

TorsionTec

test results

#HRY00002

20P-145T-PMG

STATOR AMPS	L1-L2 VOLTS	L2-L3 VOLTS	L3-L1 VOLTS	Efficiency %	VOLTS /RPM	ROTOR RPM	TOTAL WATTS	WATTS /RPM
0.00	583.2	583.2	583.2	-	0.972	600	0	0.000
1.03	568.8	568.8	568.8	98%	0.948	600	1,014	1.689
2.07	554.2	554.2	554.2	95%	0.924	600	1,985	3.308
3.10	539.8	539.8	539.8	93%	0.900	600	2,895	4.825
3.68	531.7	531.7	531.7	91%	0.886	600	3,385	5.641
4.23	524.0	524.0	524.0	90%	0.873	600	3,834	6.391
4.92	514.3	514.3	514.3	88%	0.857	600	4,378	7.296
5.89	500.7	500.7	500.7	86%	0.835	600	5,102	8.504
6.80	488.0	488.0	488.0	84%	0.813	600	5,741	9.568
7.18	482.7	482.7	482.7	83%	0.804	600	5,996	9.993
8.70	461.4	461.4	461.4	79%	0.769	600	6,945	11.574
9.26	453.6	453.6	453.6	78%	0.756	600	7,266	12.110
10.50	436.2	436.2	436.2	75%	0.727	600	7,924	13.206
11.40	423.6	423.6	423.6	73%	0.706	600	8,354	13.924
12.24	411.8	411.8	411.8	71%	0.686	600	8,721	14.535
14.20	384.4	384.4	384.4	53%	0.641	600	9,443	15.739

90 VDC (6.5 ADC) STATIC TORQUE TEST 68 - 70 FOOT LBS.
DRIVE MOTOR SIEMENS 5 HP 3-PHASE CONNECTED IN SERIES WYE
TESTING DONE WITH ALTERNATOR CONNECTED IN SERIES WYE
TRUE RMS TEST INSTRUMENTS USED

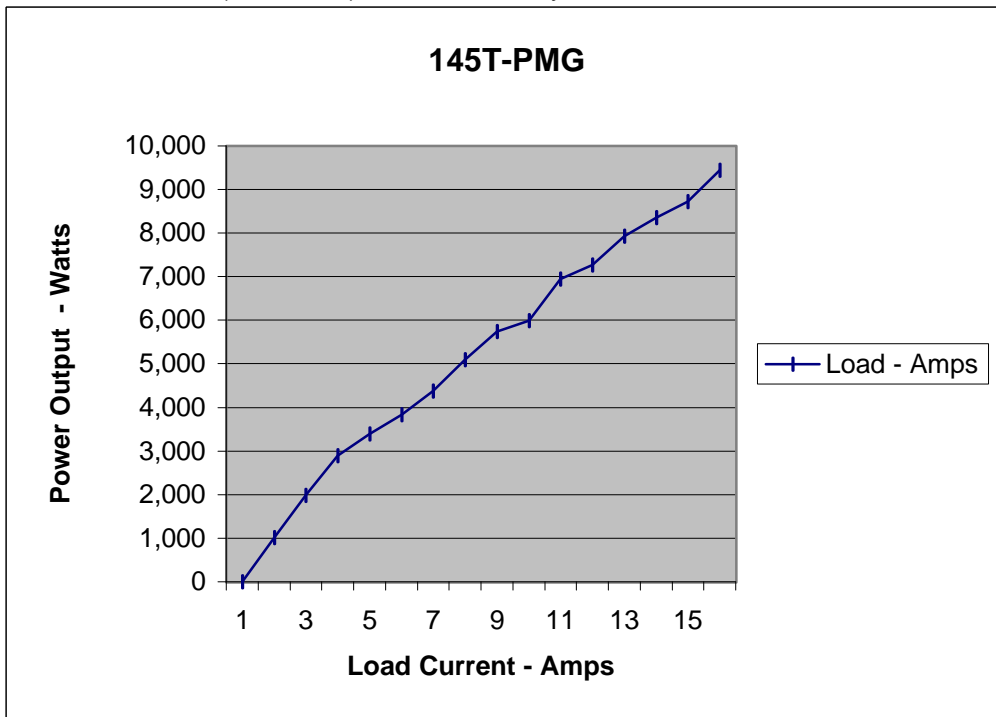
Air over cooling

Air or liquid Heat Sink

Less than 1 minute

TEDCO ELECTRIC (1988 INC.)

May 26th, 2006



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0.00	486.0	486.0	486.0	-	0.972	500	0	0.000
1.03	471.6	471.6	471.6	97%	0.943	500	840	1.681
2.07	457.0	457.0	457.0	94%	0.914	500	1,637	3.273
3.10	442.6	442.6	442.6	91%	0.885	500	2,374	4.747
3.68	434.5	434.5	434.5	89%	0.869	500	2,766	5.532
4.23	426.8	426.8	426.8	88%	0.854	500	3,123	6.246
4.92	417.1	417.1	417.1	86%	0.834	500	3,550	7.101
5.89	403.5	403.5	403.5	83%	0.807	500	4,112	8.224
6.80	390.8	390.8	390.8	80%	0.782	500	4,597	9.195
7.18	385.5	385.5	385.5	79%	0.771	500	4,788	9.576
8.70	364.2	364.2	364.2	75%	0.728	500	5,482	10.963
9.26	356.4	356.4	356.4	73%	0.713	500	5,709	11.418
10.50	339.0	339.0	339.0	70%	0.678	500	6,158	12.316
11.40	326.4	326.4	326.4	67%	0.653	500	6,437	12.875
12.24	314.6	314.6	314.6	65%	0.629	500	6,663	13.325
14.20	287.2	287.2	287.2	39%	0.574	500	7,055	14.111

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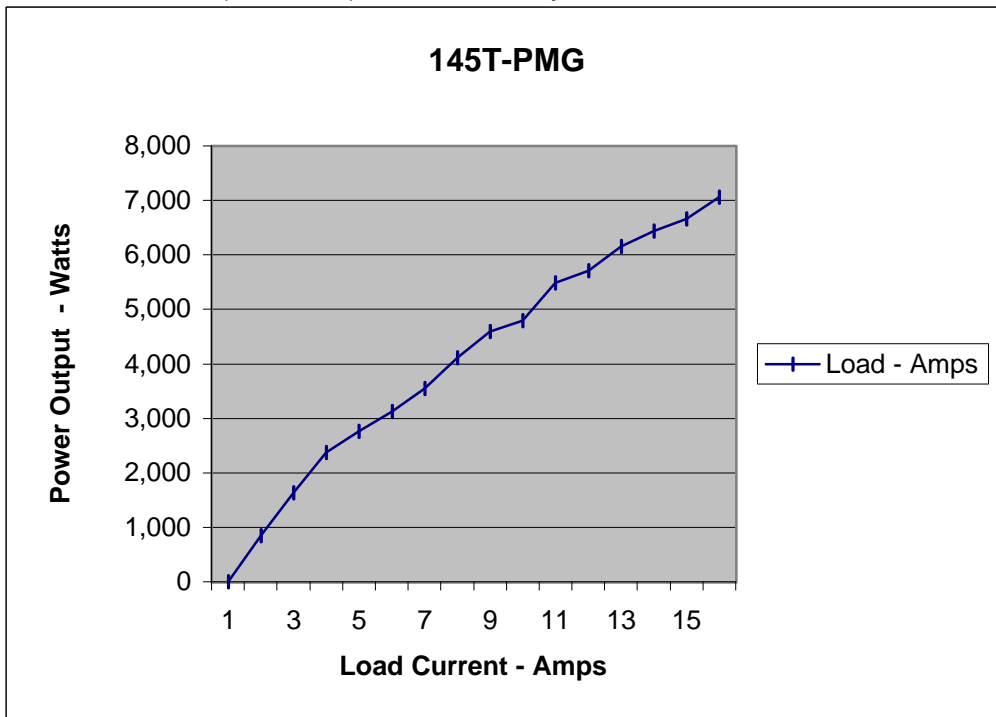
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0.00	349.9	349.9	349.9	-	0.972	360	0	0.000
1.03	335.5	335.5	335.5	96%	0.932	360	598	1.661
2.07	320.9	320.9	320.9	92%	0.892	360	1,149	3.193
3.10	306.5	306.5	306.5	88%	0.851	360	1,644	4.566
3.68	298.4	298.4	298.4	85%	0.829	360	1,900	5.277
4.23	290.7	290.7	290.7	83%	0.808	360	2,127	5.909
4.92	281.0	281.0	281.0	80%	0.781	360	2,392	6.645
5.89	267.5	267.5	267.5	76%	0.743	360	2,725	7.570
6.80	254.7	254.7	254.7	73%	0.708	360	2,997	8.324
7.18	249.4	249.4	249.4	71%	0.693	360	3,098	8.605
8.70	228.1	228.1	228.1	65%	0.634	360	3,433	9.537
9.26	220.3	220.3	220.3	63%	0.612	360	3,529	9.802
10.50	202.9	202.9	202.9	58%	0.564	360	3,686	10.239
11.40	190.3	190.3	190.3	54%	0.529	360	3,753	10.426
12.24	178.6	178.6	178.6	51%	0.496	360	3,781	10.503
14.20	151.1	151.1	151.1	-4%	0.420	360	3,712	10.312

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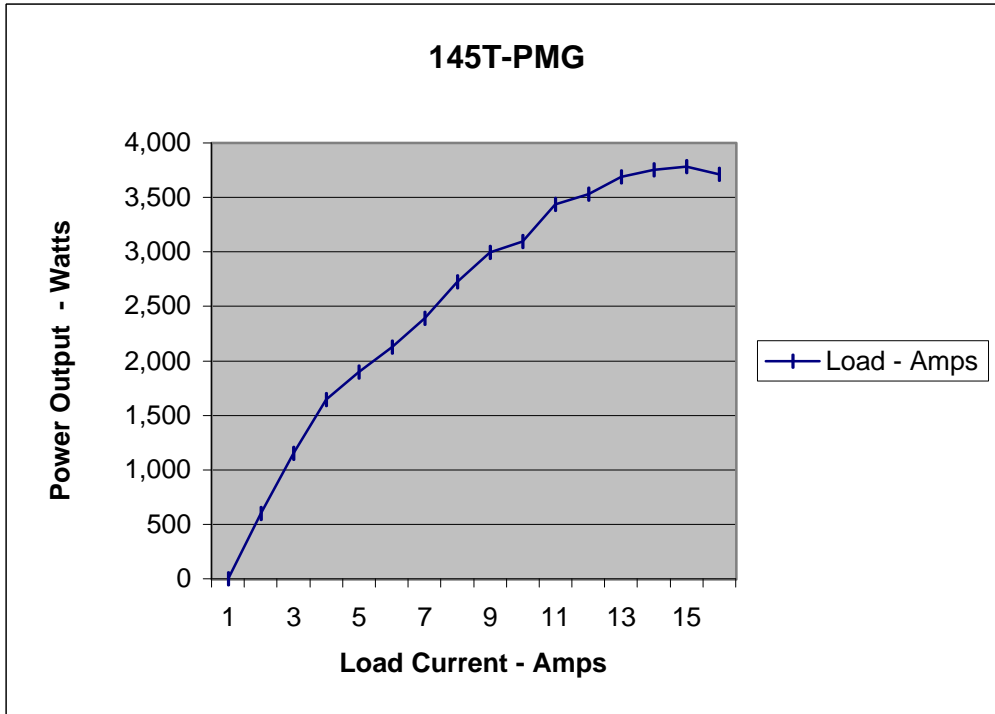
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0.00	291.6	291.6	291.6	-	0.972	300	0	0.000
1.03	277.2	277.2	277.2	95%	0.924	300	494	1.646
2.07	262.6	262.6	262.6	90%	0.875	300	940	3.135
3.10	248.2	248.2	248.2	85%	0.827	300	1,331	4.437
3.68	240.1	240.1	240.1	82%	0.800	300	1,528	5.095
4.23	232.4	232.4	232.4	80%	0.775	300	1,701	5.668
4.92	222.7	222.7	222.7	76%	0.742	300	1,896	6.319
5.89	209.1	209.1	209.1	72%	0.697	300	2,131	7.104
6.80	196.4	196.4	196.4	67%	0.655	300	2,310	7.701
7.18	191.1	191.1	191.1	66%	0.637	300	2,373	7.912
8.70	169.8	169.8	169.8	58%	0.566	300	2,556	8.519
9.26	162.0	162.0	162.0	56%	0.540	300	2,595	8.649
10.50	144.6	144.6	144.6	50%	0.482	300	2,627	8.756
11.40	132.0	132.0	132.0	45%	0.440	300	2,603	8.678
12.24	120.2	120.2	120.2	41%	0.401	300	2,546	8.487
14.20	92.8	92.8	92.8	-51%	0.309	300	2,280	7.599

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