

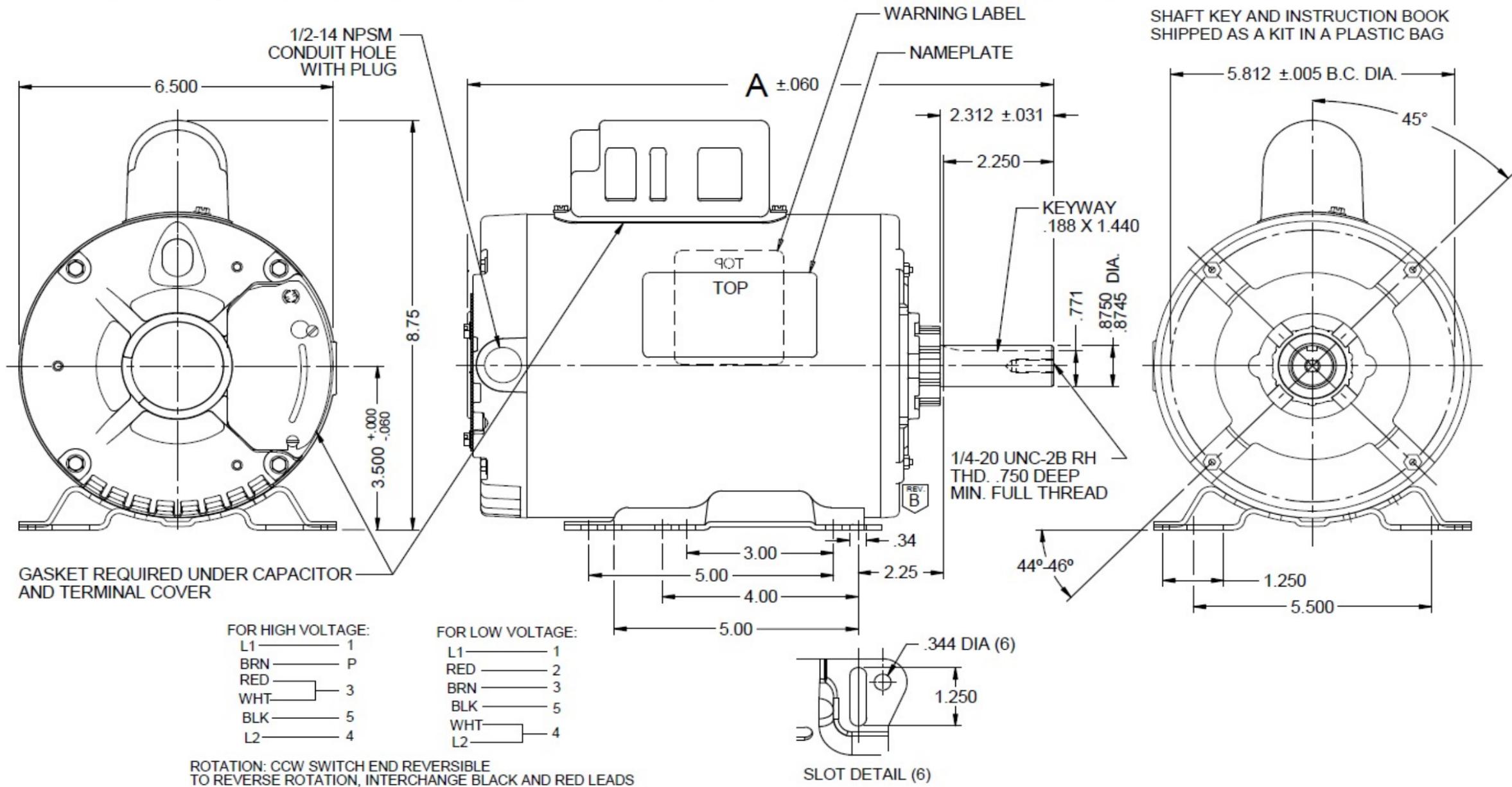
Dimensional Drawing



4K061BG

REV.
-

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	C63KZJCB-1349	4K061BG	13.75	----	----	----	2	115/230	1	22.2/11.1	60	3450	---	AUTO	143TZ, TEAO, GREEN



DRAWING NO.	PAGE 1 of 1	REV.
	4K061BG	-

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

4K061BG

REV.

-

MOTOR PERFORMANCE

HP:	2							
Poles:	2							
No. of Speeds:	1							
Volts:	115/230	230	115					
HZ:	60	60	60					
Service Factor:	1							
Efficiency:	@ Rated Load	76.1	76.2					
Power Factor:	@ Rated Load	84.9	85.5					
Amps:	@ No Load							
	@ Rated Load	10.1	20					
	@ Service Factor	N/A	N/A					
	@ Locked Rotor	59	110					
RPM:	@ Rated Load	3489	3489					
Ambient (°C):	50							
Altitude (FASL):								
Torques:	Breakdown	119.1	116.2					
	Locked Rotor	81.5	78.5					
	Pull-Up	57.6	56.7					
	Rated Load	48.2	48.2					
	Service Factor	N/A	N/A					
Watts:	Rated Load	1959	1958					
KVA Code:	H	H	H					
Temperature Rise:	@ Rated Load	TEAO	TEAO					
	@ Service Factor							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	AI	AI					
	Run (Main)	AL	AL					
Capacitor(s):	Start (MFD / Volts)	649mf 125v						
	No. of Start Capacitors							
	Run (MFD / Volts)	N/A						
	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 REV.
4K061BG -

Performance Data



4K061BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063KZJCB1349012E 4K061BG
 Motor ID: 1 of 3
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector: CEJ49CX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 3 Start Cap: 649 µF
 Poles: 2 Environment:
 Volts: 115 Tested: 11/22/2005 4:56:35 PM
 Hz: 60 Tested By: Taylor, Melvin
 Rotation: Gear Ratio: 1:1
 Special Cond: 2-LINE Bearing Friction: -0.48 Oz-Ft
 Speed Conn: Windage Torque: -3.26 Oz-Ft
 TestBoard: Amtps Performance Fixture #1

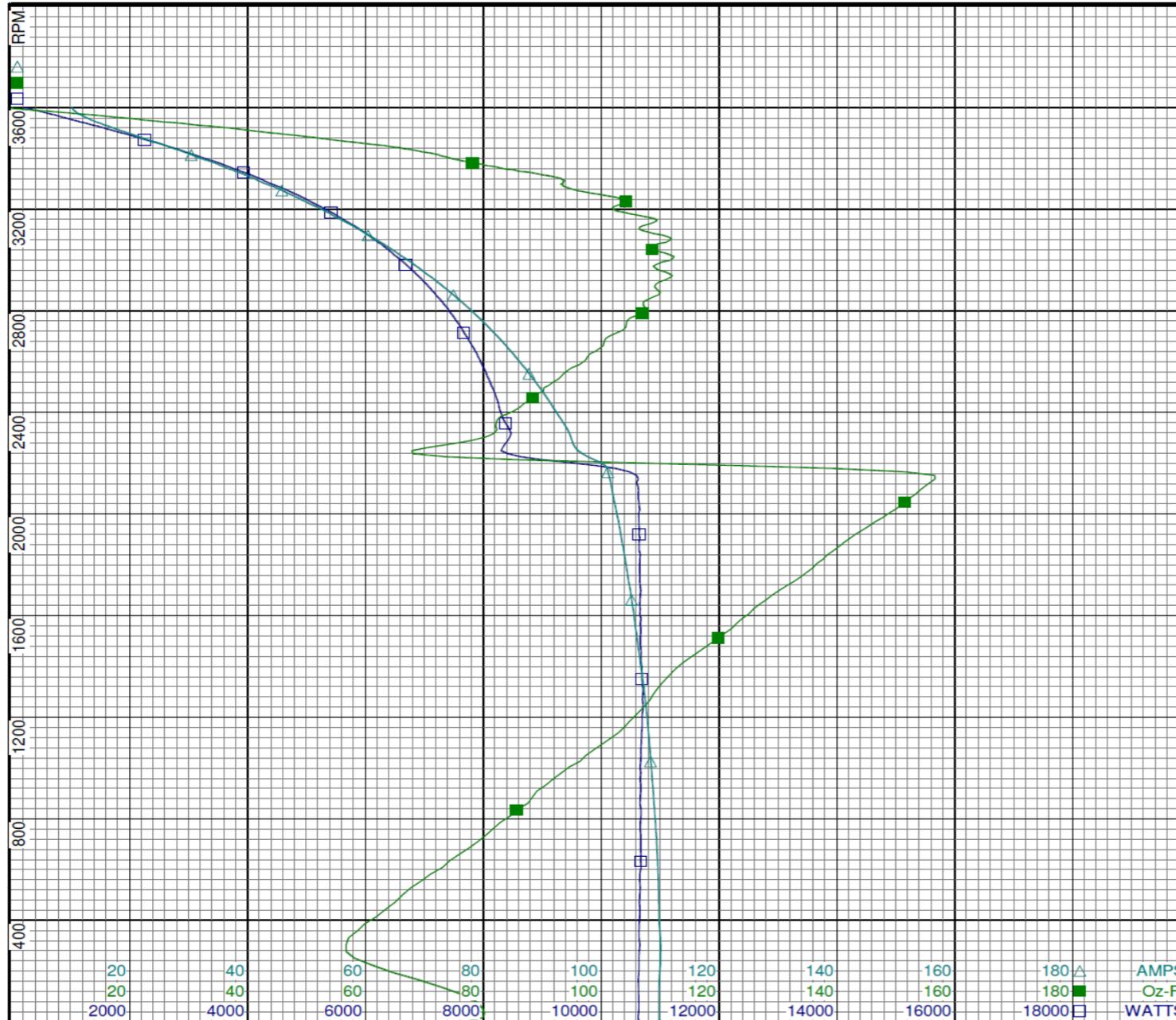
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	109.99	10635	6	78.46	0.005	0.0	84.1
	115.0	109.78	10638	77	78.99	0.073	0.5	84.3
PUT OZ-FT	115.0	110.06	10657	304	56.72	0.205	1.4	84.2
	115.0	109.95	10642	358	58.65	0.250	1.8	84.2
	115.0	109.56	10668	634	74.28	0.560	3.9	84.7
	115.0	108.90	10667	885	88.34	0.930	6.5	85.2
	115.0	108.11	10682	1117	101.63	1.352	9.4	85.9
	115.0	107.14	10695	1332	110.26	1.748	12.2	86.8
	115.0	105.98	10669	1531	121.04	2.206	15.4	87.5
	115.0	104.81	10661	1717	131.47	2.687	18.8	88.4
	115.0	103.55	10645	1889	141.25	3.176	22.3	89.4
	115.0	102.22	10639	2047	151.47	3.691	25.9	90.5
	115.0	100.60	9864	2191	121.21	3.162	23.9	85.3
	115.0	94.60	8473	2318	81.83	2.258	19.9	77.9
	115.0	91.11	8240	2447	87.93	2.561	23.2	78.6
	115.0	87.41	8032	2564	94.28	2.878	26.7	79.9
	115.0	83.47	7785	2672	100.44	3.195	30.6	81.1
	115.0	79.32	7509	2772	104.90	3.461	34.4	82.3
	115.0	74.97	7197	2862	109.64	3.736	38.7	83.5
	115.0	70.40	6860	2945	111.65	3.915	42.6	84.7
	115.0	65.77	6484	3021	111.60	4.014	46.2	85.7
	115.0	61.02	6087	3091	111.28	4.095	50.2	86.7
	115.0	56.30	5664	3154	109.47	4.110	54.1	87.5
	115.0	51.53	5233	3210	102.25	3.908	55.7	88.3
	115.0	46.80	4779	3263	98.24	3.816	59.6	88.8
	115.0	41.88	4285	3311	93.80	3.697	64.4	89.0
	115.0	36.85	3775	3358	83.65	3.344	66.1	89.1
	115.0	31.85	3241	3403	74.14	3.003	69.1	88.5
	115.0	27.05	2726	3442	65.73	2.693	73.7	87.6
	115.0	21.96	2136	3483	51.13	2.120	74.0	84.6
	115.0	17.18	1563	3520	36.78	1.541	73.5	79.1
	115.0	13.12	976	3556	20.92	0.885	67.6	64.7
	115.0	10.40	337	3593	1.84	0.079	17.4	28.2
	115.0	10.22	213	3600	0.00	0.000	0.0	18.2

DRAWING NO. PAGE 1 of 8 REV.
4K061BG -

Performance Data



4K061BG REV. -



Curve Descriptions:
 Motor(1) Test 3 Start 115V 60 Hz 2P
 2-LINE
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

Motor Ratings:
 (1) C063KZJCB1349012E 4K061BG

DRAWING NO. PAGE 2 of 8 REV.
 4K061BG -

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

Performance Data



4K061BG	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063KZJCB1349012E 4K061BG
Motor ID: 1 of 3
Poles: 2
Volts: 115/230
Frequency: 60
HP: 2
Speed: 3450
Phase: 1
Protector: CEJ49CX

Test Conditions

Test Type: Run
Test Number: 9
Poles: 2
Volts: 115
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Aamps Performance Fixture #1
Run Cap: 0
Start Cap: 649 µFd
Environment:
Tested: 11/22/2005 5:21:31 PM
Tested By: Taylor, Melvin
Gear Ratio: 1:1
Bearing Friction: -0.30 Oz-Ft
Windage Torque: -3.07 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	9.27	213	3583	0.00	0.000	0.0	20.0
12.2 OZ-FT	115.0	10.61	657	3561	12.20	0.517	58.7	53.8
	115.0	12.26	952	3545	20.71	0.874	68.5	67.5
24.3 OZ-FT	115.0	13.05	1074	3539	24.30	1.024	71.1	71.6
36.4 OZ-FT	115.0	16.27	1513	3515	36.40	1.523	75.1	80.9
	115.0	17.62	1681	3507	40.93	1.709	75.9	83.0
48.6 OZ-FT	115.0	20.10	1977	3488	48.60	2.018	76.2	85.5
2 HP	115.0	19.95	1958	3489	48.15	2.000	76.2	85.4
55.9 OZ-FT	115.0	22.72	2282	3470	55.90	2.309	75.5	87.3
	115.0	23.32	2351	3466	57.73	2.382	75.6	87.7
60.8 OZ-FT	115.0	24.49	2478	3457	60.80	2.502	75.3	88.0
3450 RPM	115.0	25.50	2591	3450	63.35	2.602	74.9	88.4
	115.0	28.78	2950	3425	70.69	2.883	72.9	89.1
	115.0	34.31	3542	3382	81.14	3.266	68.8	89.8
	115.0	39.98	4126	3334	93.59	3.715	67.2	89.7
	115.0	45.38	4662	3285	99.24	3.881	62.1	89.3
	115.0	50.53	5175	3231	108.41	4.170	60.1	89.1
	115.0	55.79	5655	3171	108.28	4.088	53.9	88.1
	115.0	60.98	6118	3107	113.33	4.192	51.1	87.2
BDT OZ-FT	115.0	65.11	6469	3049	116.24	4.219	48.7	86.4
	115.0	65.69	6511	3040	115.87	4.194	48.0	86.2
	115.0	70.30	6883	2968	115.01	4.063	44.0	85.1
	115.0	74.90	7224	2886	112.09	3.850	39.8	83.9
	115.0	79.28	7530	2797	106.75	3.554	35.2	82.6
	115.0	83.32	7801	2701	102.74	3.304	31.6	81.4
	115.0	87.19	8039	2597	96.57	2.986	27.7	80.2
	115.0	90.73	8239	2485	89.84	2.657	24.1	79.0
	115.0	93.99	8400	2361	82.36	2.315	20.6	77.7
	115.0	96.90	8513	2229	74.20	1.969	17.3	76.4
	115.0	99.60	8626	2086	65.79	1.634	14.1	75.3
	115.0	102.02	8719	1933	56.62	1.303	11.1	74.3
	115.0	104.25	8791	1767	47.49	0.999	8.5	73.3
	115.0	106.12	8849	1589	38.34	0.725	6.1	72.5
	115.0	107.77	8899	1399	28.47	0.474	4.0	71.8
	115.0	109.15	8923	1195	18.38	0.262	2.2	71.1
	115.0	110.32	8940	976	6.96	0.081	0.7	70.5
	115.0	111.32	8983	738	-5.58	-0.049	0.0	70.2
	115.0	111.69	8959	493	-17.09	-0.100	0.0	69.8
	115.0	111.62	8933	236	-19.77	-0.056	0.0	69.6

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	4K061BG	-

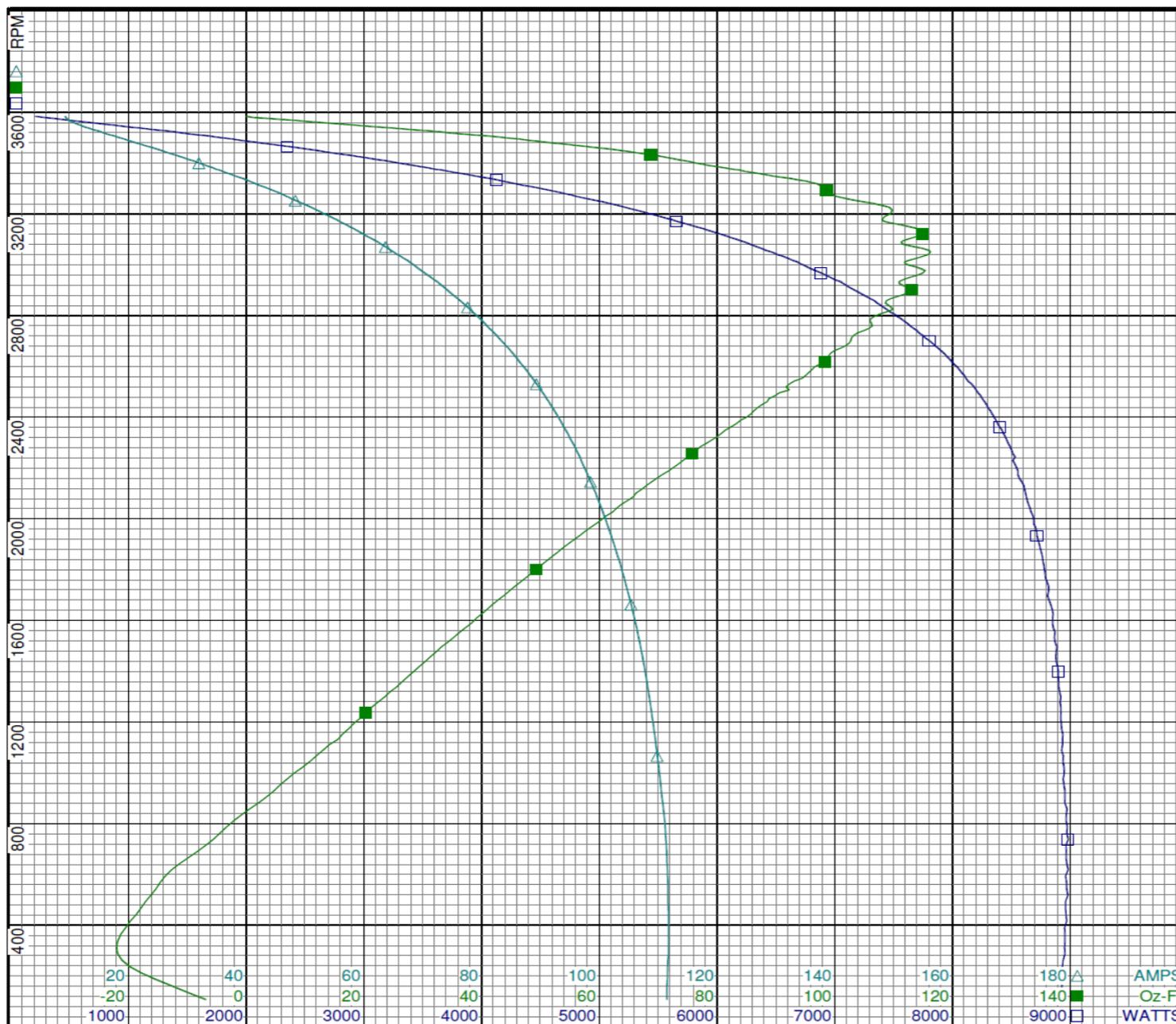
Performance Data



4K061BG

REV.

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Curve Descriptions:

Motor(1) Test 9 Run 115V 60 Hz 2P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs ILine

Motor Ratings:

(1) C063KZJCB1349012E 4K061BG

DRAWING NO.	PAGE 4 of 8	REV.
4K061BG		-

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

Performance Data



4K061BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063KZJCB1349012E 4K061BG
 Motor ID: 1 of 3
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector: CEJ49CX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 4 Start Cap: 649 µF
 Poles: 2 Environment:
 Volts: 230 Tested: 11/22/2005 6:55:33 PM
 Hz: 60 Tested By: Taylor, Melvin
 Rotation:
 Special Cond: 2-LINE Gear Ratio: 1:1
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Bearing Friction: -0.28 Oz-Ft
 Windage Torque: -3.48 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	58.07	11021	5	81.54	0.005	0.0	82.5
	230.0	57.88	10990	77	80.37	0.074	0.5	82.6
PUT OZ-FT	230.0	57.90	10979	302	57.62	0.207	1.4	82.4
	230.0	57.81	10959	357	59.10	0.251	1.7	82.4
	230.0	57.59	10983	633	75.87	0.572	3.9	82.9
	230.0	57.26	10996	885	90.30	0.951	6.5	83.5
	230.0	56.80	11008	1117	103.98	1.383	9.4	84.3
	230.0	56.27	11030	1332	113.24	1.796	12.1	85.2
	230.0	55.60	11016	1531	123.48	2.251	15.2	86.1
	230.0	54.97	11012	1717	134.20	2.742	18.6	87.1
	230.0	54.28	11000	1888	144.28	3.243	22.0	88.1
	230.0	53.53	10984	2047	154.40	3.762	25.5	89.2
	230.0	50.76	9198	2187	90.95	2.367	19.2	78.8
	230.0	47.81	8448	2319	83.98	2.318	20.5	76.8
	230.0	46.01	8260	2447	90.97	2.650	23.9	78.1
	230.0	44.08	8040	2565	98.05	2.994	27.8	79.3
	230.0	42.05	7786	2672	103.43	3.290	31.5	80.5
	230.0	39.92	7515	2771	109.02	3.597	35.7	81.8
	230.0	37.71	7201	2861	110.80	3.774	39.1	83.0
	230.0	35.40	6857	2946	112.81	3.956	43.0	84.2
	230.0	33.05	6473	3022	113.48	4.083	47.1	85.1
	230.0	30.59	6067	3091	111.31	4.096	50.4	86.2
	230.0	28.24	5660	3152	108.20	4.060	53.5	87.1
	230.0	25.82	5213	3210	107.38	4.103	58.7	87.8
	230.0	23.33	4742	3263	101.71	3.951	62.2	88.4
	230.0	20.79	4234	3313	92.21	3.637	64.1	88.5
	230.0	18.36	3738	3359	85.92	3.436	68.6	88.5
	230.0	15.85	3215	3402	75.44	3.055	70.9	88.2
	230.0	13.51	2700	3444	63.45	2.601	71.9	86.9
	230.0	11.00	2125	3482	51.10	2.119	74.4	84.0
	230.0	8.66	1555	3518	37.08	1.553	74.5	78.1
	230.0	6.56	962	3555	20.68	0.875	67.8	63.7
	230.0	5.16	360	3592	2.82	0.121	25.0	30.3
	230.0	5.05	243	3599	0.00	0.000	0.0	20.9

DRAWING NO. PAGE 5 of 8 REV.
4K061BG -

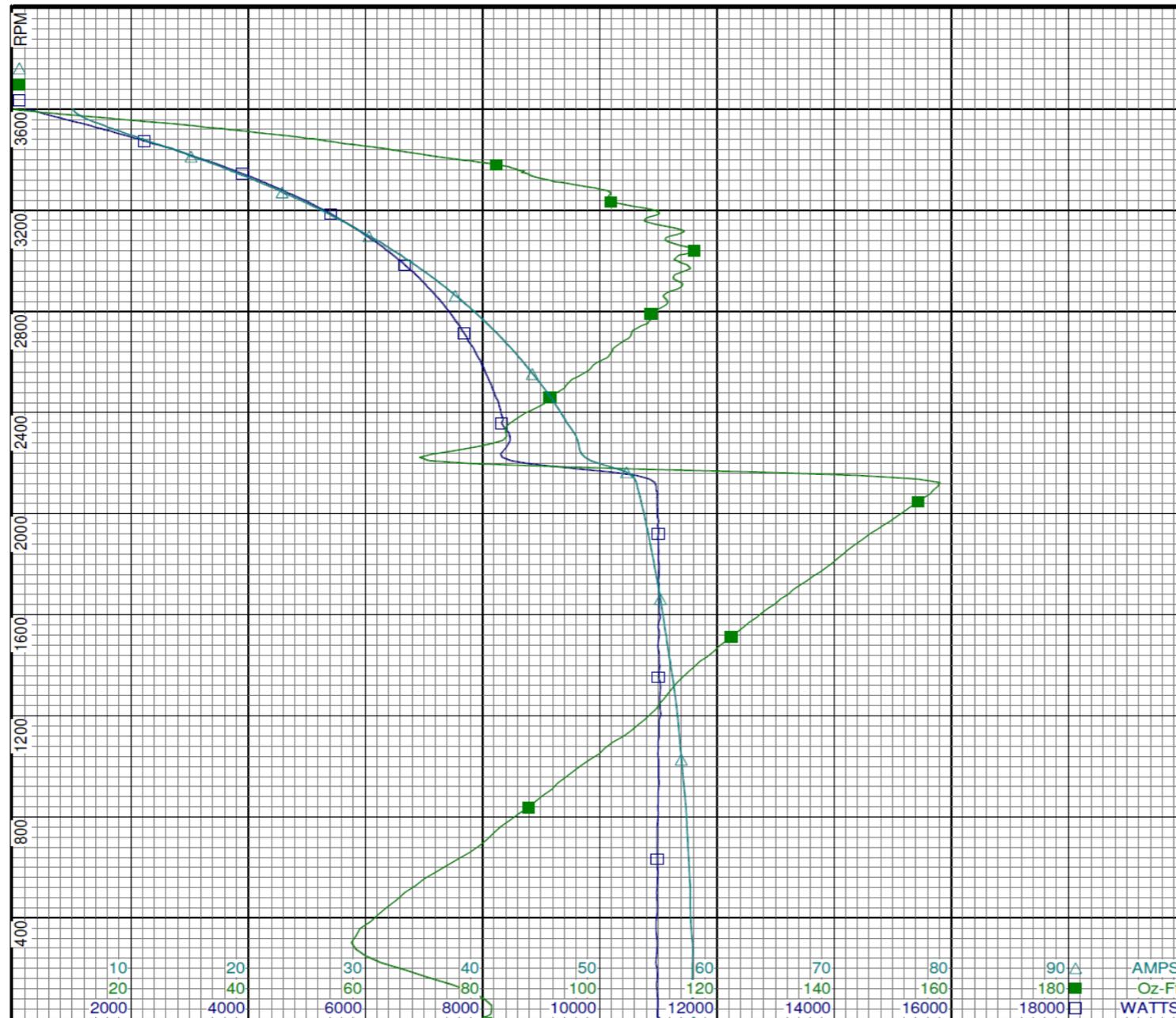
Performance Data



4K061BG

REV.

-



Curve Descriptions:

Motor(1) Test 4 Start 230V 60 Hz 2P
2-LINE

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs ILine

Motor Ratings:

(1) C063KZJCB1349012E 4K061BG

DRAWING NO.	PAGE 6 of 8	REV.
4K061BG		-

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

Performance Data



4K061BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C063KZJCB1349012E 4K061BG
 Motor ID: 1 of 3
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector: CEJ49CX

Test Conditions

Test Type: Run
 Test Number: 10
 Poles: 2
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Aamps Performance Fixture #1
 Run Cap: 0
 Start Cap: 649 µFd
 Environment:
 Tested: 11/22/2005 6:03:19 PM
 Tested By: Taylor, Melvin
 Gear Ratio: 1:1
 Bearing Friction: -0.25 Oz-Ft
 Windage Torque: -2.90 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.66	217	3583	0.00	0.000	0.0	20.2
12.2 OZ-FT	230.0	5.31	628	3560	12.20	0.517	61.2	51.4
	230.0	6.21	964	3542	21.74	0.917	70.9	67.5
24.3 OZ-FT	230.0	6.53	1051	3539	24.30	1.024	72.6	70.0
36.4 OZ-FT	230.0	8.14	1495	3514	36.40	1.523	76.0	79.9
	230.0	8.81	1664	3506	41.11	1.716	76.9	82.1
2 HP	230.0	10.05	1959	3489	48.16	2.000	76.2	84.8
48.6 OZ-FT	230.0	10.13	1978	3488	48.60	2.018	76.1	84.9
	230.0	11.43	2284	3466	55.56	2.293	74.9	86.9
55.9 OZ-FT	230.0	11.50	2298	3466	55.90	2.306	74.9	86.9
60.8 OZ-FT	230.0	12.47	2515	3452	60.80	2.498	74.1	87.7
3450 RPM	230.0	12.60	2544	3450	61.43	2.523	74.0	87.8
	230.0	14.30	2915	3425	69.66	2.840	72.7	88.6
	230.0	17.09	3511	3381	83.67	3.367	71.5	89.3
	230.0	19.77	4072	3334	92.24	3.661	67.1	89.6
	230.0	22.45	4600	3285	100.95	3.948	64.0	89.1
	230.0	25.24	5157	3229	107.25	4.123	59.6	88.8
	230.0	27.75	5618	3174	114.15	4.313	57.3	88.0
	230.0	30.31	6064	3112	114.09	4.227	52.0	87.0
	230.0	32.96	6504	3041	114.75	4.154	47.7	85.8
BDT OZ-FT	230.0	34.37	6747	2997	119.09	4.249	47.0	85.3
	230.0	35.41	6909	2964	115.18	4.064	43.9	84.8
	230.0	37.71	7249	2885	113.32	3.891	40.0	83.6
	230.0	39.92	7553	2797	111.55	3.714	36.7	82.3
	230.0	42.02	7827	2702	107.41	3.455	32.9	81.0
	230.0	43.99	8067	2597	101.18	3.129	28.9	79.7
	230.0	45.83	8272	2484	93.54	2.766	24.9	78.5
	230.0	47.48	8414	2361	86.20	2.423	21.5	77.1
	230.0	49.02	8554	2229	78.25	2.076	18.1	75.9
	230.0	50.43	8654	2087	69.24	1.720	14.8	74.6
	230.0	51.71	8748	1932	60.08	1.382	11.8	73.6
	230.0	52.82	8823	1767	50.63	1.065	9.0	72.6
	230.0	53.82	8888	1589	40.72	0.770	6.5	71.8
	230.0	54.65	8931	1398	30.55	0.509	4.2	71.0
	230.0	55.38	8964	1194	20.03	0.285	2.4	70.4
	230.0	56.00	8973	974	8.08	0.094	0.8	69.7
	230.0	56.51	8996	740	-4.84	-0.043	0.0	69.2
	230.0	56.73	8981	492	-16.79	-0.098	0.0	68.8
	230.0	56.67	8958	238	-20.06	-0.057	0.0	68.7

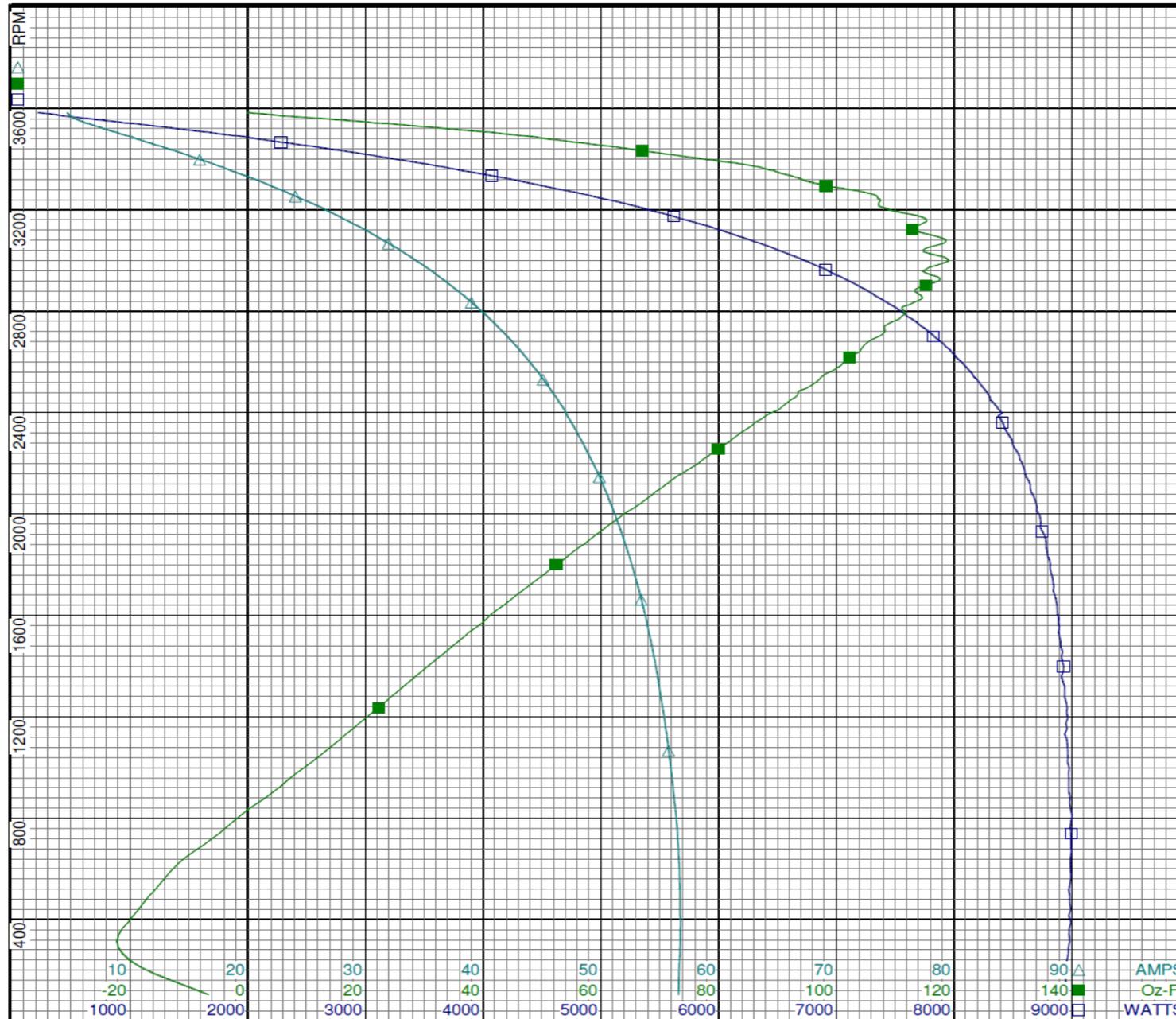
DRAWING NO.	PAGE 7 of 8	REV.
	4K061BG	-

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

Performance Data



4K061BG REV. -



Curve Descriptions:
Motor(1) Test 10 Run 230V 60 Hz 2P

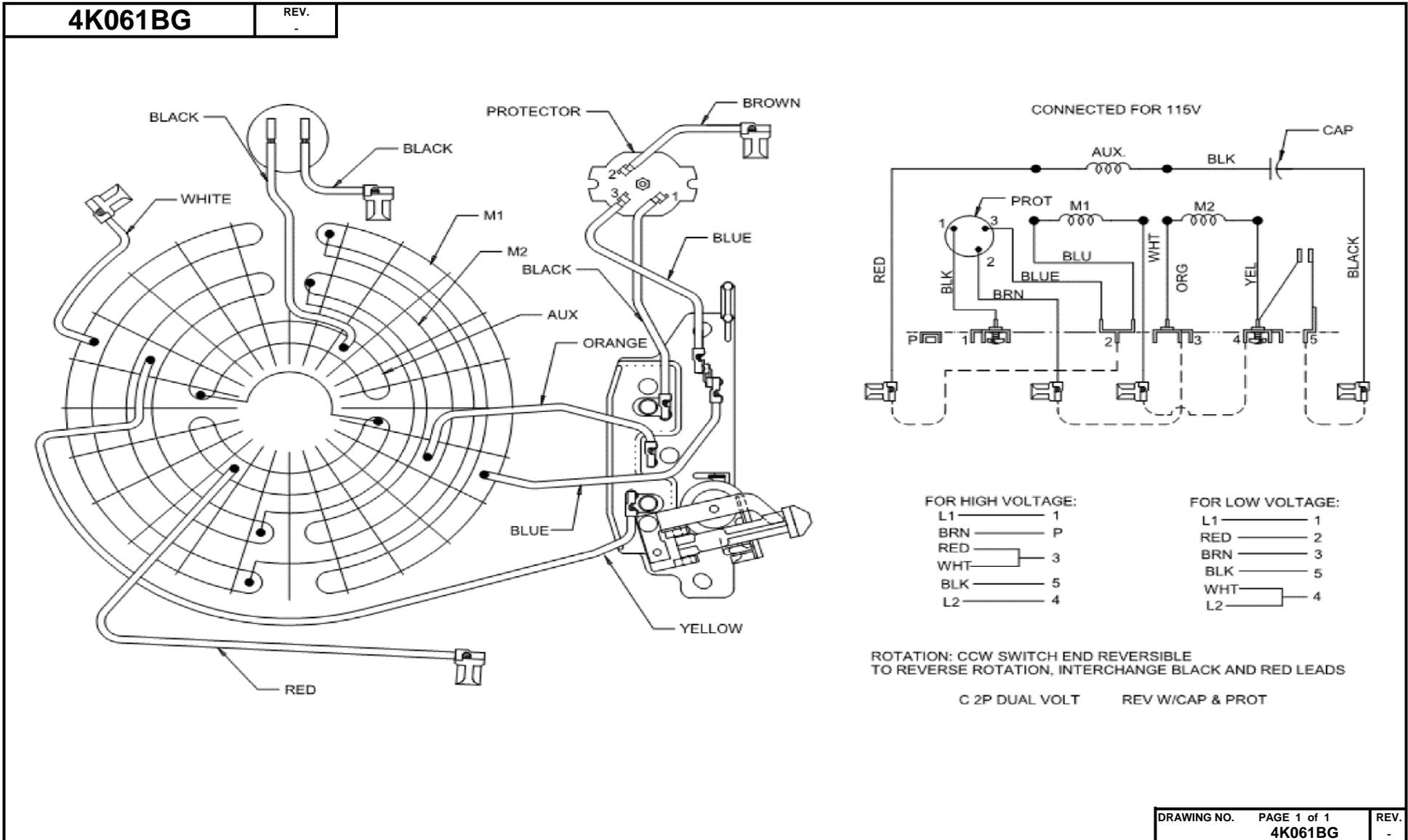
- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs ILine

Motor Ratings:
(1) C063KZJCB1349012E 4K061BG

DRAWING NO.	PAGE 8 of 8	REV.
4K061BG		-

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

Wiring Diagram



Dayton[®]**AERATION FAN MOTOR**

HP: 2
VOLTS: 115/230

[BAR CODE]

Part No 4K061BG

AMPS: 22.2/11.1

PH: 1

RPM: 3450

HZ: 60

DUTY: CONT

FR: 143TZ

SF: 1

INS CL: B

KVA CODE: H

AMB: 50 °C

ENCL: TEAO

SFA:

THERMALLY PROTECTED: AUTO

MFG. NO. [] []

PROT. CODE: [00701]

AVG. F.L.
EFF.

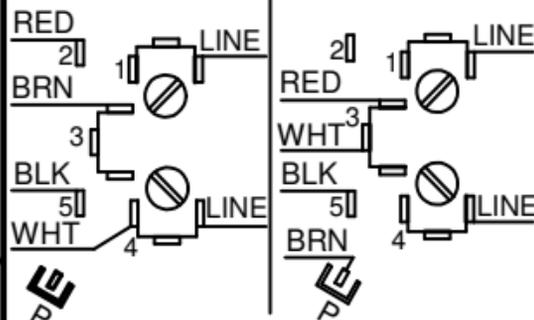
MTR REF: C63KZJCB-1349

**Disconnect Power Before Making Any
Electrical Connections or Changes**

CONNECTIONS

115 VOLTS

230 VOLTS



MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS



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

[Made in Mexico]