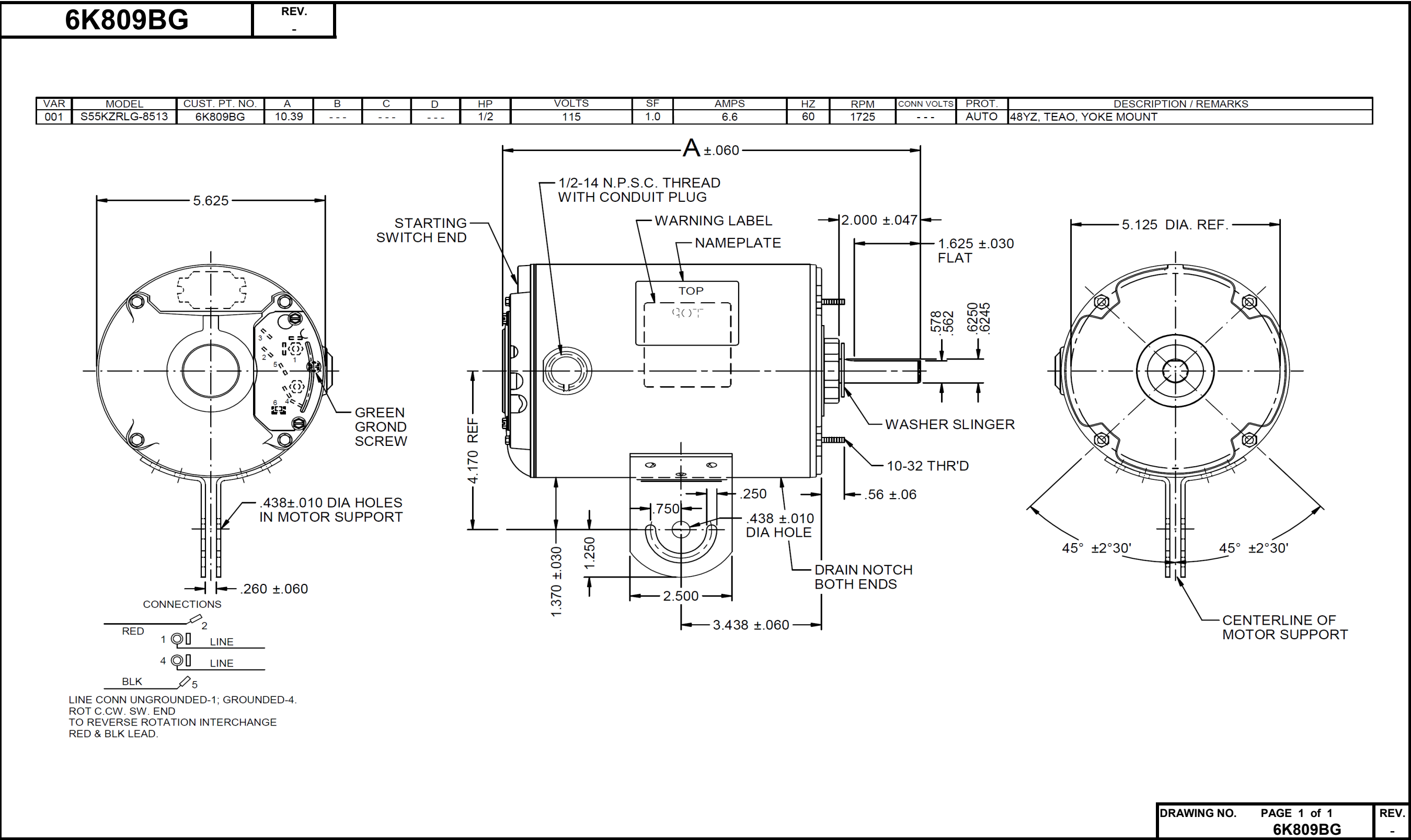


Dimensional Drawing





6K809BG

REV.
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SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE

HP:	1/2							
Poles:	4							
Ambient (°C)	40							
Altitude (FASL):								
No. of Speeds:	1							
Volts:	115	115						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	67.4						
Power Factor:	@ Rated Load	77.4						
Amps:	@ No Load							
	@ Rated Load	6.2						
	@ Service Factor							
	@ Locked Rotor	38						
RPM:	@ Rated Load	1713						
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	42.9						
	Locked Rotor	24.2						
	Pull-Up	23.8						
	Rated Load	24.5						
	Service Factor							
Watts:	@ Rated Load	554						
KVA Code:	K	K						
Temperature Rise:	@ Rated Load	TEAO						
	@ Service Factor							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor(s):	Start Micro-Farads Rating	N/A						
	Start Voltage Rating							
	No. of Start Capacitors	0						
	Run Micro-Farads Rating	N/A						
	Run Voltage Rating							
	No. of Run Capacitors	0						

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: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

Performance Data



6K809BG			REV. -							
Dayton Manufacturing Company										
Motor Description					Test Conditions					
Model:		S055KZRLG8247		6K809BG	Test Type:		Start		Run Cap:	0
Motor ID:		1 of 2			Test Number:		5		Start Cap:	0µfd
Poles:		4			Poles:		4		Environment:	
Volts:		115			Volts:		115		Tested:	8/20/2010 10:40:58 AM
Frequency:		60			Hz:		60		Tested By:	Sharp, Gerald
HP:		1/2			Rotation:				Gear Ratio:	1:1
Speed:		1725			Special Cond:				Bearing Friction:	-0.51 Oz-Ft
Phase:		1			Speed Conn:				Windage Torque:	-2.17 Oz-Ft
Protector:		MEJ26BY			TestBoard:		Amps Performance		Fixture #3	
Special Points		Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	
		115.0	38.01	3357	1	24.24	0.000	0.0	76.8	
		115.0	37.88	3351	22	27.33	0.007	0.2	76.9	
		115.0	37.87	3342	153	24.77	0.045	1.0	76.7	
PUT OZ-FT		115.0	37.84	3343	197	23.78	0.056	1.2	76.8	
		115.0	37.74	3340	296	26.57	0.094	2.1	77.0	
		115.0	37.49	3327	428	29.45	0.150	3.4	77.2	
		115.0	37.14	3305	550	32.35	0.212	4.8	77.4	
		115.0	36.78	3280	659	34.29	0.269	6.1	77.5	
		115.0	36.41	3261	760	36.65	0.332	7.6	77.9	
		115.0	35.94	3230	853	39.27	0.399	9.2	78.1	
		115.0	35.44	3199	939	41.97	0.469	10.9	78.5	
		115.0	34.87	3160	1018	43.75	0.530	12.5	78.8	
		115.0	34.26	3118	1091	45.60	0.592	14.2	79.2	
		115.0	33.60	3064	1158	46.95	0.647	15.8	79.3	
		115.0	32.90	3014	1221	47.72	0.694	17.2	79.7	
		115.0	32.18	2957	1277	47.37	0.720	18.2	79.9	
		115.0	31.46	2905	1330	46.13	0.730	18.8	80.3	
		115.0	30.76	2849	1378	44.87	0.736	19.3	80.6	
		115.0	30.05	2790	1422	43.21	0.731	19.6	80.7	
		115.0	29.35	2726	1462	41.05	0.715	19.6	80.8	
		115.0	27.21	2511	1501	38.83	0.694	20.6	80.2	
		115.0	12.86	1179	1536	42.04	0.769	48.6	79.7	
		115.0	12.00	1105	1568	41.08	0.767	51.8	80.1	
		115.0	11.10	1028	1596	39.62	0.753	54.6	80.5	
		115.0	10.14	943	1623	37.89	0.732	57.9	80.9	
		115.0	9.22	858	1647	35.61	0.698	60.7	81.0	
		115.0	8.29	766	1669	32.52	0.646	62.9	80.4	
		115.0	7.33	666	1691	28.75	0.579	64.9	79.0	
		115.0	6.47	574	1712	24.95	0.508	66.1	77.0	
		115.0	5.57	471	1730	20.36	0.419	66.4	73.5	
		115.0	4.81	371	1748	15.40	0.320	64.5	67.0	
		115.0	4.04	251	1767	9.13	0.192	57.0	54.2	
		115.0	3.47	132	1786	2.35	0.050	28.3	33.0	
		115.0	3.36	84	1794	0.00	0.000	0.0	21.8	
DRAWING NO. PAGE 1 of 4 REV.										
6K809BG -										

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

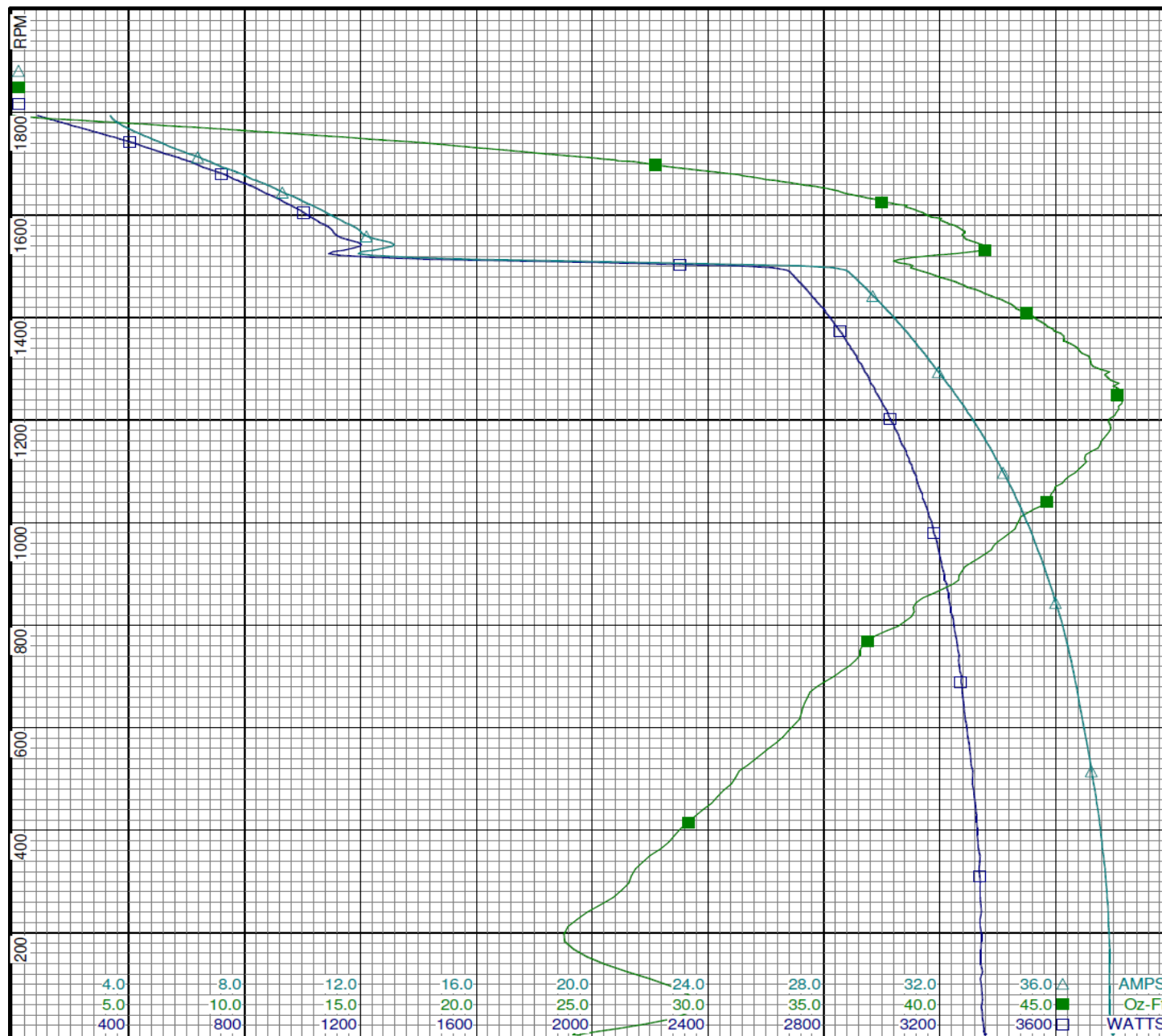
Performance Data



6K809BG

REV.

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**Dayton**

Curve Descriptions:

Motor(1) Test 5 Start 115V 60 Hz 4P

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

Motor Ratings:

(1) S055KZRLG8247 6K809BG

DRAWING NO.

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6K809BG

REV.

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

Performance Data



6K809BG			REV. -					
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model:	S055KZRLG8247	6K809BG	Test Type:	Run	Run Cap:	0		
Motor ID:	1 of 2		Test Number:	3	Start Cap:	0µfd		
Poles:	4		Poles:	4	Environment:			
Volts:	115		Volts:	115	Tested:	8/20/2010 10:39:50 AM		
Frequency:	60		Hz:	60	Tested By:	Sharp, Gerald		
HP:	1/2		Rotation:		Gear Ratio:	1:1		
Speed:	1725		Special Cond:		Bearing Friction:	-0.54 Oz-Ft		
Phase:	1		Speed Conn:		Windage Torque:	-2.26 Oz-Ft		
Protector:	MEJ26BY		TestBoard:	Amps Performance	Fixture #3			
Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	3.22	76	1787	0.00	0.000	0.0	20.4
	115.0	3.71	215	1767	7.40	0.156	54.0	50.4
	115.0	4.57	347	1747	14.55	0.303	65.0	66.1
0.333 HP	115.0	4.80	378	1742	16.07	0.333	65.8	68.5
	115.0	5.53	473	1726	20.86	0.428	67.5	74.5
1725 RPM	115.0	5.58	480	1725	21.14	0.434	67.5	74.7
24.3 OZ-FT	115.0	6.17	549	1714	24.30	0.496	67.4	77.4
0.5 HP	115.0	6.21	554	1713	24.52	0.500	67.3	77.5
	115.0	6.61	596	1705	26.36	0.535	67.0	78.4
28 OZ-FT	115.0	6.98	635	1697	28.00	0.566	66.5	79.1
	115.0	7.52	696	1685	30.34	0.609	65.2	80.5
	115.0	8.60	804	1661	34.27	0.678	62.9	81.2
	115.0	9.66	906	1636	37.45	0.729	60.1	81.5
	115.0	10.65	995	1609	39.67	0.760	57.0	81.2
	115.0	11.67	1085	1581	41.43	0.780	53.6	80.8
	115.0	12.67	1165	1549	42.48	0.784	50.2	80.0
BDT OZ-FT	115.0	13.62	1237	1516	42.94	0.775	46.7	79.0
	115.0	13.62	1237	1516	42.94	0.775	46.7	79.0
	115.0	14.54	1303	1479	42.58	0.750	42.9	77.9
	115.0	15.42	1360	1438	41.60	0.712	39.1	76.7
	115.0	16.26	1411	1394	40.27	0.668	35.3	75.5
	115.0	17.05	1453	1347	38.43	0.616	31.6	74.1
	115.0	17.79	1490	1296	36.21	0.559	28.0	72.8
	115.0	18.47	1519	1240	33.53	0.495	24.3	71.5
	115.0	19.10	1543	1180	30.66	0.431	20.8	70.3
	115.0	19.67	1563	1114	27.57	0.366	17.5	69.1
	115.0	20.20	1576	1044	24.50	0.304	14.4	67.9
	115.0	20.68	1588	968	21.37	0.246	11.6	66.8
	115.0	21.10	1596	886	17.89	0.189	8.8	65.8
	115.0	21.48	1599	799	14.70	0.140	6.5	64.7
PUT OZ-FT	115.0	4.21	298	1755	11.98	0.250	62.6	61.5
	115.0	24.68	1907	704	16.28	0.137	5.3	67.2
	115.0	37.44	3326	610	32.92	0.239	5.4	77.2
	115.0	37.86	3360	502	31.33	0.187	4.2	77.2
	115.0	38.03	3365	386	28.22	0.130	2.9	76.9
	115.0	38.11	3367	264	25.68	0.081	1.8	76.8
	115.0	38.06	3358	132	24.90	0.039	0.9	76.7

DRAWING NO.

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6K809BG

REV.

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	6K809BG	-

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

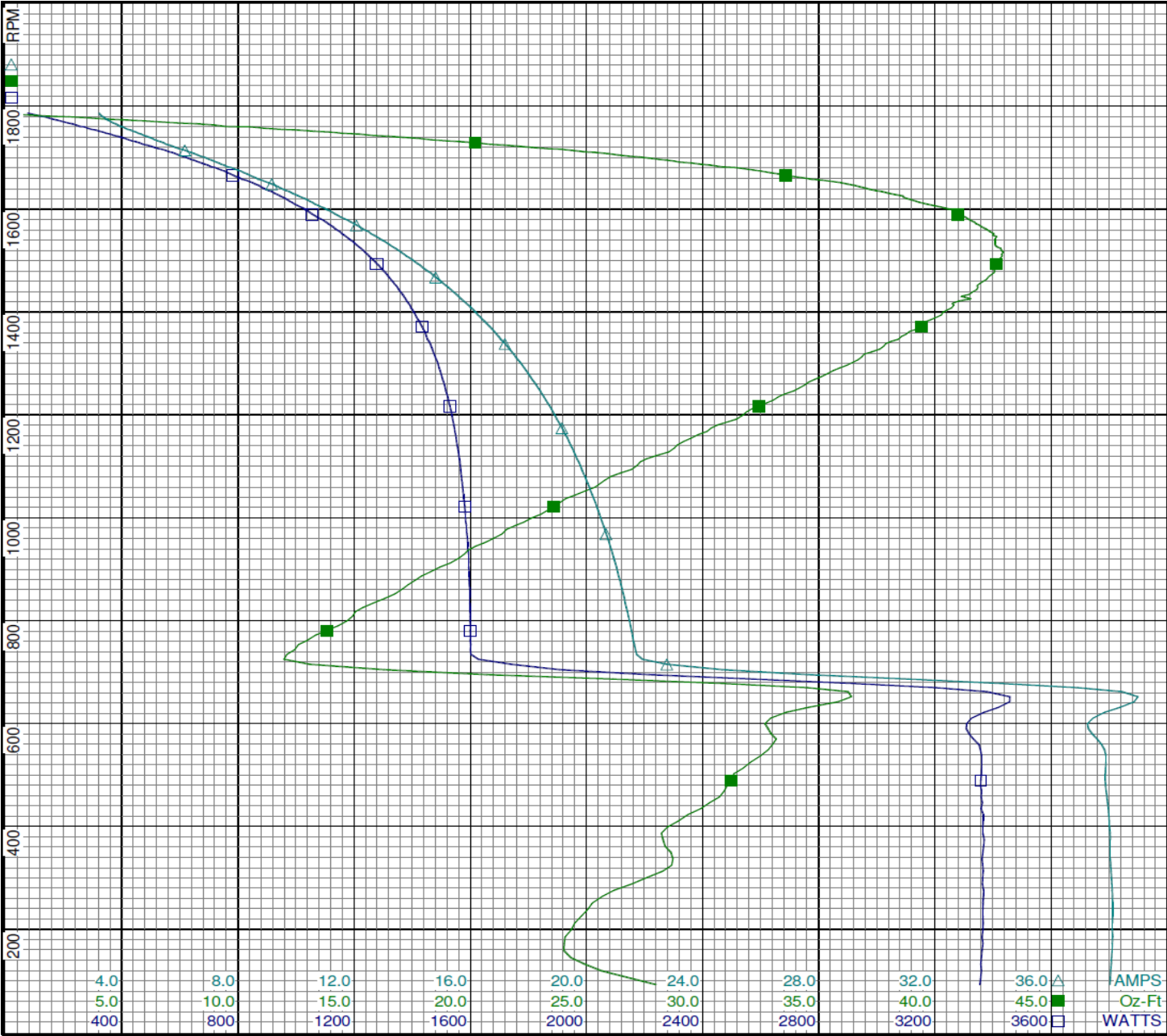
Performance Data



6K809BG

REV.

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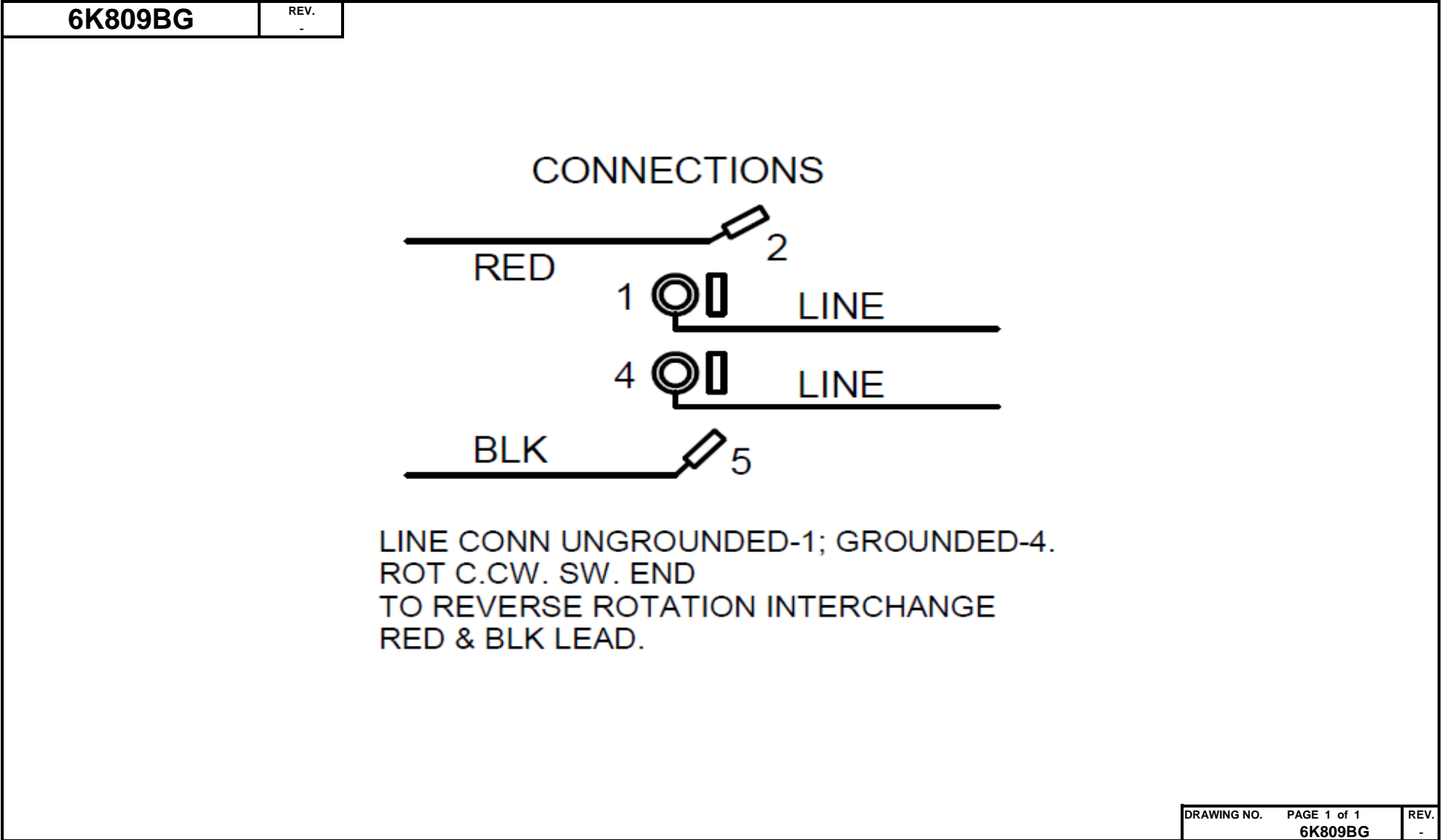
Curve Descriptions:
Motor(1) Test 3 Run 115V 60 Hz 4P

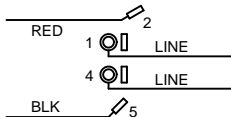
- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs ILine

Motor Ratings:
(1) S055KZRLG8247 6K809BG

DRAWING NO.	PAGE 4 of 4	REV.
6K809BG		-

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



Dayton[®]**PEDESTAL FAN MOTOR****HP:** 1/2**VOLTS:** 115**AMPS:** 6.6**RPM:** 1725**DUTY:** CONT**SF:** 1.0**KVA CODE:** L**ENCL:** TEAO**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 04300**MTR REF:** S55KZRLG-8513Part
No **6K809BG****PH:** 1**HZ:** 60**FR:** 48YZ**INS CL:** B**AMB:** 40 °C**SFA:** 6.6AVG. F.L.
EFF.**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS**

LINE CONN UNGROUNDED-1; GROUNDED-4.
ROT C.W. SW. END
TO REVERSE ROTATION INTERCHANGE
RED & BLK LEAD.

**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**