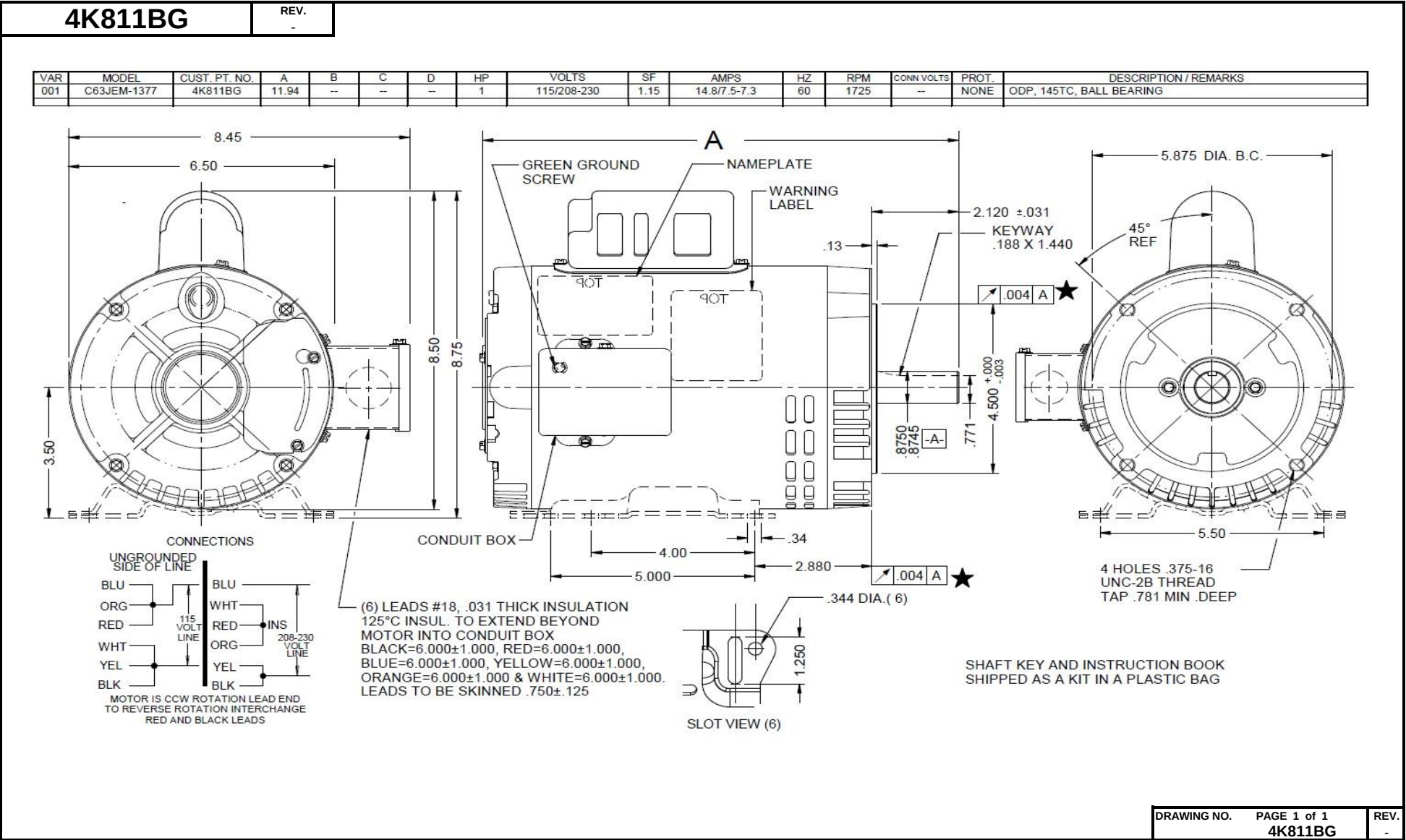


Dimensional Drawing



4K811BG	REV. -							
MOTOR PERFORMANCE								
HP:	1							
Poles:	4							
No. of Speeds:	1							
Volts:	115/208-230	115	208	230				
HZ:	60	60	60	60				
Service Factor:	1.15							
Efficiency:	@ Rated Load	68.9	69.6	68.4				
Power Factor:	@ Rated Load	70.1	75.5	70.0				
Amps:	@ No Load							
	@ Rated Load	13.5	6.8	6.8				
	@ Service Factor	14.7	7.7	7.4				
	@ Locked Rotor	70.5	32.3	36.6				
RPM:	@ Rated Load	1737	1722	1737				
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	117.8	97.4	120.4				
	Locked Rotor	165.3	124.2	148.7				
	Pull-Up	157.7	117.8	143.8				
	Rated Load	48.4	48.8	48.7				
	Service Factor	56	56	56				
Watts:	Rated Load	1083	1072	1098				
KVA Code:	K	K	H	K				
Temperature Rise:	@ Rated Load	50.8	49.8	49.7				
	@ Service Factor	59	67.6	61.3				
Thermal Protector:	Trip Temp (°C)	-	-	-				
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu				
	Run (Main)	Cu	Cu	Cu				
Capacitor(s):	Start (MFD / Volts)	590 mFd, 110V						
	No. of Start Capacitors							
	Run (MFD / Volts)	NA						
	No. of Run Capacitors							
LOW SPEED PERFORMANCE DATA:								
HP:								
Poles:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Service Factor							
	@ Locked Rotor							
Torques:	Bead Down							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

DRAWING NO. PAGE 1 of 1
4K811BG

REV.
-

Performance Data



4K811BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C063JEM1377 4K811BG
 Motor ID: 1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1.0
 Speed: 1725
 Phase: 1
 Protector: NONE

Test Conditions

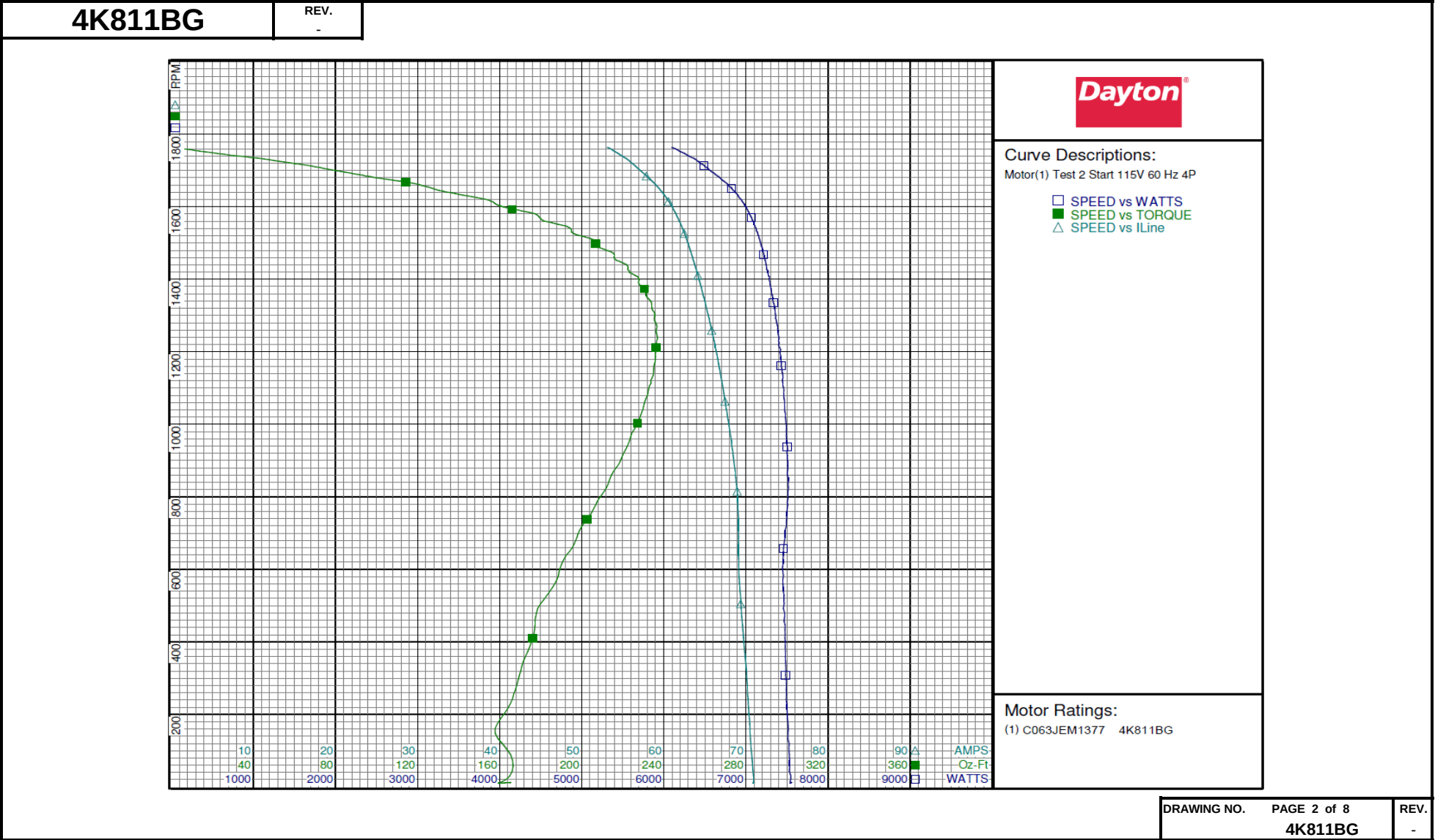
Test Type: Start Run Cap: 0
 Test Number: 2 Start Cap: 590 µFd
 Poles: 4 Environment:
 Volts: 115 Tested: 11/16/2005 10:32:18 AM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.04 Oz-Ft
 Speed Conn: Windage Torque: -0.94 Oz-Ft
 TestBoard: Amps Performance Fixture #1

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)	Cap
	115.0	98.1	126.2	70.96	61.98	28.61	7553	12	165.3	0.024	0.2	92.6	601.4
	115.0	98.1	125.5	70.86	61.82	28.45	7528	43	166.1	0.084	0.8	92.4	601.1
PUT OZ-FT	115.0	99.1	123.6	70.48	61.10	28.00	7515	160	157.7	0.300	3.0	92.7	601.2
	115.0	99.2	123.1	70.42	60.89	27.88	7505	187	160.3	0.357	3.6	92.7	600.8
	115.0	101.0	121.1	70.04	59.75	27.38	7487	321	170.3	0.651	6.5	92.9	599.6
	115.0	103.0	119.7	69.58	58.50	27.03	7476	446	177.2	0.940	9.4	93.4	599.2
	115.0	105.3	117.3	69.20	57.36	26.44	7450	561	187.0	1.248	12.5	93.6	597.7
	115.0	108.5	115.1	69.09	56.22	25.92	7463	669	196.3	1.562	15.6	93.9	597.2
	115.0	112.5	114.2	69.02	54.84	25.68	7503	768	205.8	1.880	18.7	94.5	596.5
	115.0	116.2	113.0	68.69	53.23	25.40	7504	860	214.5	2.197	21.8	95.0	596.1
	115.0	120.1	111.9	68.23	51.60	25.13	7495	947	222.8	2.512	25.0	95.5	595.5
	115.0	124.2	110.9	67.72	49.92	24.89	7484	1026	228.8	2.795	27.9	96.1	595.4
	115.0	128.6	110.1	67.19	48.23	24.71	7459	1099	232.7	3.045	30.5	96.5	595.3
	115.0	133.3	109.8	66.66	46.58	24.64	7430	1167	235.4	3.270	32.8	96.9	595.5
	115.0	138.0	109.9	66.12	44.86	24.66	7396	1230	236.5	3.462	34.9	97.3	595.4
	115.0	143.2	110.5	65.54	43.15	24.82	7369	1287	235.4	3.605	36.5	97.8	596.1
	115.0	148.5	111.5	64.98	41.48	25.09	7329	1339	233.5	3.724	37.9	98.1	597.2
	115.0	153.9	113.0	64.43	39.87	25.49	7289	1387	227.8	3.761	38.5	98.4	598.5
	115.0	159.2	115.2	63.86	38.30	26.02	7250	1431	222.6	3.792	39.0	98.7	599.4
	115.0	164.9	117.6	63.34	36.83	26.67	7217	1471	215.4	3.773	39.0	99.1	601.5
	115.0	170.5	120.5	62.78	35.39	27.42	7169	1509	205.7	3.694	38.4	99.3	603.6
	115.0	175.9	124.0	62.21	33.99	28.30	7114	1542	193.8	3.558	37.3	99.4	605.7
	115.0	181.2	127.5	61.60	32.61	29.28	7058	1573	178.9	3.352	35.4	99.6	608.9
	115.0	186.3	131.4	60.93	31.25	30.33	6990	1602	160.2	3.056	32.6	99.8	612.1
	115.0	191.0	135.5	60.20	29.90	31.42	6909	1628	146.2	2.833	30.6	99.8	615.3
	115.0	195.9	139.5	59.32	28.48	32.62	6825	1652	126.1	2.480	27.1	100.0	620.3
	115.0	199.7	143.5	58.37	27.08	33.73	6706	1674	106.5	2.122	23.6	99.9	623.6
	115.0	203.5	147.2	57.36	25.71	34.86	6589	1695	84.3	1.702	19.3	99.9	628.0
	115.0	207.5	151.0	56.36	24.48	35.99	6478	1715	64.6	1.319	15.2	99.9	632.1
	115.0	211.4	155.0	55.19	23.16	37.21	6340	1735	38.9	0.803	9.4	99.9	637.0
	115.0	214.6	158.5	53.93	21.96	38.31	6188	1753	13.8	0.287	3.5	99.8	641.0
	115.0	216.3	160.4	53.07	21.16	39.04	6094	1764	0.0	0.000	0.0	99.9	645.5

DRAWING NO. PAGE 1 of 8 REV.
 4K811BG -

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



Performance Data



4K811BG

REV.
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Dayton Manufacturing Company

Motor Description

Model: C063JEM1377 4K811BG
Motor ID: 1
Poles: 4
Volts: 115/208-230
Frequency: 60
HP: 1.0
Speed: 1725
Phase: 1
Protector: NONE

Test Conditions

Test Type: Run
Test Number: 3
Poles: 4
Volts: 115
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amps Performance Fixture #1
Run Cap: 0
Start Cap: 590 μ Fd
Environment:
Tested: 11/16/2005 10:23:28 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.17 Oz-Ft
Windage Torque: -1.08 Oz-Ft

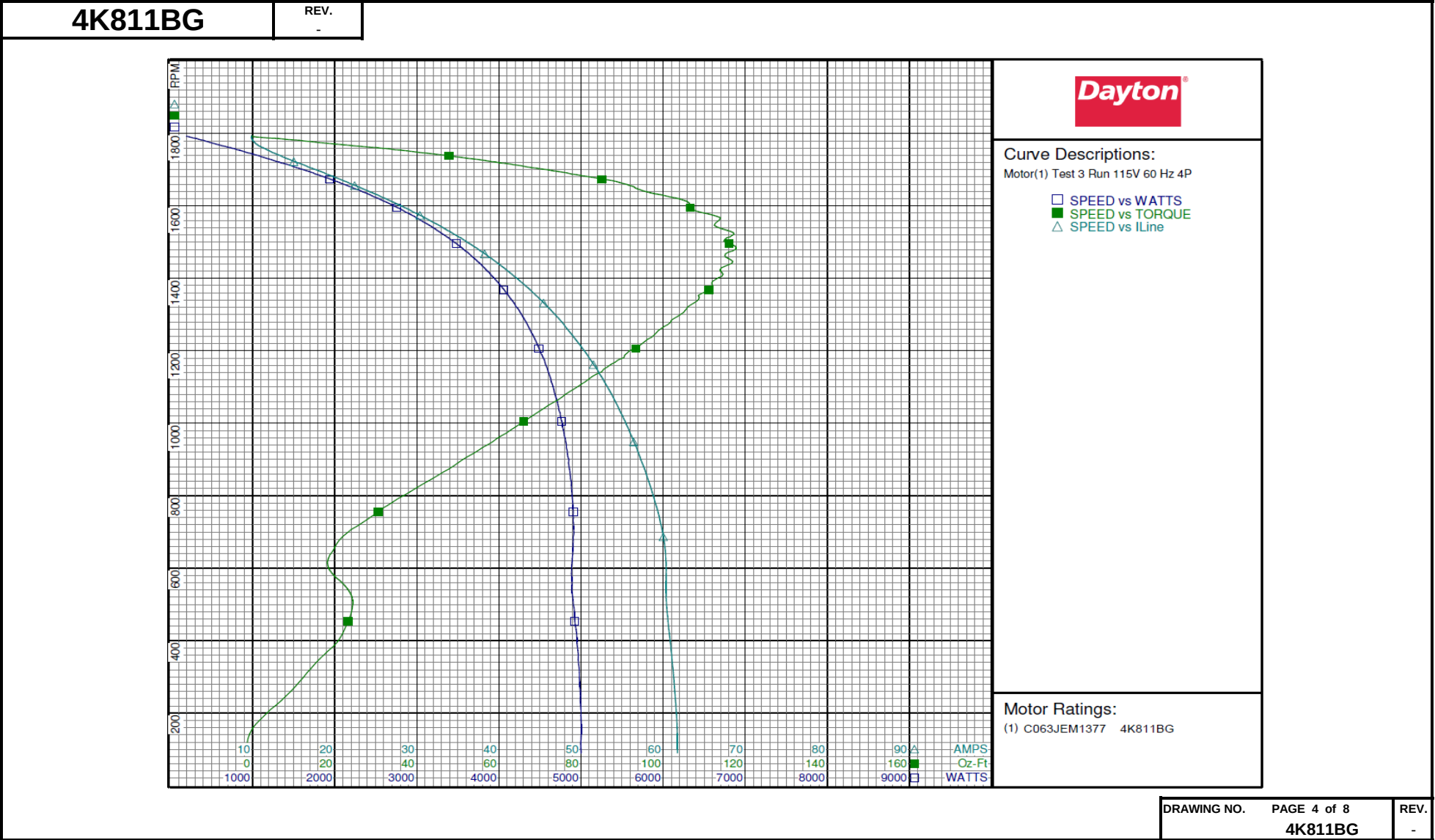
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	9.81	193	1792	0.00	0.000	0.0	17.1
	115.0	10.25	486	1774	16.25	0.343	52.6	41.3
	115.0	11.71	811	1754	34.64	0.723	66.6	60.2
48.7 OZ-FT	115.0	13.52	1090	1737	48.70	1.007	68.9	70.1
1 HP	115.0	13.47	1083	1737	48.35	1.000	68.9	69.9
	115.0	13.64	1105	1735	49.48	1.022	69.0	70.5
56 OZ-FT	115.0	14.68	1245	1726	56.00	1.151	69.0	73.7
1725 RPM	115.0	14.77	1256	1725	56.56	1.161	69.0	74.0
	115.0	15.95	1406	1715	62.75	1.281	68.0	76.7
	115.0	18.49	1708	1693	75.37	1.519	66.3	80.3
	115.0	21.08	1999	1669	87.82	1.745	65.1	82.5
	115.0	23.74	2287	1644	94.47	1.849	60.3	83.8
	115.0	26.52	2568	1616	104.78	2.016	58.5	84.2
	115.0	29.30	2839	1586	107.91	2.037	53.5	84.3
	115.0	32.08	3099	1553	112.85	2.086	50.2	84.0
	115.0	34.78	3340	1518	116.87	2.113	47.2	83.5
BDT OZ-FT	115.0	37.20	3546	1484	117.75	2.081	43.8	82.9
	115.0	37.48	3567	1480	117.74	2.075	43.4	82.8
	115.0	40.07	3784	1438	116.07	1.987	39.2	82.1
	115.0	42.58	3976	1392	112.06	1.857	34.8	81.2
	115.0	44.98	4145	1342	108.66	1.736	31.3	80.1
	115.0	47.25	4303	1290	102.70	1.577	27.3	79.2
	115.0	49.32	4438	1232	96.24	1.411	23.7	78.2
	115.0	51.35	4558	1168	88.34	1.229	20.1	77.2
	115.0	53.20	4658	1101	79.18	1.038	16.6	76.1
	115.0	54.87	4746	1027	69.10	0.845	13.3	75.2
	115.0	56.43	4813	949	58.45	0.660	10.2	74.2
	115.0	57.86	4865	865	46.40	0.478	7.3	73.1
	115.0	59.13	4900	774	32.97	0.304	4.6	72.1
	115.0	60.09	4904	677	21.10	0.170	2.6	71.0
	115.0	60.35	4888	574	20.26	0.139	2.1	70.4
	115.0	60.54	4920	466	23.75	0.132	2.0	70.7
	115.0	61.07	4965	348	16.22	0.067	1.0	70.7
	115.0	61.54	4994	222	5.71	0.015	0.2	70.6
	115.0	61.74	5002	90	-1.61	-0.002	0.0	70.5

DRAWING NO. PAGE 3 of 8
4K811BG

REV.
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



Performance Data



4K811BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JEM1377 4K811BG
Motor ID: 1
Poles: 4
Volts: 115/208-230
Frequency: 60
HP: 1.0
Speed: 1725
Phase: 1
Protector: NONE

Test Conditions

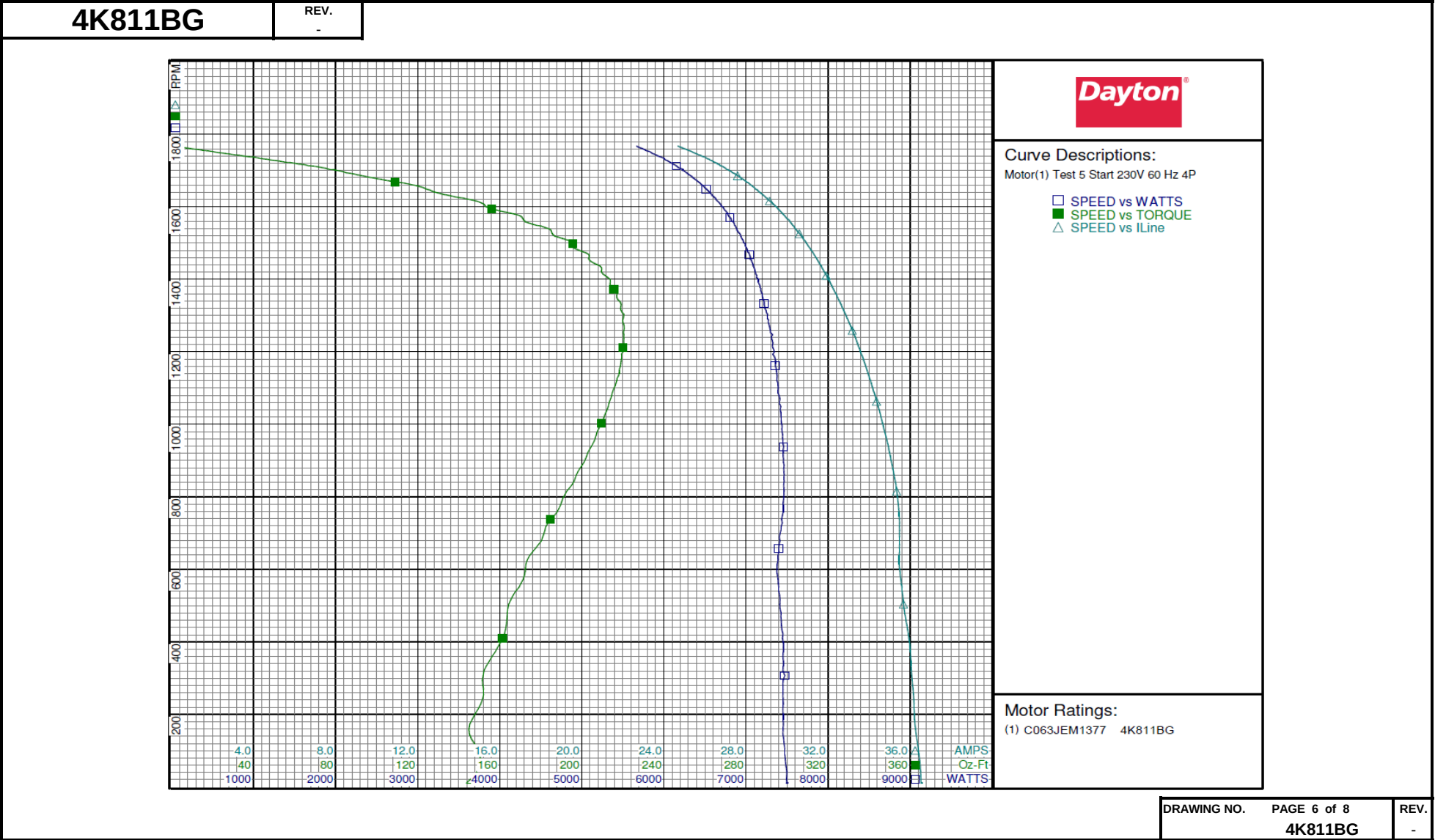
Test Type: Start Run Cap: 0
Test Number: 5 Start Cap: 590 µFd
Poles: 4 Environment:
Volts: 230 Tested: 11/16/2005 11:06:31 AM
Hz: 60 Tested By: Sharp, Gerald
Rotation: Gear Ratio: 1:1
Special Cond: Bearing Friction: -0.16 Oz-Ft
Speed Conn: Windage Torque: -1.19 Oz-Ft
TestBoard: Amtps Performance Fixture #1

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)	Cap
PUT OZ-FT	230.0	187.0	114.3	36.57	32.09	25.57	7508	11	148.7	0.020	0.2	89.3	593.4
	230.0	186.8	114.3	36.53	32.07	25.59	7492	11	143.8	0.018	0.2	89.2	593.8
	230.0	187.5	114.0	36.50	31.92	25.48	7496	42	149.0	0.074	0.7	89.3	593.2
	230.0	190.0	111.9	36.21	31.06	25.00	7452	186	146.6	0.325	3.3	89.5	592.6
	230.0	192.9	110.8	36.05	30.07	24.68	7449	320	152.3	0.581	5.8	89.8	591.0
	230.0	196.1	109.0	35.84	29.06	24.28	7431	446	163.2	0.866	8.7	90.1	590.9
	230.0	199.5	106.6	35.56	28.00	23.69	7393	561	170.3	1.138	11.5	90.4	589.3
	230.0	204.1	104.6	35.47	26.78	23.23	7404	669	178.9	1.424	14.3	90.7	589.1
	230.0	208.8	104.0	35.43	25.34	23.09	7451	767	188.7	1.722	17.2	91.4	589.0
	230.0	213.4	103.3	35.21	23.77	22.94	7464	860	197.4	2.022	20.2	92.2	589.2
	230.0	217.8	102.5	34.90	22.20	22.75	7449	947	205.4	2.315	23.2	92.8	589.0
	230.0	222.4	101.8	34.55	20.59	22.60	7424	1025	211.1	2.578	25.9	93.4	588.6
	230.0	227.2	101.5	34.17	18.93	22.51	7392	1100	215.7	2.823	28.5	94.1	588.6
	230.0	232.3	101.5	33.79	17.23	22.54	7360	1167	219.0	3.042	30.8	94.7	589.2
	230.0	237.3	101.8	33.38	15.50	22.63	7320	1229	220.3	3.225	32.9	95.3	589.7
	230.0	242.4	102.7	32.97	13.75	22.83	7274	1287	219.8	3.368	34.5	95.9	589.6
	230.0	247.4	103.9	32.56	12.02	23.13	7219	1339	218.4	3.481	36.0	96.4	590.5
	230.0	252.6	105.4	32.12	10.34	23.52	7159	1387	213.7	3.529	36.8	96.9	591.9
	230.0	257.7	107.4	31.70	8.71	23.99	7098	1431	209.6	3.571	37.5	97.4	592.5
	230.0	262.9	109.7	31.27	7.21	24.57	7035	1472	202.2	3.543	37.6	97.8	594.2
	230.0	267.7	112.4	30.82	5.93	25.25	6961	1508	192.7	3.460	37.1	98.2	595.9
	230.0	272.5	115.4	30.36	5.02	26.00	6877	1542	182.1	3.343	36.3	98.5	597.9
	230.0	276.7	118.6	29.89	4.66	26.82	6787	1574	170.1	3.188	35.0	98.7	599.7
	230.0	281.1	122.0	29.43	4.95	27.70	6698	1602	152.8	2.914	32.5	99.0	602.2
	230.0	285.4	125.5	28.92	5.71	28.65	6609	1628	137.7	2.667	30.1	99.4	605.6
	230.0	289.2	129.1	28.40	6.81	29.60	6496	1653	122.7	2.414	27.7	99.4	608.3
	230.0	292.9	132.8	27.87	8.05	30.60	6380	1675	102.3	2.040	23.8	99.6	611.0
	230.0	296.2	136.4	27.29	9.38	31.60	6260	1696	83.8	1.693	20.2	99.7	614.7
	230.0	299.2	140.0	26.69	10.78	32.64	6126	1716	64.5	1.318	16.1	99.8	618.2
	230.0	301.9	143.8	26.01	12.21	33.67	5968	1736	40.6	0.839	10.5	99.8	621.2
	230.0	304.2	147.2	25.25	13.75	34.70	5790	1754	17.4	0.363	4.7	99.7	625.3
	230.0	305.7	149.7	24.67	14.81	35.42	5664	1767	0.0	0.000	0.0	99.8	627.8

DRAWING NO. PAGE 5 of 8 REV.
4K811BG -

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



Performance Data



4K811BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JEM1377 4K811BG
Motor ID: 1
Poles: 4
Volts: 115/208-230
Frequency: 60
HP: 1.0
Speed: 1725
Phase: 1
Protector: NONE

Test Conditions

Test Type: Run
Test Number: 6
Poles: 4
Volts: 230
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #1
Run Cap: 0
Start Cap: 590 µFd
Environment:
Tested: 11/16/2005 11:05:39 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.17 Oz-Ft
Windage Torque: -1.27 Oz-Ft

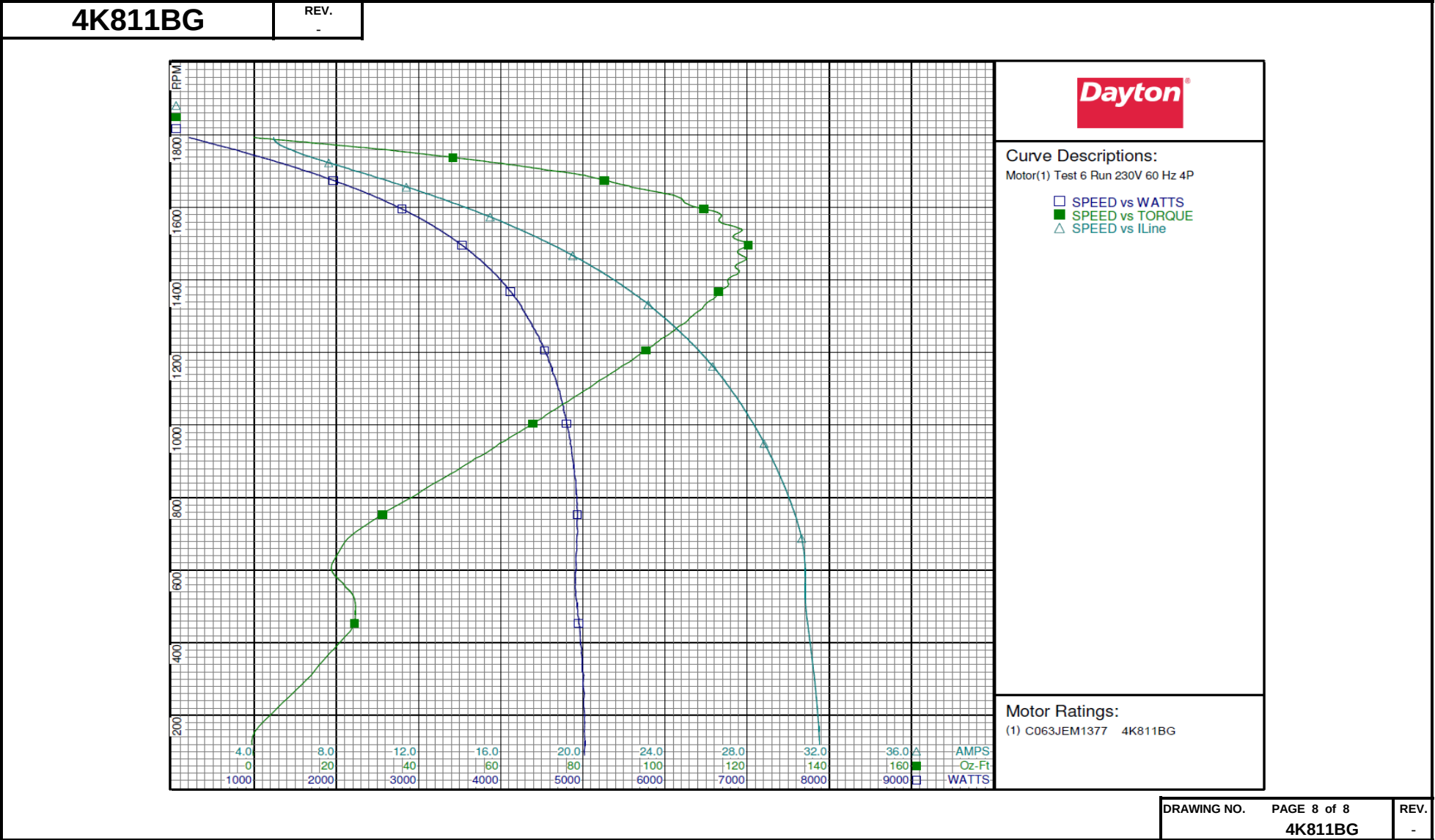
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.94	208	1793	0.00	0.000	0.0	18.3
	230.0	5.22	521	1774	18.26	0.386	55.2	43.4
	230.0	5.94	822	1755	34.88	0.729	66.1	60.1
1 HP	230.0	6.79	1090	1738	48.34	1.000	68.4	69.8
48.7 OZ-FT	230.0	6.82	1098	1737	48.70	1.007	68.4	70.0
	230.0	6.91	1122	1736	49.78	1.028	68.4	70.6
56 OZ-FT	230.0	7.40	1251	1727	56.00	1.152	68.7	73.5
1725 RPM	230.0	7.49	1276	1725	57.21	1.175	68.7	74.1
	230.0	8.12	1432	1715	64.31	1.313	68.4	76.7
	230.0	9.39	1732	1693	77.87	1.570	67.6	80.2
	230.0	10.71	2024	1669	87.30	1.735	63.9	82.2
	230.0	12.09	2323	1644	97.54	1.909	61.3	83.6
	230.0	13.51	2605	1616	104.57	2.012	57.6	83.9
	230.0	14.91	2876	1587	112.70	2.129	55.2	83.9
	230.0	16.33	3141	1554	114.63	2.120	50.4	83.6
	230.0	17.73	3390	1518	116.50	2.106	46.3	83.1
BDT OZ-FT	230.0	18.56	3530	1496	120.36	2.143	45.3	82.7
	230.0	19.10	3619	1480	117.70	2.074	42.8	82.4
	230.0	20.43	3832	1438	117.09	2.004	39.0	81.5
	230.0	21.72	4028	1392	115.33	1.911	35.4	80.6
	230.0	22.95	4205	1343	110.98	1.775	31.5	79.7
	230.0	24.10	4347	1289	105.60	1.621	27.8	78.4
	230.0	25.20	4483	1230	98.37	1.441	24.0	77.3
	230.0	26.23	4604	1168	90.49	1.258	20.4	76.3
	230.0	27.18	4701	1100	81.19	1.063	16.9	75.2
	230.0	28.04	4784	1027	70.98	0.868	13.5	74.2
	230.0	28.83	4845	949	59.69	0.675	10.4	73.1
	230.0	29.56	4896	864	47.61	0.490	7.5	72.0
	230.0	30.21	4928	773	33.82	0.311	4.7	70.9
	230.0	30.69	4924	677	22.02	0.178	2.7	69.7
	230.0	30.83	4912	574	20.58	0.141	2.1	69.3
	230.0	30.91	4951	466	24.55	0.136	2.1	69.6
	230.0	31.18	4990	347	16.55	0.068	1.0	69.6
	230.0	31.41	5014	221	5.76	0.015	0.2	69.4
	230.0	31.51	5020	89	-0.32	0.000	0.0	69.3

DRAWING NO. PAGE 7 of 8
4K811BG

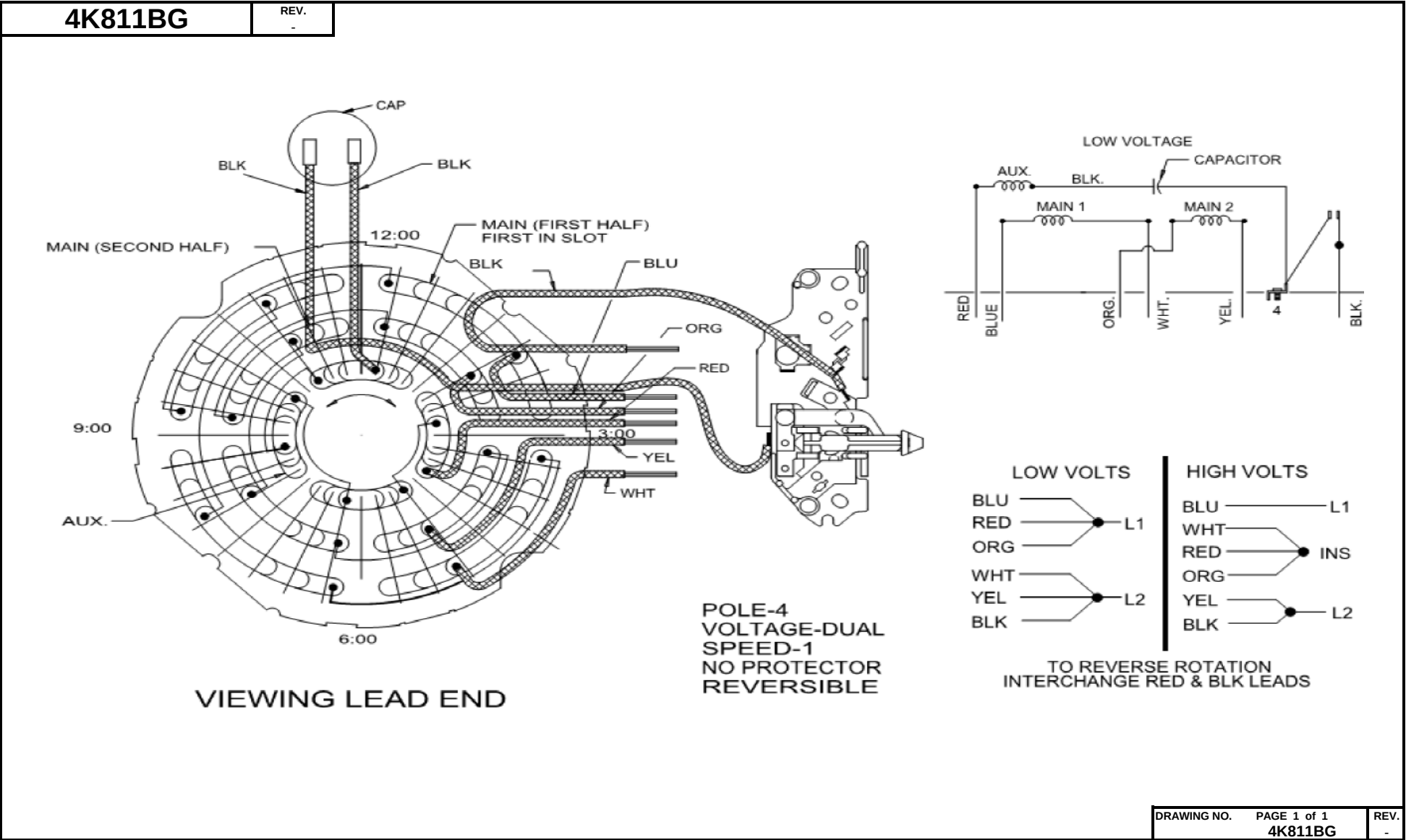
REV.
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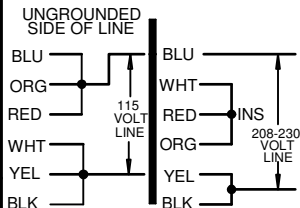
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



Wiring Diagram



Dayton®**INDUSTRIAL MOTOR****HP:** 1
VOLTS: 115/208-230**[BAR CODE]****Part No** 4K811BG**AMPS:** 14.8/7.5-7.3**RPM:** 1725**DUTY:** CONT**SF:** 1.15**KVA CODE:** K**ENCL:** ODP**THERMALLY PROTECTED:** NONE**MFG. NO.** **PROT. CODE:** **AVG. F.L.
EFF.****MTR REF:** C63JEM-1377**S.F. AT 208V IS 1.00****PH:** 1**HZ:** 60**FR:** 145TC**INS CL:** B**AMB:** 40 °C**SFA:** 15.3/7.5-7.6**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS****MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS****RU**®
E47479**SA**®
258501**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**