

**Kv** 3214 Astro 915  
**Kt** 0.42  
**Arm Res** 0.021  
**No Load Current** 5  
**Kv \* Kt** 1349.88  
**Max Volts** 12

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	5	0	38568	60	0	0%	0.000
	6	0.42	38163	72	11.874	16%	0.016
	8	1.26	38028	96	35.496	37%	0.048
	10	2.1	37893	120	58.95	49%	0.079
	12	2.94	37758	144	82.236	57%	0.110
	14	3.78	37623	168	105.354	63%	0.141
	16	4.62	37488	192	128.304	67%	0.172
	18	5.46	37353	216	151.086	70%	0.203
	20	6.3	37218	240	173.7	72%	0.233
	22	7.14	37083	264	196.146	74%	0.263
	24	7.98	36948	288	218.424	76%	0.293
	26	8.82	36813	312	240.534	77%	0.322
	28	9.66	36678	336	262.476	78%	0.352
	30	10.5	36543	360	284.25	79%	0.381
	32	11.34	36408	384	305.856	80%	0.410
	34	12.18	36273	408	327.294	80%	0.439
	36	13.02	36138	432	348.564	81%	0.467
	38	13.86	36003	456	369.666	81%	0.496
	40	14.7	35868	480	390.6	81%	0.524
	42	15.54	35733	504	411.366	82%	0.551
	44	16.38	35598	528	431.964	82%	0.579
	46	17.22	35463	552	452.394	82%	0.606
	48	18.06	35328	576	472.656	82%	0.634
Max Amps	<b>50</b>	<b>18.9</b>	<b>35193</b>	<b>600</b>	<b>492.75</b>	<b>82%</b>	<b>0.661</b>
	52	19.74	35058	624	512.676	82%	0.687
	54	20.58	34923	648	532.434	82%	0.714
	56	21.42	34788	672	552.024	82%	0.740
	58	22.26	34653	696	571.446	82%	0.766
	60	23.1	34518	720	590.7	82%	0.792
	62	23.94	34383	744	609.786	82%	0.817
	64	24.78	34248	768	628.704	82%	0.843
	66	25.62	34113	792	647.454	82%	0.868
	68	26.46	33978	816	666.036	82%	0.893
	70	27.3	33843	840	684.45	81%	0.917
	72	28.14	33708	864	702.696	81%	0.942
	74	28.98	33573	888	720.774	81%	0.966
	76	29.82	33438	912	738.684	81%	0.990
	78	30.66	33303	936	756.426	81%	1.014
	80	31.5	33168	960	774	81%	1.038
	82	32.34	33033	984	791.406	80%	1.061
	84	33.18	32899	1008	808.644	80%	1.084
	86	34.02	32764	1032	825.714	80%	1.107
	88	34.86	32629	1056	842.616	80%	1.130
	90	35.7	32494	1080	859.35	80%	1.152

	92	36.54	32359	1104	875.916	79%	1.174
	94	37.38	32224	1128	892.314	79%	1.196
	96	38.22	32089	1152	908.544	79%	1.218
	98	39.06	31954	1176	924.606	79%	1.239
<b>Rated Stall</b>	<b>100</b>	<b>39.9</b>	<b>31819</b>	<b>1200</b>	<b>940.5</b>	<b>78%</b>	<b>1.261</b>
	102	40.74	31684	1224	956.226	78%	1.282
	104	41.58	31549	1248	971.784	78%	1.303
	106	42.42	31414	1272	987.174	78%	1.323
	108	43.26	31279	1296	1002.396	77%	1.344
	110	44.1	31144	1320	1017.45	77%	1.364
	112	44.94	31009	1344	1032.336	77%	1.384
	114	45.78	30874	1368	1047.054	77%	1.404
	116	46.62	30739	1392	1061.604	76%	1.423
	118	47.46	30604	1416	1075.986	76%	1.442
	120	48.3	30469	1440	1090.2	76%	1.461
	122	49.14	30334	1464	1104.246	75%	1.480
	124	49.98	30199	1488	1118.124	75%	1.499
	126	50.82	30064	1512	1131.834	75%	1.517
	128	51.66	29929	1536	1145.376	75%	1.535
	130	52.5	29794	1560	1158.75	74%	1.553
	132	53.34	29659	1584	1171.956	74%	1.571
	134	54.18	29524	1608	1184.994	74%	1.588
	136	55.02	29389	1632	1197.864	73%	1.606
	138	55.86	29254	1656	1210.566	73%	1.623
	140	56.7	29119	1680	1223.1	73%	1.640
	142	57.54	28984	1704	1235.466	73%	1.656
	144	58.38	28849	1728	1247.664	72%	1.672
	146	59.22	28714	1752	1259.694	72%	1.689
	148	60.06	28579	1776	1271.556	72%	1.704
	150	60.9	28444	1800	1283.25	71%	1.720
	152	61.74	28309	1824	1294.776	71%	1.736
	154	62.58	28174	1848	1306.134	71%	1.751
	156	63.42	28039	1872	1317.324	70%	1.766
	158	64.26	27904	1896	1328.346	70%	1.781
	160	65.1	27769	1920	1339.2	70%	1.795
	162	65.94	27634	1944	1349.886	69%	1.809
	164	66.78	27499	1968	1360.404	69%	1.824
	166	67.62	27364	1992	1370.754	69%	1.837
	168	68.46	27229	2016	1380.936	68%	1.851
	170	69.3	27094	2040	1390.95	68%	1.865
	172	70.14	26959	2064	1400.796	68%	1.878
	174	70.98	26824	2088	1410.474	68%	1.891
	176	71.82	26689	2112	1419.984	67%	1.903
	178	72.66	26554	2136	1429.326	67%	1.916
	180	73.5	26419	2160	1438.5	67%	1.928
	182	74.34	26284	2184	1447.506	66%	1.940
	184	75.18	26149	2208	1456.344	66%	1.952
	186	76.02	26014	2232	1465.014	66%	1.964
	188	76.86	25879	2256	1473.516	65%	1.975
	190	77.7	25744	2280	1481.85	65%	1.986
	192	78.54	25609	2304	1490.016	65%	1.997
	194	79.38	25474	2328	1498.014	64%	2.008

196	80.22	25339	2352	1505.844	64%	2.019
198	81.06	25204	2376	1513.506	64%	2.029
200	81.9	25069	2400	1521	63%	2.039
202	82.74	24934	2424	1528.326	63%	2.049
204	83.58	24799	2448	1535.484	63%	2.058
206	84.42	24664	2472	1542.474	62%	2.068
208	85.26	24529	2496	1549.296	62%	2.077
210	86.1	24394	2520	1555.95	62%	2.086
212	86.94	24259	2544	1562.436	61%	2.094
214	87.78	24124	2568	1568.754	61%	2.103
216	88.62	23989	2592	1574.904	61%	2.111
218	89.46	23854	2616	1580.886	60%	2.119
220	90.3	23719	2640	1586.7	60%	2.127
222	91.14	23584	2664	1592.346	60%	2.135
224	91.98	23449	2688	1597.824	59%	2.142
226	92.82	23314	2712	1603.134	59%	2.149
228	93.66	23179	2736	1608.276	59%	2.156
230	94.5	23044	2760	1613.25	58%	2.163
232	95.34	22909	2784	1618.056	58%	2.169
234	96.18	22774	2808	1622.694	58%	2.175
236	97.02	22639	2832	1627.164	57%	2.181
238	97.86	22504	2856	1631.466	57%	2.187
240	98.7	22369	2880	1635.6	57%	2.192
242	99.54	22234	2904	1639.566	56%	2.198
244	100.38	22099	2928	1643.364	56%	2.203
246	101.22	21964	2952	1646.994	56%	2.208
248	102.06	21829	2976	1650.456	55%	2.212
250	102.9	21695	3000	1653.75	55%	2.217
252	103.74	21560	3024	1656.876	55%	2.221
254	104.58	21425	3048	1659.834	54%	2.225
256	105.42	21290	3072	1662.624	54%	2.229
258	106.26	21155	3096	1665.246	54%	2.232
260	107.1	21020	3120	1667.7	53%	2.236
262	107.94	20885	3144	1669.986	53%	2.239
264	108.78	20750	3168	1672.104	53%	2.241
266	109.62	20615	3192	1674.054	52%	2.244
268	110.46	20480	3216	1675.836	52%	2.246
270	111.3	20345	3240	1677.45	52%	2.249
272	112.14	20210	3264	1678.896	51%	2.251
274	112.98	20075	3288	1680.174	51%	2.252
276	113.82	19940	3312	1681.284	51%	2.254
278	114.66	19805	3336	1682.226	50%	2.255
280	115.5	19670	3360	1683	50%	2.256
282	116.34	19535	3384	1683.606	50%	2.257
284	117.18	19400	3408	1684.044	49%	2.257
286	118.02	19265	3432	1684.314	49%	2.258
288	118.86	19130	3456	1684.416	49%	2.258
290	119.7	18995	3480	1684.35	48%	2.258
292	120.54	18860	3504	1684.116	48%	2.258
294	121.38	18725	3528	1683.714	48%	2.257
296	122.22	18590	3552	1683.144	47%	2.256
298	123.06	18455	3576	1682.406	47%	2.255

300	123.9	18320	3600	1681.5	47%	2.254
302	124.74	18185	3624	1680.426	46%	2.253
304	125.58	18050	3648	1679.184	46%	2.251
306	126.42	17915	3672	1677.774	46%	2.249
308	127.26	17780	3696	1676.196	45%	2.247
310	128.1	17645	3720	1674.45	45%	2.245
312	128.94	17510	3744	1672.536	45%	2.242
314	129.78	17375	3768	1670.454	44%	2.239
316	130.62	17240	3792	1668.204	44%	2.236
318	131.46	17105	3816	1665.786	44%	2.233
320	132.3	16970	3840	1663.2	43%	2.229
322	133.14	16835	3864	1660.446	43%	2.226
324	133.98	16700	3888	1657.524	43%	2.222
326	134.82	16565	3912	1654.434	42%	2.218
328	135.66	16430	3936	1651.176	42%	2.213
330	136.5	16295	3960	1647.75	42%	2.209
332	137.34	16160	3984	1644.156	41%	2.204
334	138.18	16025	4008	1640.394	41%	2.199
336	139.02	15890	4032	1636.464	41%	2.194
338	139.86	15755	4056	1632.366	40%	2.188
340	140.7	15620	4080	1628.1	40%	2.182
342	141.54	15485	4104	1623.666	40%	2.176
344	142.38	15350	4128	1619.064	39%	2.170
346	143.22	15215	4152	1614.294	39%	2.164
348	144.06	15080	4176	1609.356	39%	2.157
350	144.9	14945	4200	1604.25	38%	2.150
352	145.74	14810	4224	1598.976	38%	2.143
354	146.58	14675	4248	1593.534	38%	2.136
356	147.42	14540	4272	1587.924	37%	2.129
358	148.26	14405	4296	1582.146	37%	2.121
360	149.1	14270	4320	1576.2	36%	2.113
362	149.94	14135	4344	1570.086	36%	2.105
364	150.78	14000	4368	1563.804	36%	2.096
366	151.62	13865	4392	1557.354	35%	2.088
368	152.46	13730	4416	1550.736	35%	2.079
370	153.3	13595	4440	1543.95	35%	2.070
372	154.14	13460	4464	1536.996	34%	2.060
374	154.98	13325	4488	1529.874	34%	2.051
376	155.82	13190	4512	1522.584	34%	2.041
378	156.66	13055	4536	1515.126	33%	2.031
380	157.5	12920	4560	1507.5	33%	2.021
382	158.34	12785	4584	1499.706	33%	2.010
384	159.18	12650	4608	1491.744	32%	2.000
386	160.02	12515	4632	1483.614	32%	1.989
388	160.86	12380	4656	1475.316	32%	1.978
390	161.7	12245	4680	1466.85	31%	1.966
392	162.54	12110	4704	1458.216	31%	1.955
394	163.38	11975	4728	1449.414	31%	1.943
396	164.22	11840	4752	1440.444	30%	1.931
398	165.06	11705	4776	1431.306	30%	1.919
400	165.9	11570	4800	1422	30%	1.906
402	166.74	11435	4824	1412.526	29%	1.893

404	167.58	11300	4848	1402.884	29%	1.881
406	168.42	11165	4872	1393.074	29%	1.867
408	169.26	11030	4896	1383.096	28%	1.854
410	170.1	10895	4920	1372.95	28%	1.840
412	170.94	10760	4944	1362.636	28%	1.827
414	171.78	10625	4968	1352.154	27%	1.813
416	172.62	10490	4992	1341.504	27%	1.798
418	173.46	10356	5016	1330.686	27%	1.784
420	174.3	10221	5040	1319.7	26%	1.769
422	175.14	10086	5064	1308.546	26%	1.754
424	175.98	9951	5088	1297.224	25%	1.739
426	176.82	9816	5112	1285.734	25%	1.724
428	177.66	9681	5136	1274.076	25%	1.708
430	178.5	9546	5160	1262.25	24%	1.692
432	179.34	9411	5184	1250.256	24%	1.676
434	180.18	9276	5208	1238.094	24%	1.660
436	181.02	9141	5232	1225.764	23%	1.643
438	181.86	9006	5256	1213.266	23%	1.626
440	182.7	8871	5280	1200.6	23%	1.609
442	183.54	8736	5304	1187.766	22%	1.592
444	184.38	8601	5328	1174.764	22%	1.575
446	185.22	8466	5352	1161.594	22%	1.557
448	186.06	8331	5376	1148.256	21%	1.539
450	186.9	8196	5400	1134.75	21%	1.521
452	187.74	8061	5424	1121.076	21%	1.503
454	188.58	7926	5448	1107.234	20%	1.484
456	189.42	7791	5472	1093.224	20%	1.465
458	190.26	7656	5496	1079.046	20%	1.446
460	191.1	7521	5520	1064.7	19%	1.427
462	191.94	7386	5544	1050.186	19%	1.408
464	192.78	7251	5568	1035.504	19%	1.388
466	193.62	7116	5592	1020.654	18%	1.368
468	194.46	6981	5616	1005.636	18%	1.348
470	195.3	6846	5640	990.45	18%	1.328
472	196.14	6711	5664	975.096	17%	1.307
474	196.98	6576	5688	959.574	17%	1.286
476	197.82	6441	5712	943.884	17%	1.265
478	198.66	6306	5736	928.026	16%	1.244
480	199.5	6171	5760	912	16%	1.223
482	200.34	6036	5784	895.806	15%	1.201
484	201.18	5901	5808	879.444	15%	1.179
486	202.02	5766	5832	862.914	15%	1.157
488	202.86	5631	5856	846.216	14%	1.134
490	203.7	5496	5880	829.35	14%	1.112
492	204.54	5361	5904	812.316	14%	1.089
494	205.38	5226	5928	795.114	13%	1.066
496	206.22	5091	5952	777.744	13%	1.043
498	207.06	4956	5976	760.206	13%	1.019
500	207.9	4821	6000	742.5	12%	0.995
502	208.74	4686	6024	724.626	12%	0.971
504	209.58	4551	6048	706.584	12%	0.947
506	210.42	4416	6072	688.374	11%	0.923

508	211.26	4281	6096	669.996	11%	0.898	
510	212.1	4146	6120	651.45	11%	0.873	
512	212.94	4011	6144	632.736	10%	0.848	
514	213.78	3876	6168	613.854	10%	0.823	
516	214.62	3741	6192	594.804	10%	0.797	
518	215.46	3606	6216	575.586	9%	0.772	
520	216.3	3471	6240	556.2	9%	0.746	
522	217.14	3336	6264	536.646	9%	0.719	
524	217.98	3201	6288	516.924	8%	0.693	
526	218.82	3066	6312	497.034	8%	0.666	
528	219.66	2931	6336	476.976	8%	0.639	
530	220.5	2796	6360	456.75	7%	0.612	
532	221.34	2661	6384	436.356	7%	0.585	
534	222.18	2526	6408	415.794	6%	0.557	
536	223.02	2391	6432	395.064	6%	0.530	
538	223.86	2256	6456	374.166	6%	0.502	
540	224.7	2121	6480	353.1	5%	0.473	
542	225.54	1986	6504	331.866	5%	0.445	
544	226.38	1851	6528	310.464	5%	0.416	
546	227.22	1716	6552	288.894	4%	0.387	
548	228.06	1581	6576	267.156	4%	0.358	
550	228.9	1446	6600	245.25	4%	0.329	
552	229.74	1311	6624	223.176	3%	0.299	
554	230.58	1176	6648	200.934	3%	0.269	
556	231.42	1041	6672	178.524	3%	0.239	
558	232.26	906	6696	155.946	2%	0.209	
560	233.1	771	6720	133.2	2%	0.179	
562	233.94	636	6744	110.286	2%	0.148	
564	234.78	501	6768	87.204	1%	0.117	
566	235.62	366	6792	63.954	1%	0.086	
568	236.46	231	6816	40.536	1%	0.054	
Computed Stall	<b>570</b>	<b>237.3</b>	<b>96</b>	<b>6840</b>	<b>16.95</b>	<b>0%</b>	<b>0.023</b>

**Kv** 682 Astro 940  
**Kt** 2  
**Arm Res** 0.121  
**No Load Current** 3  
**Kv \* Kt** 1364  
**Max Volts** 24

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	16368	72	0	0%	0.000
	6	6	15873	144	69.822	48%	0.094
	8	10	15708	192	115.16	60%	0.154
	10	14	15543	240	159.53	66%	0.214
	12	18	15378	288	202.932	70%	0.272
	14	22	15213	336	245.366	73%	0.329
	16	26	15048	384	286.832	75%	0.384
	18	30	14883	432	327.33	76%	0.439
	20	34	14718	480	366.86	76%	0.492
	22	38	14553	528	405.422	77%	0.543
	24	42	14387	576	443.016	77%	0.594
	26	46	14222	624	479.642	77%	0.643
	28	50	14057	672	515.3	77%	0.691
	30	54	13892	720	549.99	76%	0.737
	32	58	13727	768	583.712	76%	0.782
Max Amps (35)	<b>35</b>	<b>64</b>	<b>13480</b>	<b>840</b>	<b>632.48</b>	<b>75%</b>	<b>0.848</b>
	36	66	13397	864	648.252	75%	0.869
	38	70	13232	912	679.07	74%	0.910
	40	74	13067	960	708.92	74%	0.950
	42	78	12902	1008	737.802	73%	0.989
	44	82	12737	1056	765.716	73%	1.026
	46	86	12572	1104	792.662	72%	1.063
	48	90	12407	1152	818.64	71%	1.097
	50	94	12242	1200	843.65	70%	1.131
	52	98	12077	1248	867.692	70%	1.163
	54	102	11912	1296	890.766	69%	1.194
	56	106	11747	1344	912.872	68%	1.224
	58	110	11582	1392	934.01	67%	1.252
	60	114	11417	1440	954.18	66%	1.279
	62	118	11252	1488	973.382	65%	1.305
	64	122	11087	1536	991.616	65%	1.329
	66	126	10922	1584	1008.882	64%	1.352
	68	130	10757	1632	1025.18	63%	1.374
	70	134	10591	1680	1040.51	62%	1.395
	72	138	10426	1728	1054.872	61%	1.414
	74	142	10261	1776	1068.266	60%	1.432
	76	146	10096	1824	1080.692	59%	1.449
	78	150	9931	1872	1092.15	58%	1.464
	80	154	9766	1920	1102.64	57%	1.478
	82	158	9601	1968	1112.162	57%	1.491
	84	162	9436	2016	1120.716	56%	1.502
	86	166	9271	2064	1128.302	55%	1.512
	88	170	9106	2112	1134.92	54%	1.521
	90	174	8941	2160	1140.57	53%	1.529

	92	178	8776	2208	1145.252	52%	1.535
	94	182	8611	2256	1148.966	51%	1.540
	96	186	8446	2304	1151.712	50%	1.544
	98	190	8281	2352	1153.49	49%	1.546
<b>Rated Stall</b>	<b>100</b>	<b>194</b>	<b>8116</b>	<b>2400</b>	<b>1154.3</b>	<b>48%</b>	<b>1.547</b>
	102	198	7951	2448	1154.142	47%	1.547
	104	202	7786	2496	1153.016	46%	1.546
	106	206	7621	2544	1150.922	45%	1.543
	108	210	7456	2592	1147.86	44%	1.539
	110	214	7291	2640	1143.83	43%	1.533
	112	218	7126	2688	1138.832	42%	1.527
	114	222	6960	2736	1132.866	41%	1.519
	116	226	6795	2784	1125.932	40%	1.509
	118	230	6630	2832	1118.03	39%	1.499
	120	234	6465	2880	1109.16	39%	1.487
	122	238	6300	2928	1099.322	38%	1.474
	124	242	6135	2976	1088.516	37%	1.459
	126	246	5970	3024	1076.742	36%	1.443
	128	250	5805	3072	1064	35%	1.426
	130	254	5640	3120	1050.29	34%	1.408
	132	258	5475	3168	1035.612	33%	1.388
	134	262	5310	3216	1019.966	32%	1.367
	136	266	5145	3264	1003.352	31%	1.345
	138	270	4980	3312	985.77	30%	1.321
	140	274	4815	3360	967.22	29%	1.297
	142	278	4650	3408	947.702	28%	1.270
	144	282	4485	3456	927.216	27%	1.243
	146	286	4320	3504	905.762	26%	1.214
	148	290	4155	3552	883.34	25%	1.184
	150	294	3990	3600	859.95	24%	1.153
	152	298	3825	3648	835.592	23%	1.120
	154	302	3660	3696	810.266	22%	1.086
	156	306	3495	3744	783.972	21%	1.051
	158	310	3330	3792	756.71	20%	1.014
	160	314	3164	3840	728.48	19%	0.977
	162	318	2999	3888	699.282	18%	0.937
	164	322	2834	3936	669.116	17%	0.897
	166	326	2669	3984	637.982	16%	0.855
	168	330	2504	4032	605.88	15%	0.812
	170	334	2339	4080	572.81	14%	0.768
	172	338	2174	4128	538.772	13%	0.722
	174	342	2009	4176	503.766	12%	0.675
	176	346	1844	4224	467.792	11%	0.627
	178	350	1679	4272	430.85	10%	0.578
	180	354	1514	4320	392.94	9%	0.527
	182	358	1349	4368	354.062	8%	0.475
	184	362	1184	4416	314.216	7%	0.421
	186	366	1019	4464	273.402	6%	0.366
	188	370	854	4512	231.62	5%	0.310
	190	374	689	4560	188.87	4%	0.253
	192	378	524	4608	145.152	3%	0.195
	194	382	359	4656	100.466	2%	0.135

Computed Stall	196	386	194	4704	54.812	1%	0.073
	<b>198</b>	<b>390</b>	<b>29</b>	<b>4752</b>	<b>8.19</b>	<b>0%</b>	<b>0.011</b>

**Kv** 347 Astro 960  
**Kt** 3.6  
**Arm Res** 0.103  
**No Load Current** 3  
**Kv \* Kt** 1249.2  
**Max Volts** 36

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	12492	108	0	0%	0.000
	6	10.8	12278	216	106.146	49%	0.142
	8	18	12206	288	175.88	61%	0.236
	10	25.2	12135	360	244.79	68%	0.328
	12	32.4	12063	432	312.876	72%	0.419
	14	39.6	11992	504	380.138	75%	0.510
	16	46.8	11920	576	446.576	78%	0.599
	18	54	11849	648	512.19	79%	0.687
	20	61.2	11777	720	576.98	80%	0.773
	22	68.4	11706	792	640.946	81%	0.859
	24	75.6	11634	864	704.088	81%	0.944
	26	82.8	11563	936	766.406	82%	1.027
	28	90	11491	1008	827.9	82%	1.110
	30	97.2	11420	1080	888.57	82%	1.191
	32	104.4	11348	1152	948.416	82%	1.271
Max Amps (35)	<b>35</b>	<b>115.2</b>	<b>11241</b>	<b>1260</b>	<b>1036.64</b>	<b>82%</b>	<b>1.390</b>
	36	118.8	11205	1296	1065.636	82%	1.428
	38	126	11134	1368	1123.01	82%	1.505
	40	133.2	11062	1440	1179.56	82%	1.581
	42	140.4	10991	1512	1235.286	82%	1.656
	44	147.6	10919	1584	1290.188	81%	1.729
	46	154.8	10848	1656	1344.266	81%	1.802
	48	162	10776	1728	1397.52	81%	1.873
	50	169.2	10705	1800	1449.95	81%	1.944
	52	176.4	10633	1872	1501.556	80%	2.013
	54	183.6	10562	1944	1552.338	80%	2.081
	56	190.8	10491	2016	1602.296	79%	2.148
	58	198	10419	2088	1651.43	79%	2.214
	60	205.2	10348	2160	1699.74	79%	2.278
	62	212.4	10276	2232	1747.226	78%	2.342
	64	219.6	10205	2304	1793.888	78%	2.405
	66	226.8	10133	2376	1839.726	77%	2.466
	68	234	10062	2448	1884.74	77%	2.526
	70	241.2	9990	2520	1928.93	77%	2.586
	72	248.4	9919	2592	1972.296	76%	2.644
	74	255.6	9847	2664	2014.838	76%	2.701
	76	262.8	9776	2736	2056.556	75%	2.757
	78	270	9704	2808	2097.45	75%	2.812
	80	277.2	9633	2880	2137.52	74%	2.865
	82	284.4	9561	2952	2176.766	74%	2.918
	84	291.6	9490	3024	2215.188	73%	2.969
	86	298.8	9418	3096	2252.786	73%	3.020
	88	306	9347	3168	2289.56	72%	3.069
	90	313.2	9275	3240	2325.51	72%	3.117

	92	320.4	9204	3312	2360.636	71%	3.164
	94	327.6	9132	3384	2394.938	71%	3.210
	96	334.8	9061	3456	2428.416	70%	3.255
	98	342	8989	3528	2461.07	70%	3.299
<b>Rated Stall</b>	<b>100</b>	<b>349.2</b>	<b>8918</b>	<b>3600</b>	<b>2492.9</b>	<b>69%</b>	<b>3.342</b>
	102	356.4	8846	3672	2523.906	69%	3.383
	104	363.6	8775	3744	2554.088	68%	3.424
	106	370.8	8703	3816	2583.446	68%	3.463
	108	378	8632	3888	2611.98	67%	3.501
	110	385.2	8560	3960	2639.69	67%	3.538
	112	392.4	8489	4032	2666.576	66%	3.574
	114	399.6	8418	4104	2692.638	66%	3.609
	116	406.8	8346	4176	2717.876	65%	3.643
	118	414	8275	4248	2742.29	65%	3.676
	120	421.2	8203	4320	2765.88	64%	3.708
	122	428.4	8132	4392	2788.646	63%	3.738
	124	435.6	8060	4464	2810.588	63%	3.768
	126	442.8	7989	4536	2831.706	62%	3.796
	128	450	7917	4608	2852	62%	3.823
	130	457.2	7846	4680	2871.47	61%	3.849
	132	464.4	7774	4752	2890.116	61%	3.874
	134	471.6	7703	4824	2907.938	60%	3.898
	136	478.8	7631	4896	2924.936	60%	3.921
	138	486	7560	4968	2941.11	59%	3.943
	140	493.2	7488	5040	2956.46	59%	3.963
	142	500.4	7417	5112	2970.986	58%	3.983
	144	507.6	7345	5184	2984.688	58%	4.001
	146	514.8	7274	5256	2997.566	57%	4.018
	148	522	7202	5328	3009.62	56%	4.034
	150	529.2	7131	5400	3020.85	56%	4.049
	152	536.4	7059	5472	3031.256	55%	4.063
	154	543.6	6988	5544	3040.838	55%	4.076
	156	550.8	6916	5616	3049.596	54%	4.088
	158	558	6845	5688	3057.53	54%	4.099
	160	565.2	6773	5760	3064.64	53%	4.108
	162	572.4	6702	5832	3070.926	53%	4.117
	164	579.6	6630	5904	3076.388	52%	4.124
	166	586.8	6559	5976	3081.026	52%	4.130
	168	594	6488	6048	3084.84	51%	4.135
	170	601.2	6416	6120	3087.83	50%	4.139
	172	608.4	6345	6192	3089.996	50%	4.142
	174	615.6	6273	6264	3091.338	49%	4.144
	176	622.8	6202	6336	3091.856	49%	4.145
	178	630	6130	6408	3091.55	48%	4.144
	180	637.2	6059	6480	3090.42	48%	4.143
	182	644.4	5987	6552	3088.466	47%	4.140
	184	651.6	5916	6624	3085.688	47%	4.136
	186	658.8	5844	6696	3082.086	46%	4.131
	188	666	5773	6768	3077.66	45%	4.126
	190	673.2	5701	6840	3072.41	45%	4.119
	192	680.4	5630	6912	3066.336	44%	4.110
	194	687.6	5558	6984	3059.438	44%	4.101

196	694.8	5487	7056	3051.716	43%	4.091
198	702	5415	7128	3043.17	43%	4.079
200	709.2	5344	7200	3033.8	42%	4.067
202	716.4	5272	7272	3023.606	42%	4.053
204	723.6	5201	7344	3012.588	41%	4.038
206	730.8	5129	7416	3000.746	40%	4.022
208	738	5058	7488	2988.08	40%	4.005
210	745.2	4986	7560	2974.59	39%	3.987
212	752.4	4915	7632	2960.276	39%	3.968
214	759.6	4843	7704	2945.138	38%	3.948
216	766.8	4772	7776	2929.176	38%	3.927
218	774	4700	7848	2912.39	37%	3.904
220	781.2	4629	7920	2894.78	37%	3.880
222	788.4	4557	7992	2876.346	36%	3.856
224	795.6	4486	8064	2857.088	35%	3.830
226	802.8	4415	8136	2837.006	35%	3.803
228	810	4343	8208	2816.1	34%	3.775
230	817.2	4272	8280	2794.37	34%	3.746
232	824.4	4200	8352	2771.816	33%	3.716
234	831.6	4129	8424	2748.438	33%	3.684
236	838.8	4057	8496	2724.236	32%	3.652
238	846	3986	8568	2699.21	32%	3.618
240	853.2	3914	8640	2673.36	31%	3.584
242	860.4	3843	8712	2646.686	30%	3.548
244	867.6	3771	8784	2619.188	30%	3.511
246	874.8	3700	8856	2590.866	29%	3.473
248	882	3628	8928	2561.72	29%	3.434
250	889.2	3557	9000	2531.75	28%	3.394
252	896.4	3485	9072	2500.956	28%	3.352
254	903.6	3414	9144	2469.338	27%	3.310
256	910.8	3342	9216	2436.896	26%	3.267
258	918	3271	9288	2403.63	26%	3.222
260	925.2	3199	9360	2369.54	25%	3.176
262	932.4	3128	9432	2334.626	25%	3.130
264	939.6	3056	9504	2298.888	24%	3.082
266	946.8	2985	9576	2262.326	24%	3.033
268	954	2913	9648	2224.94	23%	2.982
270	961.2	2842	9720	2186.73	22%	2.931
272	968.4	2770	9792	2147.696	22%	2.879
274	975.6	2699	9864	2107.838	21%	2.826
276	982.8	2627	9936	2067.156	21%	2.771
278	990	2556	10008	2025.65	20%	2.715
280	997.2	2485	10080	1983.32	20%	2.659
282	1004.4	2413	10152	1940.166	19%	2.601
284	1011.6	2342	10224	1896.188	19%	2.542
286	1018.8	2270	10296	1851.386	18%	2.482
288	1026	2199	10368	1805.76	17%	2.421
290	1033.2	2127	10440	1759.31	17%	2.358
292	1040.4	2056	10512	1712.036	16%	2.295
294	1047.6	1984	10584	1663.938	16%	2.230
296	1054.8	1913	10656	1615.016	15%	2.165
298	1062	1841	10728	1565.27	15%	2.098

300	1069.2	1770	10800	1514.7	14%	2.030	
302	1076.4	1698	10872	1463.306	13%	1.962	
304	1083.6	1627	10944	1411.088	13%	1.892	
306	1090.8	1555	11016	1358.046	12%	1.820	
308	1098	1484	11088	1304.18	12%	1.748	
310	1105.2	1412	11160	1249.49	11%	1.675	
312	1112.4	1341	11232	1193.976	11%	1.601	
314	1119.6	1269	11304	1137.638	10%	1.525	
316	1126.8	1198	11376	1080.476	9%	1.448	
318	1134	1126	11448	1022.49	9%	1.371	
320	1141.2	1055	11520	963.68	8%	1.292	
322	1148.4	983	11592	904.046	8%	1.212	
324	1155.6	912	11664	843.588	7%	1.131	
326	1162.8	840	11736	782.306	7%	1.049	
328	1170	769	11808	720.2	6%	0.965	
330	1177.2	697	11880	657.27	6%	0.881	
332	1184.4	626	11952	593.516	5%	0.796	
334	1191.6	555	12024	528.938	4%	0.709	
336	1198.8	483	12096	463.536	4%	0.621	
338	1206	412	12168	397.31	3%	0.533	
340	1213.2	340	12240	330.26	3%	0.443	
342	1220.4	269	12312	262.386	2%	0.352	
344	1227.6	197	12384	193.688	2%	0.260	
346	1234.8	126	12456	124.166	1%	0.166	
Computer Stall	<b>348</b>	<b>1242</b>	<b>54</b>	<b>12528</b>	<b>53.82</b>	<b>0%</b>	<b>0.072</b>

**Kv** 256 Astro 990  
**Kt** 5.3  
**Arm Res** 0.111  
**No Load Current** 3  
**Kv \* Kt** 1356.8  
**Max Volts** 48

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	12288	144	0	0%	0.000
	6	15.9	12118	288	142.002	49%	0.190
	8	26.5	12061	384	235.56	61%	0.316
	10	37.1	12004	480	328.23	68%	0.440
	12	47.7	11947	576	420.012	73%	0.563
	14	58.3	11890	672	510.906	76%	0.685
	16	68.9	11833	768	600.912	78%	0.806
	18	79.5	11777	864	690.03	80%	0.925
	20	90.1	11720	960	778.26	81%	1.043
	22	100.7	11663	1056	865.602	82%	1.160
	24	111.3	11606	1152	952.056	83%	1.276
	26	121.9	11549	1248	1037.622	83%	1.391
	28	132.5	11492	1344	1122.3	84%	1.504
	30	143.1	11436	1440	1206.09	84%	1.617
	32	153.7	11379	1536	1288.992	84%	1.728
Max Amps (35)	<b>35</b>	<b>169.6</b>	<b>11293</b>	<b>1680</b>	<b>1411.68</b>	<b>84%</b>	<b>1.892</b>
	36	174.9	11265	1728	1452.132	84%	1.947
	38	185.5	11208	1824	1532.37	84%	2.054
	40	196.1	11151	1920	1611.72	84%	2.160
	42	206.7	11095	2016	1690.182	84%	2.266
	44	217.3	11038	2112	1767.756	84%	2.370
	46	227.9	10981	2208	1844.442	84%	2.472
	48	238.5	10924	2304	1920.24	83%	2.574
	50	249.1	10867	2400	1995.15	83%	2.674
	52	259.7	10810	2496	2069.172	83%	2.774
	54	270.3	10754	2592	2142.306	83%	2.872
	56	280.9	10697	2688	2214.552	82%	2.969
	58	291.5	10640	2784	2285.91	82%	3.064
	60	302.1	10583	2880	2356.38	82%	3.159
	62	312.7	10526	2976	2425.962	82%	3.252
	64	323.3	10469	3072	2494.656	81%	3.344
	66	333.9	10413	3168	2562.462	81%	3.435
	68	344.5	10356	3264	2629.38	81%	3.525
	70	355.1	10299	3360	2695.41	80%	3.613
	72	365.7	10242	3456	2760.552	80%	3.700
	74	376.3	10185	3552	2824.806	80%	3.787
	76	386.9	10128	3648	2888.172	79%	3.872
	78	397.5	10072	3744	2950.65	79%	3.955
	80	408.1	10015	3840	3012.24	78%	4.038
	82	418.7	9958	3936	3072.942	78%	4.119
	84	429.3	9901	4032	3132.756	78%	4.199
	86	439.9	9844	4128	3191.682	77%	4.278
	88	450.5	9787	4224	3249.72	77%	4.356
	90	461.1	9731	4320	3306.87	77%	4.433

	92	471.7	9674	4416	3363.132	76%	4.508
	94	482.3	9617	4512	3418.506	76%	4.582
	96	492.9	9560	4608	3472.992	75%	4.655
	98	503.5	9503	4704	3526.59	75%	4.727
<b>Rated Stall</b>	<b>100</b>	<b>514.1</b>	<b>9446</b>	<b>4800</b>	<b>3579.3</b>	<b>75%</b>	<b>4.798</b>
	102	524.7	9390	4896	3631.122	74%	4.867
	104	535.3	9333	4992	3682.056	74%	4.936
	106	545.9	9276	5088	3732.102	73%	5.003
	108	556.5	9219	5184	3781.26	73%	5.069
	110	567.1	9162	5280	3829.53	73%	5.133
	112	577.7	9105	5376	3876.912	72%	5.197
	114	588.3	9049	5472	3923.406	72%	5.259
	116	598.9	8992	5568	3969.012	71%	5.320
	118	609.5	8935	5664	4013.73	71%	5.380
	120	620.1	8878	5760	4057.56	70%	5.439
	122	630.7	8821	5856	4100.502	70%	5.497
	124	641.3	8764	5952	4142.556	70%	5.553
	126	651.9	8708	6048	4183.722	69%	5.608
	128	662.5	8651	6144	4224	69%	5.662
	130	673.1	8594	6240	4263.39	68%	5.715
	132	683.7	8537	6336	4301.892	68%	5.767
	134	694.3	8480	6432	4339.506	67%	5.817
	136	704.9	8423	6528	4376.232	67%	5.866
	138	715.5	8367	6624	4412.07	67%	5.914
	140	726.1	8310	6720	4447.02	66%	5.961
	142	736.7	8253	6816	4481.082	66%	6.007
	144	747.3	8196	6912	4514.256	65%	6.051
	146	757.9	8139	7008	4546.542	65%	6.095
	148	768.5	8082	7104	4577.94	64%	6.137
	150	779.1	8026	7200	4608.45	64%	6.178
	152	789.7	7969	7296	4638.072	64%	6.217
	154	800.3	7912	7392	4666.806	63%	6.256
	156	810.9	7855	7488	4694.652	63%	6.293
	158	821.5	7798	7584	4721.61	62%	6.329
	160	832.1	7741	7680	4747.68	62%	6.364
	162	842.7	7685	7776	4772.862	61%	6.398
	164	853.3	7628	7872	4797.156	61%	6.431
	166	863.9	7571	7968	4820.562	60%	6.462
	168	874.5	7514	8064	4843.08	60%	6.492
	170	885.1	7457	8160	4864.71	60%	6.521
	172	895.7	7400	8256	4885.452	59%	6.549
	174	906.3	7344	8352	4905.306	59%	6.575
	176	916.9	7287	8448	4924.272	58%	6.601
	178	927.5	7230	8544	4942.35	58%	6.625
	180	938.1	7173	8640	4959.54	57%	6.648
	182	948.7	7116	8736	4975.842	57%	6.670
	184	959.3	7059	8832	4991.256	57%	6.691
	186	969.9	7003	8928	5005.782	56%	6.710
	188	980.5	6946	9024	5019.42	56%	6.728
	190	991.1	6889	9120	5032.17	55%	6.746
	192	1001.7	6832	9216	5044.032	55%	6.761
	194	1012.3	6775	9312	5055.006	54%	6.776

196	1022.9	6718	9408	5065.092	54%	6.790
198	1033.5	6662	9504	5074.29	53%	6.802
200	1044.1	6605	9600	5082.6	53%	6.813
202	1054.7	6548	9696	5090.022	52%	6.823
204	1065.3	6491	9792	5096.556	52%	6.832
206	1075.9	6434	9888	5102.202	52%	6.839
208	1086.5	6377	9984	5106.96	51%	6.846
210	1097.1	6321	10080	5110.83	51%	6.851
212	1107.7	6264	10176	5113.812	50%	6.855
214	1118.3	6207	10272	5115.906	50%	6.858
216	1128.9	6150	10368	5117.112	49%	6.859
218	1139.5	6093	10464	5117.43	49%	6.860
220	1150.1	6036	10560	5116.86	48%	6.859
222	1160.7	5980	10656	5115.402	48%	6.857
224	1171.3	5923	10752	5113.056	48%	6.854
226	1181.9	5866	10848	5109.822	47%	6.850
228	1192.5	5809	10944	5105.7	47%	6.844
230	1203.1	5752	11040	5100.69	46%	6.837
232	1213.7	5695	11136	5094.792	46%	6.829
234	1224.3	5639	11232	5088.006	45%	6.820
236	1234.9	5582	11328	5080.332	45%	6.810
238	1245.5	5525	11424	5071.77	44%	6.799
240	1256.1	5468	11520	5062.32	44%	6.786
242	1266.7	5411	11616	5051.982	43%	6.772
244	1277.3	5354	11712	5040.756	43%	6.757
246	1287.9	5298	11808	5028.642	43%	6.741
248	1298.5	5241	11904	5015.64	42%	6.723
250	1309.1	5184	12000	5001.75	42%	6.705
252	1319.7	5127	12096	4986.972	41%	6.685
254	1330.3	5070	12192	4971.306	41%	6.664
256	1340.9	5014	12288	4954.752	40%	6.642
258	1351.5	4957	12384	4937.31	40%	6.618
260	1362.1	4900	12480	4918.98	39%	6.594
262	1372.7	4843	12576	4899.762	39%	6.568
264	1383.3	4786	12672	4879.656	39%	6.541
266	1393.9	4729	12768	4858.662	38%	6.513
268	1404.5	4673	12864	4836.78	38%	6.484
270	1415.1	4616	12960	4814.01	37%	6.453
272	1425.7	4559	13056	4790.352	37%	6.421
274	1436.3	4502	13152	4765.806	36%	6.388
276	1446.9	4445	13248	4740.372	36%	6.354
278	1457.5	4388	13344	4714.05	35%	6.319
280	1468.1	4332	13440	4686.84	35%	6.283
282	1478.7	4275	13536	4658.742	34%	6.245
284	1489.3	4218	13632	4629.756	34%	6.206
286	1499.9	4161	13728	4599.882	34%	6.166
288	1510.5	4104	13824	4569.12	33%	6.125
290	1521.1	4047	13920	4537.47	33%	6.082
292	1531.7	3991	14016	4504.932	32%	6.039
294	1542.3	3934	14112	4471.506	32%	5.994
296	1552.9	3877	14208	4437.192	31%	5.948
298	1563.5	3820	14304	4401.99	31%	5.901

300	1574.1	3763	14400	4365.9	30%	5.852
302	1584.7	3706	14496	4328.922	30%	5.803
304	1595.3	3650	14592	4291.056	29%	5.752
306	1605.9	3593	14688	4252.302	29%	5.700
308	1616.5	3536	14784	4212.66	28%	5.647
310	1627.1	3479	14880	4172.13	28%	5.593
312	1637.7	3422	14976	4130.712	28%	5.537
314	1648.3	3365	15072	4088.406	27%	5.480
316	1658.9	3309	15168	4045.212	27%	5.423
318	1669.5	3252	15264	4001.13	26%	5.363
320	1680.1	3195	15360	3956.16	26%	5.303
322	1690.7	3138	15456	3910.302	25%	5.242
324	1701.3	3081	15552	3863.556	25%	5.179
326	1711.9	3024	15648	3815.922	24%	5.115
328	1722.5	2968	15744	3767.4	24%	5.050
330	1733.1	2911	15840	3717.99	23%	4.984
332	1743.7	2854	15936	3667.692	23%	4.916
334	1754.3	2797	16032	3616.506	23%	4.848
336	1764.9	2740	16128	3564.432	22%	4.778
338	1775.5	2683	16224	3511.47	22%	4.707
340	1786.1	2627	16320	3457.62	21%	4.635
342	1796.7	2570	16416	3402.882	21%	4.562
344	1807.3	2513	16512	3347.256	20%	4.487
346	1817.9	2456	16608	3290.742	20%	4.411
348	1828.5	2399	16704	3233.34	19%	4.334
350	1839.1	2342	16800	3175.05	19%	4.256
352	1849.7	2286	16896	3115.872	18%	4.177
354	1860.3	2229	16992	3055.806	18%	4.096
356	1870.9	2172	17088	2994.852	18%	4.015
358	1881.5	2115	17184	2933.01	17%	3.932
360	1892.1	2058	17280	2870.28	17%	3.848
362	1902.7	2001	17376	2806.662	16%	3.762
364	1913.3	1945	17472	2742.156	16%	3.676
366	1923.9	1888	17568	2676.762	15%	3.588
368	1934.5	1831	17664	2610.48	15%	3.499
370	1945.1	1774	17760	2543.31	14%	3.409
372	1955.7	1717	17856	2475.252	14%	3.318
374	1966.3	1660	17952	2406.306	13%	3.226
376	1976.9	1604	18048	2336.472	13%	3.132
378	1987.5	1547	18144	2265.75	12%	3.037
380	1998.1	1490	18240	2194.14	12%	2.941
382	2008.7	1433	18336	2121.642	12%	2.844
384	2019.3	1376	18432	2048.256	11%	2.746
386	2029.9	1319	18528	1973.982	11%	2.646
388	2040.5	1263	18624	1898.82	10%	2.545
390	2051.1	1206	18720	1822.77	10%	2.443
392	2061.7	1149	18816	1745.832	9%	2.340
394	2072.3	1092	18912	1668.006	9%	2.236
396	2082.9	1035	19008	1589.292	8%	2.130
398	2093.5	978	19104	1509.69	8%	2.024
400	2104.1	922	19200	1429.2	7%	1.916
402	2114.7	865	19296	1347.822	7%	1.807

	404	2125.3	808	19392	1265.556	7%	1.696
	406	2135.9	751	19488	1182.402	6%	1.585
	408	2146.5	694	19584	1098.36	6%	1.472
	410	2157.1	637	19680	1013.43	5%	1.358
	412	2167.7	581	19776	927.612	5%	1.243
	414	2178.3	524	19872	840.906	4%	1.127
	416	2188.9	467	19968	753.312	4%	1.010
	418	2199.5	410	20064	664.83	3%	0.891
	420	2210.1	353	20160	575.46	3%	0.771
	422	2220.7	296	20256	485.202	2%	0.650
	424	2231.3	240	20352	394.056	2%	0.528
	426	2241.9	183	20448	302.022	1%	0.405
	428	2252.5	126	20544	209.1	1%	0.280
	430	2263.1	69	20640	115.29	1%	0.155
Computed Stall	<b>432</b>	<b>2273.7</b>	<b>12</b>	<b>20736</b>	<b>20.592</b>	<b>0%</b>	<b>0.028</b>

**Kv** 169 Astro 915P  
**Kt** 8  
**Arm Res** 0.021  
**No Load Current** 5  
**Kv \* Kt** 1352  
**Max Volts** 12

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	5	0	2028	60	0	0%	0.000
	6	8	2007	72	11.874	16%	0.016
	8	24	2000	96	35.496	37%	0.048
	10	40	1993	120	58.95	49%	0.079
	12	56	1985	144	82.236	57%	0.110
	14	72	1978	168	105.354	63%	0.141
	16	88	1971	192	128.304	67%	0.172
	18	104	1964	216	151.086	70%	0.203
	20	120	1957	240	173.7	72%	0.233
	22	136	1950	264	196.146	74%	0.263
	24	152	1943	288	218.424	76%	0.293
	26	168	1936	312	240.534	77%	0.322
	28	184	1929	336	262.476	78%	0.352
	30	200	1922	360	284.25	79%	0.381
	32	216	1914	384	305.856	80%	0.410
	34	232	1907	408	327.294	80%	0.439
	36	248	1900	432	348.564	81%	0.467
	38	264	1893	456	369.666	81%	0.496
	40	280	1886	480	390.6	81%	0.524
	42	296	1879	504	411.366	82%	0.551
	44	312	1872	528	431.964	82%	0.579
	46	328	1865	552	452.394	82%	0.606
	48	344	1858	576	472.656	82%	0.634
Max Amps	<b>50</b>	<b>360</b>	<b>1851</b>	<b>600</b>	<b>492.75</b>	<b>82%</b>	<b>0.661</b>
	52	376	1843	624	512.676	82%	0.687
	54	392	1836	648	532.434	82%	0.714
	56	408	1829	672	552.024	82%	0.740
	58	424	1822	696	571.446	82%	0.766
	60	440	1815	720	590.7	82%	0.792
	62	456	1808	744	609.786	82%	0.817
	64	472	1801	768	628.704	82%	0.843
	66	488	1794	792	647.454	82%	0.868
	68	504	1787	816	666.036	82%	0.893
	70	520	1780	840	684.45	81%	0.917
	72	536	1772	864	702.696	81%	0.942
	74	552	1765	888	720.774	81%	0.966
	76	568	1758	912	738.684	81%	0.990
	78	584	1751	936	756.426	81%	1.014
	80	600	1744	960	774	81%	1.038
	82	616	1737	984	791.406	80%	1.061
	84	632	1730	1008	808.644	80%	1.084
	86	648	1723	1032	825.714	80%	1.107
	88	664	1716	1056	842.616	80%	1.130
	90	680	1709	1080	859.35	80%	1.152

	92	696	1701	1104	875.916	79%	1.174
	94	712	1694	1128	892.314	79%	1.196
	96	728	1687	1152	908.544	79%	1.218
	98	744	1680	1176	924.606	79%	1.239
<b>Rated Stall</b>	<b>100</b>	<b>760</b>	<b>1673</b>	<b>1200</b>	<b>940.5</b>	<b>78%</b>	<b>1.261</b>
	102	776	1666	1224	956.226	78%	1.282
	104	792	1659	1248	971.784	78%	1.303
	106	808	1652	1272	987.174	78%	1.323
	108	824	1645	1296	1002.396	77%	1.344
	110	840	1638	1320	1017.45	77%	1.364
	112	856	1631	1344	1032.336	77%	1.384
	114	872	1623	1368	1047.054	77%	1.404
	116	888	1616	1392	1061.604	76%	1.423
	118	904	1609	1416	1075.986	76%	1.442
	120	920	1602	1440	1090.2	76%	1.461
	122	936	1595	1464	1104.246	75%	1.480
	124	952	1588	1488	1118.124	75%	1.499
	126	968	1581	1512	1131.834	75%	1.517
	128	984	1574	1536	1145.376	75%	1.535
	130	1000	1567	1560	1158.75	74%	1.553
	132	1016	1560	1584	1171.956	74%	1.571
	134	1032	1552	1608	1184.994	74%	1.588
	136	1048	1545	1632	1197.864	73%	1.606
	138	1064	1538	1656	1210.566	73%	1.623
	140	1080	1531	1680	1223.1	73%	1.640
	142	1096	1524	1704	1235.466	73%	1.656
	144	1112	1517	1728	1247.664	72%	1.672
	146	1128	1510	1752	1259.694	72%	1.689
	148	1144	1503	1776	1271.556	72%	1.704
	150	1160	1496	1800	1283.25	71%	1.720
	152	1176	1489	1824	1294.776	71%	1.736
	154	1192	1481	1848	1306.134	71%	1.751
	156	1208	1474	1872	1317.324	70%	1.766
	158	1224	1467	1896	1328.346	70%	1.781
	160	1240	1460	1920	1339.2	70%	1.795
	162	1256	1453	1944	1349.886	69%	1.809
	164	1272	1446	1968	1360.404	69%	1.824
	166	1288	1439	1992	1370.754	69%	1.837
	168	1304	1432	2016	1380.936	68%	1.851
	170	1320	1425	2040	1390.95	68%	1.865
	172	1336	1418	2064	1400.796	68%	1.878
	174	1352	1410	2088	1410.474	68%	1.891
	176	1368	1403	2112	1419.984	67%	1.903
	178	1384	1396	2136	1429.326	67%	1.916
	180	1400	1389	2160	1438.5	67%	1.928
	182	1416	1382	2184	1447.506	66%	1.940
	184	1432	1375	2208	1456.344	66%	1.952
	186	1448	1368	2232	1465.014	66%	1.964
	188	1464	1361	2256	1473.516	65%	1.975
	190	1480	1354	2280	1481.85	65%	1.986
	192	1496	1347	2304	1490.016	65%	1.997
	194	1512	1339	2328	1498.014	64%	2.008

196	1528	1332	2352	1505.844	64%	2.019
198	1544	1325	2376	1513.506	64%	2.029
200	1560	1318	2400	1521	63%	2.039
202	1576	1311	2424	1528.326	63%	2.049
204	1592	1304	2448	1535.484	63%	2.058
206	1608	1297	2472	1542.474	62%	2.068
208	1624	1290	2496	1549.296	62%	2.077
210	1640	1283	2520	1555.95	62%	2.086
212	1656	1276	2544	1562.436	61%	2.094
214	1672	1269	2568	1568.754	61%	2.103
216	1688	1261	2592	1574.904	61%	2.111
218	1704	1254	2616	1580.886	60%	2.119
220	1720	1247	2640	1586.7	60%	2.127
222	1736	1240	2664	1592.346	60%	2.135
224	1752	1233	2688	1597.824	59%	2.142
226	1768	1226	2712	1603.134	59%	2.149
228	1784	1219	2736	1608.276	59%	2.156
230	1800	1212	2760	1613.25	58%	2.163
232	1816	1205	2784	1618.056	58%	2.169
234	1832	1198	2808	1622.694	58%	2.175
236	1848	1190	2832	1627.164	57%	2.181
238	1864	1183	2856	1631.466	57%	2.187
240	1880	1176	2880	1635.6	57%	2.192
242	1896	1169	2904	1639.566	56%	2.198
244	1912	1162	2928	1643.364	56%	2.203
246	1928	1155	2952	1646.994	56%	2.208
248	1944	1148	2976	1650.456	55%	2.212
250	1960	1141	3000	1653.75	55%	2.217
252	1976	1134	3024	1656.876	55%	2.221
254	1992	1127	3048	1659.834	54%	2.225
256	2008	1119	3072	1662.624	54%	2.229
258	2024	1112	3096	1665.246	54%	2.232
260	2040	1105	3120	1667.7	53%	2.236
262	2056	1098	3144	1669.986	53%	2.239
264	2072	1091	3168	1672.104	53%	2.241
266	2088	1084	3192	1674.054	52%	2.244
268	2104	1077	3216	1675.836	52%	2.246
270	2120	1070	3240	1677.45	52%	2.249
272	2136	1063	3264	1678.896	51%	2.251
274	2152	1056	3288	1680.174	51%	2.252
276	2168	1048	3312	1681.284	51%	2.254
278	2184	1041	3336	1682.226	50%	2.255
280	2200	1034	3360	1683	50%	2.256
282	2216	1027	3384	1683.606	50%	2.257
284	2232	1020	3408	1684.044	49%	2.257
286	2248	1013	3432	1684.314	49%	2.258
288	2264	1006	3456	1684.416	49%	2.258
290	2280	999	3480	1684.35	48%	2.258
292	2296	992	3504	1684.116	48%	2.258
294	2312	985	3528	1683.714	48%	2.257
296	2328	977	3552	1683.144	47%	2.256
298	2344	970	3576	1682.406	47%	2.255

300	2360	963	3600	1681.5	47%	2.254
302	2376	956	3624	1680.426	46%	2.253
304	2392	949	3648	1679.184	46%	2.251
306	2408	942	3672	1677.774	46%	2.249
308	2424	935	3696	1676.196	45%	2.247
310	2440	928	3720	1674.45	45%	2.245
312	2456	921	3744	1672.536	45%	2.242
314	2472	914	3768	1670.454	44%	2.239
316	2488	907	3792	1668.204	44%	2.236
318	2504	899	3816	1665.786	44%	2.233
320	2520	892	3840	1663.2	43%	2.229
322	2536	885	3864	1660.446	43%	2.226
324	2552	878	3888	1657.524	43%	2.222
326	2568	871	3912	1654.434	42%	2.218
328	2584	864	3936	1651.176	42%	2.213
330	2600	857	3960	1647.75	42%	2.209
332	2616	850	3984	1644.156	41%	2.204
334	2632	843	4008	1640.394	41%	2.199
336	2648	836	4032	1636.464	41%	2.194
338	2664	828	4056	1632.366	40%	2.188
340	2680	821	4080	1628.1	40%	2.182
342	2696	814	4104	1623.666	40%	2.176
344	2712	807	4128	1619.064	39%	2.170
346	2728	800	4152	1614.294	39%	2.164
348	2744	793	4176	1609.356	39%	2.157
350	2760	786	4200	1604.25	38%	2.150
352	2776	779	4224	1598.976	38%	2.143
354	2792	772	4248	1593.534	38%	2.136
356	2808	765	4272	1587.924	37%	2.129
358	2824	757	4296	1582.146	37%	2.121
360	2840	750	4320	1576.2	36%	2.113
362	2856	743	4344	1570.086	36%	2.105
364	2872	736	4368	1563.804	36%	2.096
366	2888	729	4392	1557.354	35%	2.088
368	2904	722	4416	1550.736	35%	2.079
370	2920	715	4440	1543.95	35%	2.070
372	2936	708	4464	1536.996	34%	2.060
374	2952	701	4488	1529.874	34%	2.051
376	2968	694	4512	1522.584	34%	2.041
378	2984	686	4536	1515.126	33%	2.031
380	3000	679	4560	1507.5	33%	2.021
382	3016	672	4584	1499.706	33%	2.010
384	3032	665	4608	1491.744	32%	2.000
386	3048	658	4632	1483.614	32%	1.989
388	3064	651	4656	1475.316	32%	1.978
390	3080	644	4680	1466.85	31%	1.966
392	3096	637	4704	1458.216	31%	1.955
394	3112	630	4728	1449.414	31%	1.943
396	3128	623	4752	1440.444	30%	1.931
398	3144	615	4776	1431.306	30%	1.919
400	3160	608	4800	1422	30%	1.906
402	3176	601	4824	1412.526	29%	1.893

404	3192	594	4848	1402.884	29%	1.881
406	3208	587	4872	1393.074	29%	1.867
408	3224	580	4896	1383.096	28%	1.854
410	3240	573	4920	1372.95	28%	1.840
412	3256	566	4944	1362.636	28%	1.827
414	3272	559	4968	1352.154	27%	1.813
416	3288	552	4992	1341.504	27%	1.798
418	3304	545	5016	1330.686	27%	1.784
420	3320	537	5040	1319.7	26%	1.769
422	3336	530	5064	1308.546	26%	1.754
424	3352	523	5088	1297.224	25%	1.739
426	3368	516	5112	1285.734	25%	1.724
428	3384	509	5136	1274.076	25%	1.708
430	3400	502	5160	1262.25	24%	1.692
432	3416	495	5184	1250.256	24%	1.676
434	3432	488	5208	1238.094	24%	1.660
436	3448	481	5232	1225.764	23%	1.643
438	3464	474	5256	1213.266	23%	1.626
440	3480	466	5280	1200.6	23%	1.609
442	3496	459	5304	1187.766	22%	1.592
444	3512	452	5328	1174.764	22%	1.575
446	3528	445	5352	1161.594	22%	1.557
448	3544	438	5376	1148.256	21%	1.539
450	3560	431	5400	1134.75	21%	1.521
452	3576	424	5424	1121.076	21%	1.503
454	3592	417	5448	1107.234	20%	1.484
456	3608	410	5472	1093.224	20%	1.465
458	3624	403	5496	1079.046	20%	1.446
460	3640	395	5520	1064.7	19%	1.427
462	3656	388	5544	1050.186	19%	1.408
464	3672	381	5568	1035.504	19%	1.388
466	3688	374	5592	1020.654	18%	1.368
468	3704	367	5616	1005.636	18%	1.348
470	3720	360	5640	990.45	18%	1.328
472	3736	353	5664	975.096	17%	1.307
474	3752	346	5688	959.574	17%	1.286
476	3768	339	5712	943.884	17%	1.265
478	3784	332	5736	928.026	16%	1.244
480	3800	324	5760	912	16%	1.223
482	3816	317	5784	895.806	15%	1.201
484	3832	310	5808	879.444	15%	1.179
486	3848	303	5832	862.914	15%	1.157
488	3864	296	5856	846.216	14%	1.134
490	3880	289	5880	829.35	14%	1.112
492	3896	282	5904	812.316	14%	1.089
494	3912	275	5928	795.114	13%	1.066
496	3928	268	5952	777.744	13%	1.043
498	3944	261	5976	760.206	13%	1.019
500	3960	254	6000	742.5	12%	0.995
502	3976	246	6024	724.626	12%	0.971
504	3992	239	6048	706.584	12%	0.947
506	4008	232	6072	688.374	11%	0.923

508	4024	225	6096	669.996	11%	0.898	
510	4040	218	6120	651.45	11%	0.873	
512	4056	211	6144	632.736	10%	0.848	
514	4072	204	6168	613.854	10%	0.823	
516	4088	197	6192	594.804	10%	0.797	
518	4104	190	6216	575.586	9%	0.772	
520	4120	183	6240	556.2	9%	0.746	
522	4136	175	6264	536.646	9%	0.719	
524	4152	168	6288	516.924	8%	0.693	
526	4168	161	6312	497.034	8%	0.666	
528	4184	154	6336	476.976	8%	0.639	
530	4200	147	6360	456.75	7%	0.612	
532	4216	140	6384	436.356	7%	0.585	
534	4232	133	6408	415.794	6%	0.557	
536	4248	126	6432	395.064	6%	0.530	
538	4264	119	6456	374.166	6%	0.502	
540	4280	112	6480	353.1	5%	0.473	
542	4296	104	6504	331.866	5%	0.445	
544	4312	97	6528	310.464	5%	0.416	
546	4328	90	6552	288.894	4%	0.387	
548	4344	83	6576	267.156	4%	0.358	
550	4360	76	6600	245.25	4%	0.329	
552	4376	69	6624	223.176	3%	0.299	
554	4392	62	6648	200.934	3%	0.269	
556	4408	55	6672	178.524	3%	0.239	
558	4424	48	6696	155.946	2%	0.209	
560	4440	41	6720	133.2	2%	0.179	
562	4456	33	6744	110.286	2%	0.148	
564	4472	26	6768	87.204	1%	0.117	
566	4488	19	6792	63.954	1%	0.086	
568	4504	12	6816	40.536	1%	0.054	
Computed Stall	<b>570</b>	<b>4520</b>	<b>5</b>	<b>6840</b>	<b>16.95</b>	<b>0%</b>	<b>0.023</b>

**Kv** 45 Astro 940P  
**Kt** 30  
**Arm Res** 0.121  
**No Load Current** 3  
**Kv \* Kt** 1350  
**Max Volts** 24

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	1080	72	0	0%	0.000
	6	90	1047	144	69.822	48%	0.094
	8	150	1036	192	115.16	60%	0.154
	10	210	1026	240	159.53	66%	0.214
	12	270	1015	288	202.932	70%	0.272
	14	330	1004	336	245.366	73%	0.329
	16	390	993	384	286.832	75%	0.384
	18	450	982	432	327.33	76%	0.439
	20	510	971	480	366.86	76%	0.492
	22	570	960	528	405.422	77%	0.543
	24	630	949	576	443.016	77%	0.594
	26	690	938	624	479.642	77%	0.643
	28	750	928	672	515.3	77%	0.691
	30	810	917	720	549.99	76%	0.737
	32	870	906	768	583.712	76%	0.782
Max Amps (35)	<b>35</b>	<b>960</b>	<b>889</b>	<b>840</b>	<b>632.48</b>	<b>75%</b>	<b>0.848</b>
	36	990	884	864	648.252	75%	0.869
	38	1050	873	912	679.07	74%	0.910
	40	1110	862	960	708.92	74%	0.950
	42	1170	851	1008	737.802	73%	0.989
	44	1230	840	1056	765.716	73%	1.026
	46	1290	830	1104	792.662	72%	1.063
	48	1350	819	1152	818.64	71%	1.097
	50	1410	808	1200	843.65	70%	1.131
	52	1470	797	1248	867.692	70%	1.163
	54	1530	786	1296	890.766	69%	1.194
	56	1590	775	1344	912.872	68%	1.224
	58	1650	764	1392	934.01	67%	1.252
	60	1710	753	1440	954.18	66%	1.279
	62	1770	742	1488	973.382	65%	1.305
	64	1830	732	1536	991.616	65%	1.329
	66	1890	721	1584	1008.882	64%	1.352
	68	1950	710	1632	1025.18	63%	1.374
	70	2010	699	1680	1040.51	62%	1.395
	72	2070	688	1728	1054.872	61%	1.414
	74	2130	677	1776	1068.266	60%	1.432
	76	2190	666	1824	1080.692	59%	1.449
	78	2250	655	1872	1092.15	58%	1.464
	80	2310	644	1920	1102.64	57%	1.478
	82	2370	634	1968	1112.162	57%	1.491
	84	2430	623	2016	1120.716	56%	1.502
	86	2490	612	2064	1128.302	55%	1.512
	88	2550	601	2112	1134.92	54%	1.521
	90	2610	590	2160	1140.57	53%	1.529

	92	2670	579	2208	1145.252	52%	1.535
	94	2730	568	2256	1148.966	51%	1.540
	96	2790	557	2304	1151.712	50%	1.544
	98	2850	546	2352	1153.49	49%	1.546
<b>Rated Stall</b>	<b>100</b>	<b>2910</b>	<b>536</b>	<b>2400</b>	<b>1154.3</b>	<b>48%</b>	<b>1.547</b>
	102	2970	525	2448	1154.142	47%	1.547
	104	3030	514	2496	1153.016	46%	1.546
	106	3090	503	2544	1150.922	45%	1.543
	108	3150	492	2592	1147.86	44%	1.539
	110	3210	481	2640	1143.83	43%	1.533
	112	3270	470	2688	1138.832	42%	1.527
	114	3330	459	2736	1132.866	41%	1.519
	116	3390	448	2784	1125.932	40%	1.509
	118	3450	437	2832	1118.03	39%	1.499
	120	3510	427	2880	1109.16	39%	1.487
	122	3570	416	2928	1099.322	38%	1.474
	124	3630	405	2976	1088.516	37%	1.459
	126	3690	394	3024	1076.742	36%	1.443
	128	3750	383	3072	1064	35%	1.426
	130	3810	372	3120	1050.29	34%	1.408
	132	3870	361	3168	1035.612	33%	1.388
	134	3930	350	3216	1019.966	32%	1.367
	136	3990	339	3264	1003.352	31%	1.345
	138	4050	329	3312	985.77	30%	1.321
	140	4110	318	3360	967.22	29%	1.297
	142	4170	307	3408	947.702	28%	1.270
	144	4230	296	3456	927.216	27%	1.243
	146	4290	285	3504	905.762	26%	1.214
	148	4350	274	3552	883.34	25%	1.184
	150	4410	263	3600	859.95	24%	1.153
	152	4470	252	3648	835.592	23%	1.120
	154	4530	241	3696	810.266	22%	1.086
	156	4590	231	3744	783.972	21%	1.051
	158	4650	220	3792	756.71	20%	1.014
	160	4710	209	3840	728.48	19%	0.977
	162	4770	198	3888	699.282	18%	0.937
	164	4830	187	3936	669.116	17%	0.897
	166	4890	176	3984	637.982	16%	0.855
	168	4950	165	4032	605.88	15%	0.812
	170	5010	154	4080	572.81	14%	0.768
	172	5070	143	4128	538.772	13%	0.722
	174	5130	133	4176	503.766	12%	0.675
	176	5190	122	4224	467.792	11%	0.627
	178	5250	111	4272	430.85	10%	0.578
	180	5310	100	4320	392.94	9%	0.527
	182	5370	89	4368	354.062	8%	0.475
	184	5430	78	4416	314.216	7%	0.421
	186	5490	67	4464	273.402	6%	0.366
	188	5550	56	4512	231.62	5%	0.310
	190	5610	45	4560	188.87	4%	0.253
	192	5670	35	4608	145.152	3%	0.195
	194	5730	24	4656	100.466	2%	0.135

Computed Stall	196	5790	13	4704	54.812	1%	0.073
	<b>198</b>	<b>5850</b>	<b>2</b>	<b>4752</b>	<b>8.19</b>	<b>0%</b>	<b>0.011</b>

**Kv** 23 Astro 960P  
**Kt** 54  
**Arm Res** 0.103  
**No Load Current** 3  
**Kv \* Kt** 1242  
**Max Volts** 36

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	828	108	0	0%	0.000
	6	162	814	216	106.146	49%	0.142
	8	270	809	288	175.88	61%	0.236
	10	378	804	360	244.79	68%	0.328
	12	486	800	432	312.876	72%	0.419
	14	594	795	504	380.138	75%	0.510
	16	702	790	576	446.576	78%	0.599
	18	810	785	648	512.19	79%	0.687
	20	918	781	720	576.98	80%	0.773
	22	1026	776	792	640.946	81%	0.859
	24	1134	771	864	704.088	81%	0.944
	26	1242	766	936	766.406	82%	1.027
	28	1350	762	1008	827.9	82%	1.110
	30	1458	757	1080	888.57	82%	1.191
	32	1566	752	1152	948.416	82%	1.271
Max Amps (35)	<b>35</b>	<b>1728</b>	<b>745</b>	<b>1260</b>	<b>1036.64</b>	<b>82%</b>	<b>1.390</b>
	36	1782	743	1296	1065.636	82%	1.428
	38	1890	738	1368	1123.01	82%	1.505
	40	1998	733	1440	1179.56	82%	1.581
	42	2106	729	1512	1235.286	82%	1.656
	44	2214	724	1584	1290.188	81%	1.729
	46	2322	719	1656	1344.266	81%	1.802
	48	2430	714	1728	1397.52	81%	1.873
	50	2538	710	1800	1449.95	81%	1.944
	52	2646	705	1872	1501.556	80%	2.013
	54	2754	700	1944	1552.338	80%	2.081
	56	2862	695	2016	1602.296	79%	2.148
	58	2970	691	2088	1651.43	79%	2.214
	60	3078	686	2160	1699.74	79%	2.278
	62	3186	681	2232	1747.226	78%	2.342
	64	3294	676	2304	1793.888	78%	2.405
	66	3402	672	2376	1839.726	77%	2.466
	68	3510	667	2448	1884.74	77%	2.526
	70	3618	662	2520	1928.93	77%	2.586
	72	3726	657	2592	1972.296	76%	2.644
	74	3834	653	2664	2014.838	76%	2.701
	76	3942	648	2736	2056.556	75%	2.757
	78	4050	643	2808	2097.45	75%	2.812
	80	4158	638	2880	2137.52	74%	2.865
	82	4266	634	2952	2176.766	74%	2.918
	84	4374	629	3024	2215.188	73%	2.969
	86	4482	624	3096	2252.786	73%	3.020
	88	4590	620	3168	2289.56	72%	3.069
	90	4698	615	3240	2325.51	72%	3.117

	92	4806	610	3312	2360.636	71%	3.164
	94	4914	605	3384	2394.938	71%	3.210
	96	5022	601	3456	2428.416	70%	3.255
	98	5130	596	3528	2461.07	70%	3.299
<b>Rated Stall</b>	<b>100</b>	<b>5238</b>	<b>591</b>	<b>3600</b>	<b>2492.9</b>	<b>69%</b>	<b>3.342</b>
	102	5346	586	3672	2523.906	69%	3.383
	104	5454	582	3744	2554.088	68%	3.424
	106	5562	577	3816	2583.446	68%	3.463
	108	5670	572	3888	2611.98	67%	3.501
	110	5778	567	3960	2639.69	67%	3.538
	112	5886	563	4032	2666.576	66%	3.574
	114	5994	558	4104	2692.638	66%	3.609
	116	6102	553	4176	2717.876	65%	3.643
	118	6210	548	4248	2742.29	65%	3.676
	120	6318	544	4320	2765.88	64%	3.708
	122	6426	539	4392	2788.646	63%	3.738
	124	6534	534	4464	2810.588	63%	3.768
	126	6642	530	4536	2831.706	62%	3.796
	128	6750	525	4608	2852	62%	3.823
	130	6858	520	4680	2871.47	61%	3.849
	132	6966	515	4752	2890.116	61%	3.874
	134	7074	511	4824	2907.938	60%	3.898
	136	7182	506	4896	2924.936	60%	3.921
	138	7290	501	4968	2941.11	59%	3.943
	140	7398	496	5040	2956.46	59%	3.963
	142	7506	492	5112	2970.986	58%	3.983
	144	7614	487	5184	2984.688	58%	4.001
	146	7722	482	5256	2997.566	57%	4.018
	148	7830	477	5328	3009.62	56%	4.034
	150	7938	473	5400	3020.85	56%	4.049
	152	8046	468	5472	3031.256	55%	4.063
	154	8154	463	5544	3040.838	55%	4.076
	156	8262	458	5616	3049.596	54%	4.088
	158	8370	454	5688	3057.53	54%	4.099
	160	8478	449	5760	3064.64	53%	4.108
	162	8586	444	5832	3070.926	53%	4.117
	164	8694	439	5904	3076.388	52%	4.124
	166	8802	435	5976	3081.026	52%	4.130
	168	8910	430	6048	3084.84	51%	4.135
	170	9018	425	6120	3087.83	50%	4.139
	172	9126	421	6192	3089.996	50%	4.142
	174	9234	416	6264	3091.338	49%	4.144
	176	9342	411	6336	3091.856	49%	4.145
	178	9450	406	6408	3091.55	48%	4.144
	180	9558	402	6480	3090.42	48%	4.143
	182	9666	397	6552	3088.466	47%	4.140
	184	9774	392	6624	3085.688	47%	4.136
	186	9882	387	6696	3082.086	46%	4.131
	188	9990	383	6768	3077.66	45%	4.126
	190	10098	378	6840	3072.41	45%	4.119
	192	10206	373	6912	3066.336	44%	4.110
	194	10314	368	6984	3059.438	44%	4.101

196	10422	364	7056	3051.716	43%	4.091
198	10530	359	7128	3043.17	43%	4.079
200	10638	354	7200	3033.8	42%	4.067
202	10746	349	7272	3023.606	42%	4.053
204	10854	345	7344	3012.588	41%	4.038
206	10962	340	7416	3000.746	40%	4.022
208	11070	335	7488	2988.08	40%	4.005
210	11178	331	7560	2974.59	39%	3.987
212	11286	326	7632	2960.276	39%	3.968
214	11394	321	7704	2945.138	38%	3.948
216	11502	316	7776	2929.176	38%	3.927
218	11610	312	7848	2912.39	37%	3.904
220	11718	307	7920	2894.78	37%	3.880
222	11826	302	7992	2876.346	36%	3.856
224	11934	297	8064	2857.088	35%	3.830
226	12042	293	8136	2837.006	35%	3.803
228	12150	288	8208	2816.1	34%	3.775
230	12258	283	8280	2794.37	34%	3.746
232	12366	278	8352	2771.816	33%	3.716
234	12474	274	8424	2748.438	33%	3.684
236	12582	269	8496	2724.236	32%	3.652
238	12690	264	8568	2699.21	32%	3.618
240	12798	259	8640	2673.36	31%	3.584
242	12906	255	8712	2646.686	30%	3.548
244	13014	250	8784	2619.188	30%	3.511
246	13122	245	8856	2590.866	29%	3.473
248	13230	240	8928	2561.72	29%	3.434
250	13338	236	9000	2531.75	28%	3.394
252	13446	231	9072	2500.956	28%	3.352
254	13554	226	9144	2469.338	27%	3.310
256	13662	222	9216	2436.896	26%	3.267
258	13770	217	9288	2403.63	26%	3.222
260	13878	212	9360	2369.54	25%	3.176
262	13986	207	9432	2334.626	25%	3.130
264	14094	203	9504	2298.888	24%	3.082
266	14202	198	9576	2262.326	24%	3.033
268	14310	193	9648	2224.94	23%	2.982
270	14418	188	9720	2186.73	22%	2.931
272	14526	184	9792	2147.696	22%	2.879
274	14634	179	9864	2107.838	21%	2.826
276	14742	174	9936	2067.156	21%	2.771
278	14850	169	10008	2025.65	20%	2.715
280	14958	165	10080	1983.32	20%	2.659
282	15066	160	10152	1940.166	19%	2.601
284	15174	155	10224	1896.188	19%	2.542
286	15282	150	10296	1851.386	18%	2.482
288	15390	146	10368	1805.76	17%	2.421
290	15498	141	10440	1759.31	17%	2.358
292	15606	136	10512	1712.036	16%	2.295
294	15714	132	10584	1663.938	16%	2.230
296	15822	127	10656	1615.016	15%	2.165
298	15930	122	10728	1565.27	15%	2.098

300	16038	117	10800	1514.7	14%	2.030	
302	16146	113	10872	1463.306	13%	1.962	
304	16254	108	10944	1411.088	13%	1.892	
306	16362	103	11016	1358.046	12%	1.820	
308	16470	98	11088	1304.18	12%	1.748	
310	16578	94	11160	1249.49	11%	1.675	
312	16686	89	11232	1193.976	11%	1.601	
314	16794	84	11304	1137.638	10%	1.525	
316	16902	79	11376	1080.476	9%	1.448	
318	17010	75	11448	1022.49	9%	1.371	
320	17118	70	11520	963.68	8%	1.292	
322	17226	65	11592	904.046	8%	1.212	
324	17334	60	11664	843.588	7%	1.131	
326	17442	56	11736	782.306	7%	1.049	
328	17550	51	11808	720.2	6%	0.965	
330	17658	46	11880	657.27	6%	0.881	
332	17766	41	11952	593.516	5%	0.796	
334	17874	37	12024	528.938	4%	0.709	
336	17982	32	12096	463.536	4%	0.621	
338	18090	27	12168	397.31	3%	0.533	
340	18198	23	12240	330.26	3%	0.443	
342	18306	18	12312	262.386	2%	0.352	
344	18414	13	12384	193.688	2%	0.260	
346	18522	8	12456	124.166	1%	0.166	
Computer Stall	<b>348</b>	<b>18630</b>	<b>4</b>	<b>12528</b>	<b>53.82</b>	<b>0%</b>	<b>0.072</b>

Kv	18.3	Astro 990P
Kt	74	
Arm Res	0.111	
No Load Current	3	
Kv * Kt	1354.2	
Max Volts	48	

	Amps	Torque	RPM	Power In	Power Out	Efficiency	HP
	3	0	878	144	0	0%	0.000
	6	222	866	288	142.002	49%	0.190
	8	370	862	384	235.56	61%	0.316
	10	518	858	480	328.23	68%	0.440
	12	666	854	576	420.012	73%	0.563
	14	814	850	672	510.906	76%	0.685
	16	962	846	768	600.912	78%	0.806
	18	1110	842	864	690.03	80%	0.925
	20	1258	838	960	778.26	81%	1.043
	22	1406	834	1056	865.602	82%	1.160
	24	1554	830	1152	952.056	83%	1.276
	26	1702	826	1248	1037.622	83%	1.391
	28	1850	822	1344	1122.3	84%	1.504
	30	1998	817	1440	1206.09	84%	1.617
	32	2146	813	1536	1288.992	84%	1.728
Max Amps (35)	<b>35</b>	<b>2368</b>	<b>807</b>	<b>1680</b>	<b>1411.68</b>	<b>84%</b>	<b>1.892</b>
	36	2442	805	1728	1452.132	84%	1.947
	38	2590	801	1824	1532.37	84%	2.054
	40	2738	797	1920	1611.72	84%	2.160
	42	2886	793	2016	1690.182	84%	2.266
	44	3034	789	2112	1767.756	84%	2.370
	46	3182	785	2208	1844.442	84%	2.472
	48	3330	781	2304	1920.24	83%	2.574
	50	3478	777	2400	1995.15	83%	2.674
	52	3626	773	2496	2069.172	83%	2.774
	54	3774	769	2592	2142.306	83%	2.872
	56	3922	765	2688	2214.552	82%	2.969
	58	4070	761	2784	2285.91	82%	3.064
	60	4218	757	2880	2356.38	82%	3.159
	62	4366	752	2976	2425.962	82%	3.252
	64	4514	748	3072	2494.656	81%	3.344
	66	4662	744	3168	2562.462	81%	3.435
	68	4810	740	3264	2629.38	81%	3.525
	70	4958	736	3360	2695.41	80%	3.613
	72	5106	732	3456	2760.552	80%	3.700
	74	5254	728	3552	2824.806	80%	3.787
	76	5402	724	3648	2888.172	79%	3.872
	78	5550	720	3744	2950.65	79%	3.955
	80	5698	716	3840	3012.24	78%	4.038
	82	5846	712	3936	3072.942	78%	4.119
	84	5994	708	4032	3132.756	78%	4.199
	86	6142	704	4128	3191.682	77%	4.278
	88	6290	700	4224	3249.72	77%	4.356
	90	6438	696	4320	3306.87	77%	4.433

	92	6586	692	4416	3363.132	76%	4.508
	94	6734	687	4512	3418.506	76%	4.582
	96	6882	683	4608	3472.992	75%	4.655
	98	7030	679	4704	3526.59	75%	4.727
<b>Rated Stall</b>	<b>100</b>	<b>7178</b>	<b>675</b>	<b>4800</b>	<b>3579.3</b>	<b>75%</b>	<b>4.798</b>
	102	7326	671	4896	3631.122	74%	4.867
	104	7474	667	4992	3682.056	74%	4.936
	106	7622	663	5088	3732.102	73%	5.003
	108	7770	659	5184	3781.26	73%	5.069
	110	7918	655	5280	3829.53	73%	5.133
	112	8066	651	5376	3876.912	72%	5.197
	114	8214	647	5472	3923.406	72%	5.259
	116	8362	643	5568	3969.012	71%	5.320
	118	8510	639	5664	4013.73	71%	5.380
	120	8658	635	5760	4057.56	70%	5.439
	122	8806	631	5856	4100.502	70%	5.497
	124	8954	627	5952	4142.556	70%	5.553
	126	9102	622	6048	4183.722	69%	5.608
	128	9250	618	6144	4224	69%	5.662
	130	9398	614	6240	4263.39	68%	5.715
	132	9546	610	6336	4301.892	68%	5.767
	134	9694	606	6432	4339.506	67%	5.817
	136	9842	602	6528	4376.232	67%	5.866
	138	9990	598	6624	4412.07	67%	5.914
	140	10138	594	6720	4447.02	66%	5.961
	142	10286	590	6816	4481.082	66%	6.007
	144	10434	586	6912	4514.256	65%	6.051
	146	10582	582	7008	4546.542	65%	6.095
	148	10730	578	7104	4577.94	64%	6.137
	150	10878	574	7200	4608.45	64%	6.178
	152	11026	570	7296	4638.072	64%	6.217
	154	11174	566	7392	4666.806	63%	6.256
	156	11322	562	7488	4694.652	63%	6.293
	158	11470	557	7584	4721.61	62%	6.329
	160	11618	553	7680	4747.68	62%	6.364
	162	11766	549	7776	4772.862	61%	6.398
	164	11914	545	7872	4797.156	61%	6.431
	166	12062	541	7968	4820.562	60%	6.462
	168	12210	537	8064	4843.08	60%	6.492
	170	12358	533	8160	4864.71	60%	6.521
	172	12506	529	8256	4885.452	59%	6.549
	174	12654	525	8352	4905.306	59%	6.575
	176	12802	521	8448	4924.272	58%	6.601
	178	12950	517	8544	4942.35	58%	6.625
	180	13098	513	8640	4959.54	57%	6.648
	182	13246	509	8736	4975.842	57%	6.670
	184	13394	505	8832	4991.256	57%	6.691
	186	13542	501	8928	5005.782	56%	6.710
	188	13690	497	9024	5019.42	56%	6.728
	190	13838	492	9120	5032.17	55%	6.746
	192	13986	488	9216	5044.032	55%	6.761
	194	14134	484	9312	5055.006	54%	6.776

196	14282	480	9408	5065.092	54%	6.790
198	14430	476	9504	5074.29	53%	6.802
200	14578	472	9600	5082.6	53%	6.813
202	14726	468	9696	5090.022	52%	6.823
204	14874	464	9792	5096.556	52%	6.832
206	15022	460	9888	5102.202	52%	6.839
208	15170	456	9984	5106.96	51%	6.846
210	15318	452	10080	5110.83	51%	6.851
212	15466	448	10176	5113.812	50%	6.855
214	15614	444	10272	5115.906	50%	6.858
216	15762	440	10368	5117.112	49%	6.859
218	15910	436	10464	5117.43	49%	6.860
220	16058	432	10560	5116.86	48%	6.859
222	16206	427	10656	5115.402	48%	6.857
224	16354	423	10752	5113.056	48%	6.854
226	16502	419	10848	5109.822	47%	6.850
228	16650	415	10944	5105.7	47%	6.844
230	16798	411	11040	5100.69	46%	6.837
232	16946	407	11136	5094.792	46%	6.829
234	17094	403	11232	5088.006	45%	6.820
236	17242	399	11328	5080.332	45%	6.810
238	17390	395	11424	5071.77	44%	6.799
240	17538	391	11520	5062.32	44%	6.786
242	17686	387	11616	5051.982	43%	6.772
244	17834	383	11712	5040.756	43%	6.757
246	17982	379	11808	5028.642	43%	6.741
248	18130	375	11904	5015.64	42%	6.723
250	18278	371	12000	5001.75	42%	6.705
252	18426	367	12096	4986.972	41%	6.685
254	18574	362	12192	4971.306	41%	6.664
256	18722	358	12288	4954.752	40%	6.642
258	18870	354	12384	4937.31	40%	6.618
260	19018	350	12480	4918.98	39%	6.594
262	19166	346	12576	4899.762	39%	6.568
264	19314	342	12672	4879.656	39%	6.541
266	19462	338	12768	4858.662	38%	6.513
268	19610	334	12864	4836.78	38%	6.484
270	19758	330	12960	4814.01	37%	6.453
272	19906	326	13056	4790.352	37%	6.421
274	20054	322	13152	4765.806	36%	6.388
276	20202	318	13248	4740.372	36%	6.354
278	20350	314	13344	4714.05	35%	6.319
280	20498	310	13440	4686.84	35%	6.283
282	20646	306	13536	4658.742	34%	6.245
284	20794	302	13632	4629.756	34%	6.206
286	20942	297	13728	4599.882	34%	6.166
288	21090	293	13824	4569.12	33%	6.125
290	21238	289	13920	4537.47	33%	6.082
292	21386	285	14016	4504.932	32%	6.039
294	21534	281	14112	4471.506	32%	5.994
296	21682	277	14208	4437.192	31%	5.948
298	21830	273	14304	4401.99	31%	5.901

300	21978	269	14400	4365.9	30%	5.852
302	22126	265	14496	4328.922	30%	5.803
304	22274	261	14592	4291.056	29%	5.752
306	22422	257	14688	4252.302	29%	5.700
308	22570	253	14784	4212.66	28%	5.647
310	22718	249	14880	4172.13	28%	5.593
312	22866	245	14976	4130.712	28%	5.537
314	23014	241	15072	4088.406	27%	5.480
316	23162	237	15168	4045.212	27%	5.423
318	23310	232	15264	4001.13	26%	5.363
320	23458	228	15360	3956.16	26%	5.303
322	23606	224	15456	3910.302	25%	5.242
324	23754	220	15552	3863.556	25%	5.179
326	23902	216	15648	3815.922	24%	5.115
328	24050	212	15744	3767.4	24%	5.050
330	24198	208	15840	3717.99	23%	4.984
332	24346	204	15936	3667.692	23%	4.916
334	24494	200	16032	3616.506	23%	4.848
336	24642	196	16128	3564.432	22%	4.778
338	24790	192	16224	3511.47	22%	4.707
340	24938	188	16320	3457.62	21%	4.635
342	25086	184	16416	3402.882	21%	4.562
344	25234	180	16512	3347.256	20%	4.487
346	25382	176	16608	3290.742	20%	4.411
348	25530	172	16704	3233.34	19%	4.334
350	25678	167	16800	3175.05	19%	4.256
352	25826	163	16896	3115.872	18%	4.177
354	25974	159	16992	3055.806	18%	4.096
356	26122	155	17088	2994.852	18%	4.015
358	26270	151	17184	2933.01	17%	3.932
360	26418	147	17280	2870.28	17%	3.848
362	26566	143	17376	2806.662	16%	3.762
364	26714	139	17472	2742.156	16%	3.676
366	26862	135	17568	2676.762	15%	3.588
368	27010	131	17664	2610.48	15%	3.499
370	27158	127	17760	2543.31	14%	3.409
372	27306	123	17856	2475.252	14%	3.318
374	27454	119	17952	2406.306	13%	3.226
376	27602	115	18048	2336.472	13%	3.132
378	27750	111	18144	2265.75	12%	3.037
380	27898	107	18240	2194.14	12%	2.941
382	28046	102	18336	2121.642	12%	2.844
384	28194	98	18432	2048.256	11%	2.746
386	28342	94	18528	1973.982	11%	2.646
388	28490	90	18624	1898.82	10%	2.545
390	28638	86	18720	1822.77	10%	2.443
392	28786	82	18816	1745.832	9%	2.340
394	28934	78	18912	1668.006	9%	2.236
396	29082	74	19008	1589.292	8%	2.130
398	29230	70	19104	1509.69	8%	2.024
400	29378	66	19200	1429.2	7%	1.916
402	29526	62	19296	1347.822	7%	1.807

	404	29674	58	19392	1265.556	7%	1.696
	406	29822	54	19488	1182.402	6%	1.585
	408	29970	50	19584	1098.36	6%	1.472
	410	30118	46	19680	1013.43	5%	1.358
	412	30266	42	19776	927.612	5%	1.243
	414	30414	37	19872	840.906	4%	1.127
	416	30562	33	19968	753.312	4%	1.010
	418	30710	29	20064	664.83	3%	0.891
	420	30858	25	20160	575.46	3%	0.771
	422	31006	21	20256	485.202	2%	0.650
	424	31154	17	20352	394.056	2%	0.528
	426	31302	13	20448	302.022	1%	0.405
	428	31450	9	20544	209.1	1%	0.280
	430	31598	5	20640	115.29	1%	0.155
Computed Stall	<b>432</b>	<b>31746</b>	<b>1</b>	<b>20736</b>	<b>20.592</b>	<b>0%</b>	<b>0.028</b>