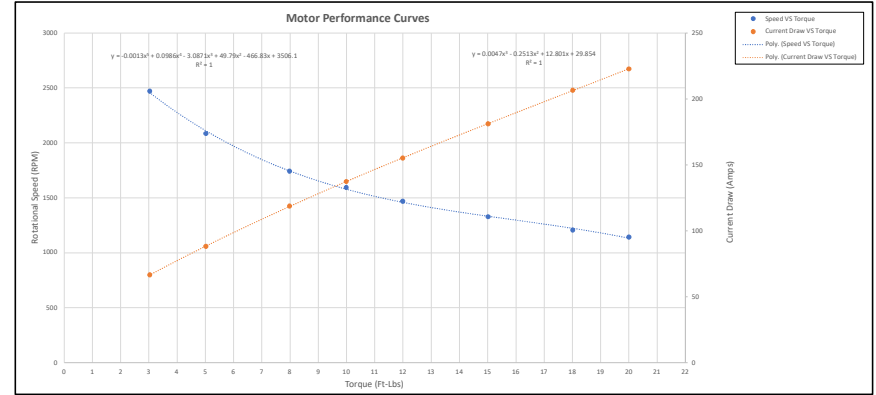
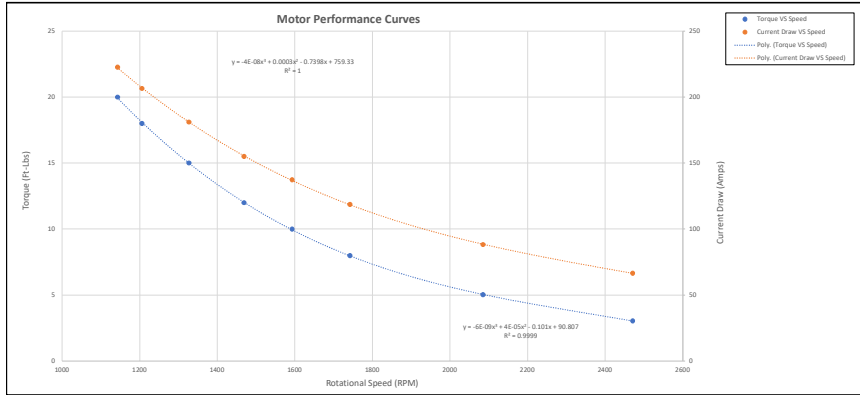
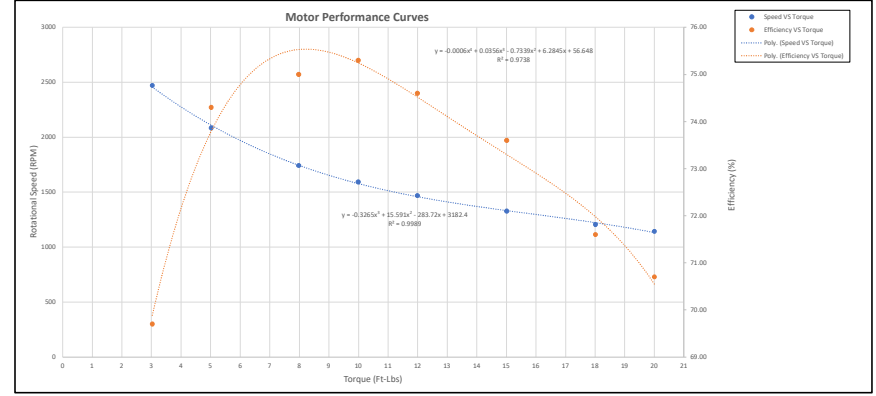
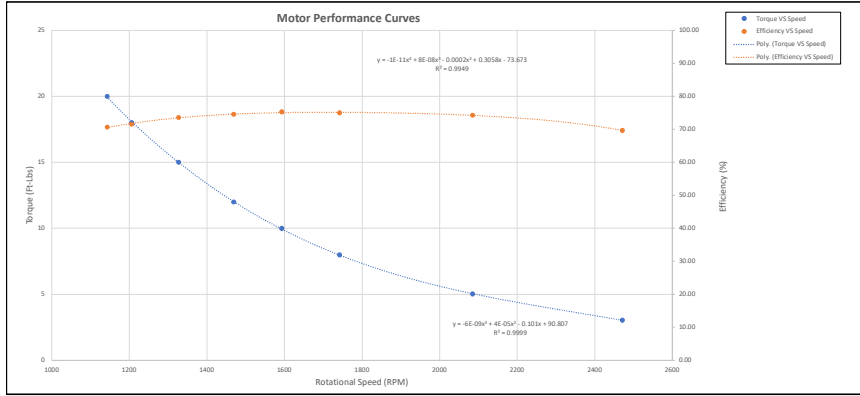


Engineering Performance Test Report

Performance Spec (PS) Number: 25
 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 (%)
3.03	2471	23	66.5	0	0	66.5	2.05	1.42	69.70
5.07	2085	22.7	68.2	0	0	68.2	2.56	1.99	74.26
7.98	1742	22.2	138.7	0	0	138.7	3.53	2.65	75.00
9.99	1593	21.9	137.3	0	0	137.3	4.02	3.03	75.30
11.99	1469	21.6	155.1	0	0	155.1	4.5	3.35	74.60
15.01	1327	21.2	181.1	0	0	181.1	5.15	3.79	73.66
18.01	1206	20.9	206.6	0	0	206.6	5.77	4.13	71.60
20	1143	20.6	222.7	0	0	222.7	6.16	4.35	70.70

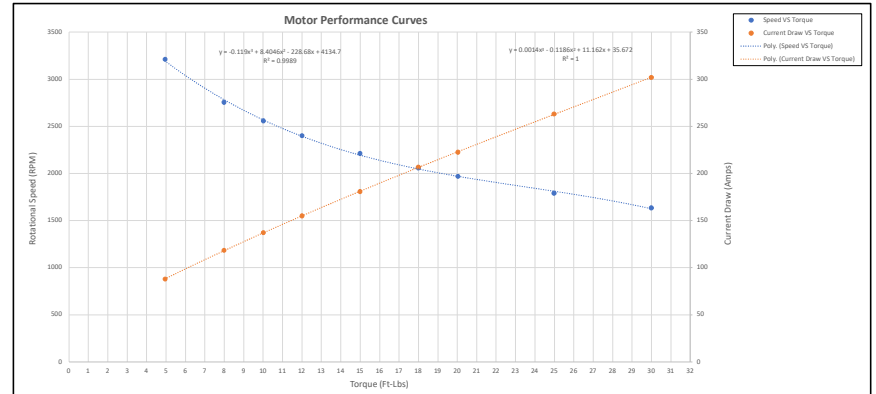
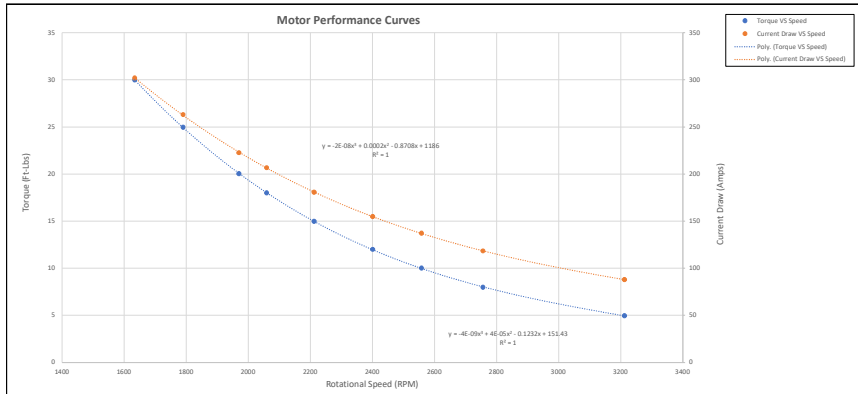
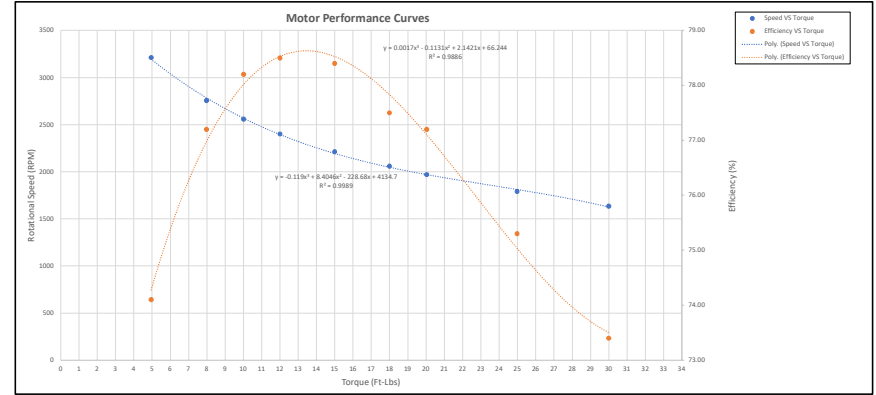
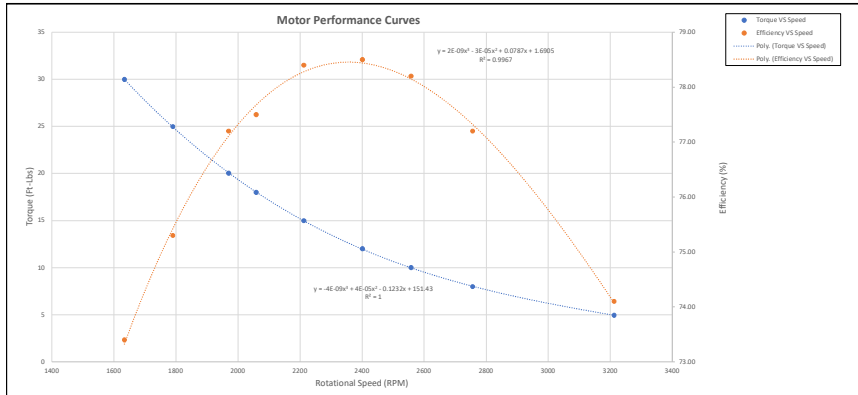


Engineering Performance Test Report

Performance Spec (PS) Number: 25

System Voltage (V): 36 (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Analogic Voltage (Volts)	Analogic Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.95	3212	34.7	87.9	0	0	87.9	4.09	3.03	74.10
7.98	2756	34.7	118.4	0	0	118.4	5.43	4.19	77.20
10.01	2558	33.9	137.1	0	0	137.1	6.24	4.87	78.20
12	2401	33.7	154.9	0	0	154.9	6.99	5.49	78.50
14.99	2212	33.2	180.7	0	0	180.7	8.05	6.31	78.40
17.99	2059	32.9	206.7	0	0	206.7	9.1	7.05	77.50
20.03	1970	32.6	222.6	0	0	222.6	9.73	7.51	77.20
24.98	1790	32.1	263.1	0	0	263.1	11.31	8.52	75.30
29.99	1634	31.4	301.9	0	0	301.9	12.71	9.33	73.40

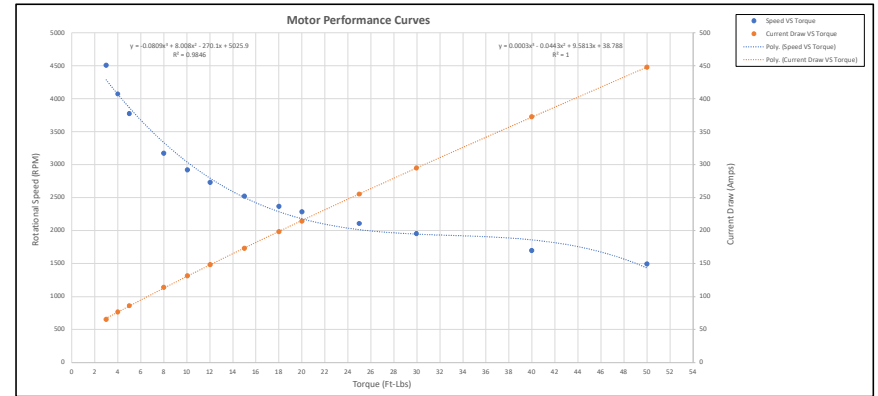
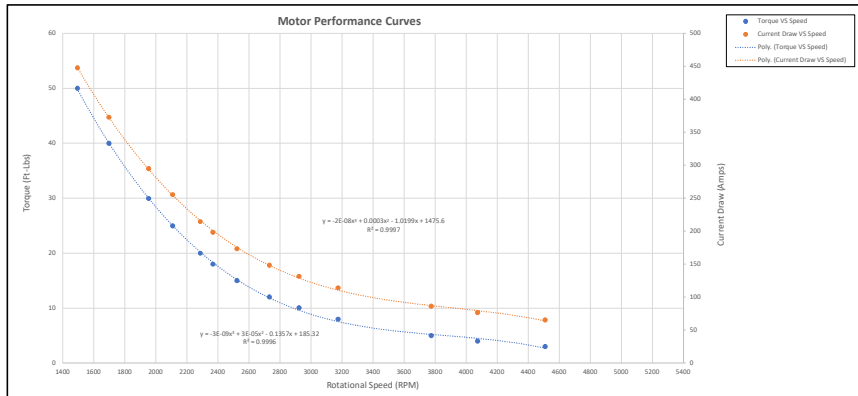
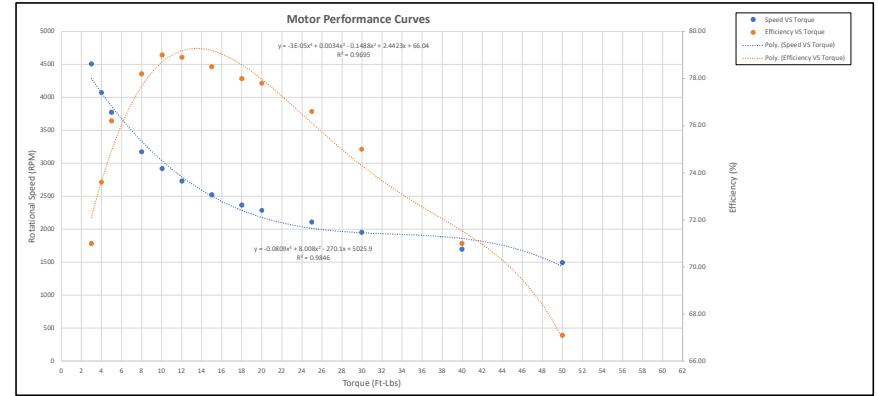
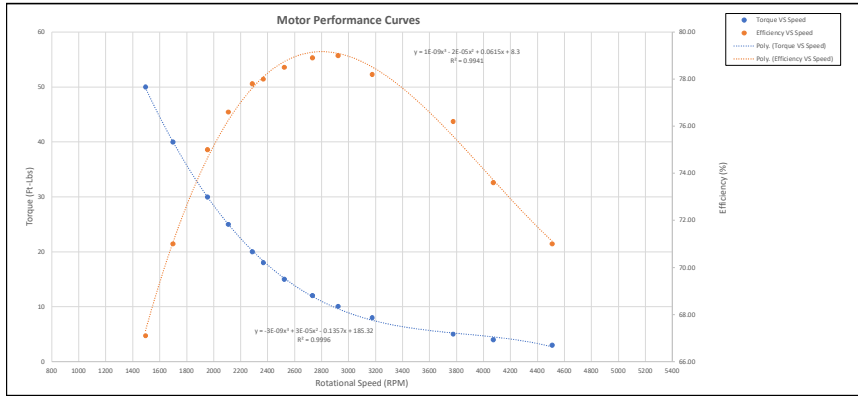


Engineering Performance Test Report

Performance Spec (SP) Number: 25

System Voltage [V]: 42 - (I * 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	4509	41.2	65.5	0	0	65.5	3.61	2.57	71.00
4	4073	41	76.6	0	0	76.6	4.21	3.1	73.90
5	3775	40.9	86.1	0	0	86.1	4.71	3.59	76.20
7.99	3175	40.4	114.1	0	0	114.1	6.18	4.83	78.20
10.05	2922	40.1	131.6	0	0	131.6	7.07	5.59	79.00
12.03	2732	39.9	148.4	0	0	148.4	7.93	6.26	78.90
15	2523	39.5	173.3	0	0	173.3	9.18	7.21	78.50
18.01	2368	39.2	198.3	0	0	198.3	10.41	8.12	78.00
20	2286	38.9	214.6	0	0	214.6	11.19	8.7	77.80
24.98	2109	38.2	255.5	0	0	255.5	13.1	10.03	76.60
29.96	1954	37.6	294.9	0	0	294.9	14.86	11.15	75.00
39.98	1698	36.5	372.8	0	0	372.8	18.22	12.92	71.00
50	1495	35.3	447.8	0	0	447.8	21.21	14.23	67.10



Engineering Performance Test Report

Performance Spec (SP) Number: 25

System Voltage [V]: 48 - (I * 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	5158	47.2	66.1	0	0	66.1	4.18	2.94	70.30
3.98	4692	47.1	77.6	0	0	77.6	4.89	3.55	72.60
5	4373	46.9	87.6	0	0	87.6	5.5	4.16	75.60
5.99	4132	46.8	96.7	0	0	96.7	6.07	4.71	77.60
7.02	3903	46.6	107.1	0	0	107.1	6.7	5.22	77.90
7.99	3717	46.5	115.8	0	0	115.8	7.27	5.66	78.40
10.02	3422	46.2	132.8	0	0	132.8	8.23	6.53	79.40
12	3206	46	149.3	0	0	149.3	9.2	7.32	79.60
14.98	2954	45.5	174.3	0	0	174.3	10.64	8.42	79.20
18.01	2722	45.2	199.4	0	0	199.4	12.07	9.51	78.70
20.01	2675	44.9	215.1	0	0	215.1	12.95	10.19	78.70
25	2476	44.3	255.6	0	0	255.6	15.16	11.79	77.70
30.01	2300	43.7	295.3	0	0	295.3	17.29	13.34	76.60
40	2024	42.4	373.6	0	0	373.6	21.25	15.42	72.60
49.96	1810	41.3	448	0	0	448	24.79	17.21	69.50
60.01	1636	40.2	520.3	0	0	520.3	28.06	18.69	66.60

