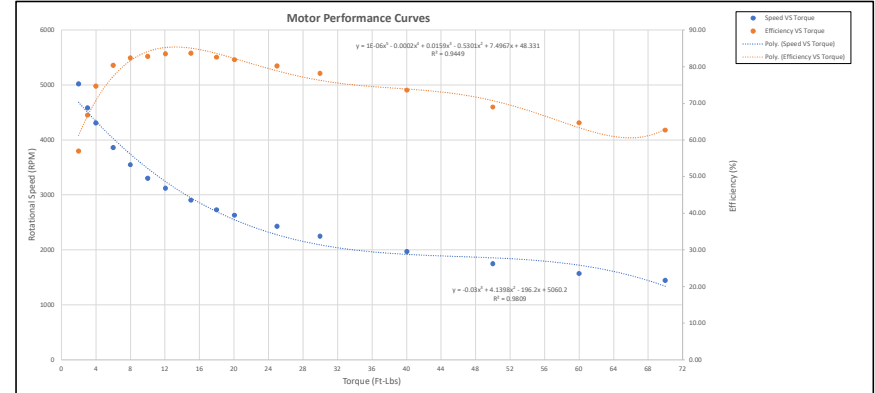
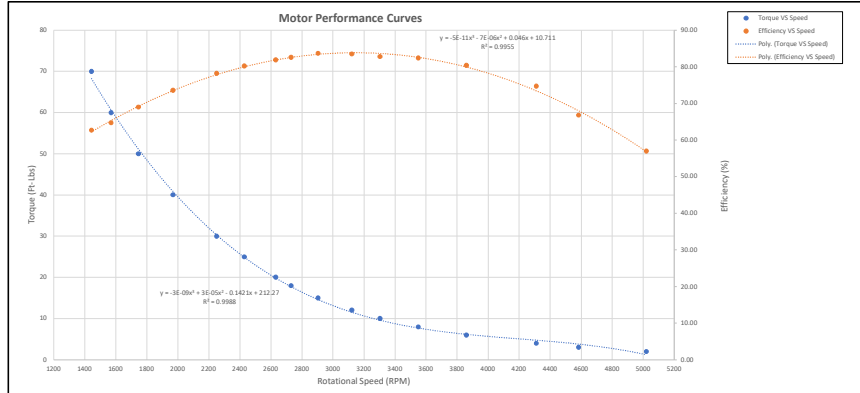


Engineering Performance Test Report

Performance Specification (PS): 56

System Voltage (V): 48 - (V ± 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 (%)
1.99	5020	47.5	52.5	0	0	52.5	3.34	1.9	57.00
3.02	4583	47.3	62.2	0	0	62.2	3.94	2.63	66.86
3.99	4310	47.2	69.3	0	0	69.3	4.39	3.28	74.70
6	3860	46.9	87.1	0	0	87.1	5.48	4.41	80.40
7.98	3550	46.7	104.7	0	0	104.7	6.55	5.39	82.40
10.01	3303	46.4	122.4	0	0	122.4	7.61	6.3	83.80
12.06	3121	46.2	138.7	0	0	138.7	8.58	7.17	83.50
15.01	2904	45.8	161.8	0	0	161.8	9.92	8.3	83.70
17.97	2730	45.4	185.8	0	0	185.8	11.31	9.34	82.60
20.95	2631	45.1	202.7	0	0	202.7	12.36	10.04	81.90
24.98	2428	44.5	241.7	0	0	241.7	14.4	11.55	80.20
29.97	2250	43.8	279.5	0	0	279.5	16.42	12.84	78.20
40.04	2069	42.7	356.6	0	0	356.6	20.39	15.01	73.60
49.99	1745	41.5	433.2	0	0	433.2	24.08	16.62	69.00
59.99	1570	40.3	513.2	0	0	513.2	27.7	17.93	64.70
69.98	1444	39.3	583.5	0	0	583.5	30.7	19.24	62.70



Engineering Performance Test Report

Performance Specification (PS): 56

System Voltage (V): 72 - (V ± 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Analogic Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.99	5676	69.7	76.8	0	0	76.8	7.17	5.39	75.20
8.01	4919	68.8	105.5	0	0	105.5	9.73	7.5	77.10
9.92	4488	68.2	124	0	0	124	11.33	8.48	77.40
12.02	4330	67.7	140.7	0	0	140.7	12.76	9.91	78.00
15.04	3980	66.9	166.9	0	0	166.9	14.97	11.4	77.70
18.03	3772	66.2	192.2	0	0	192.2	17.05	12.65	77.10
19.94	3707	65.8	204.8	0	0	204.8	18.05	14.07	76.20

