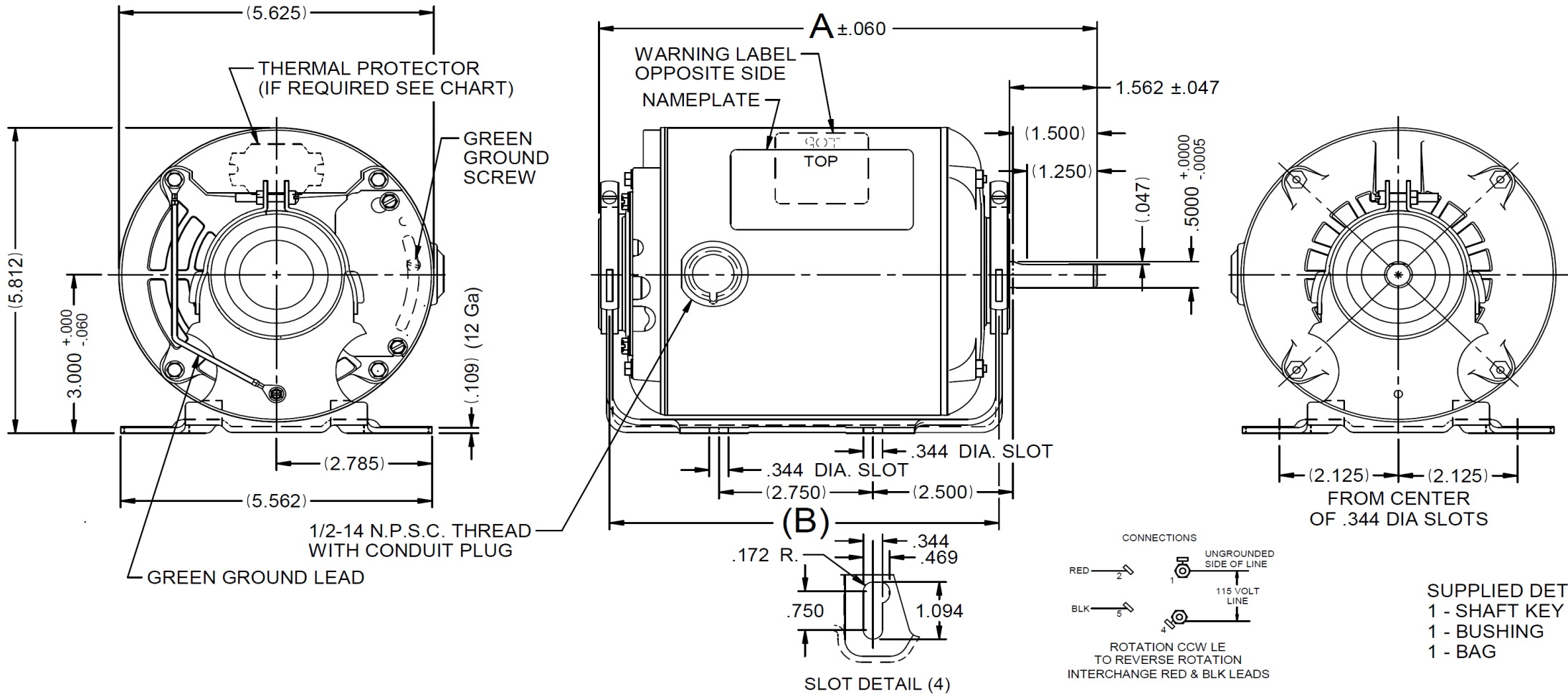


# Dimensional Drawing



<b>6K570BG</b>	<b>REV.</b> -
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VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	S55JXGWJ-8490	6K570BG	9.901	7.983	-----	-----	1/3	115	1.35	5.8	60	1725	---	AUTO	48, ODP, BALL BEARING



DRAWING NO.	PAGE 1 of 1	REV.
6K570BG		-

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# Performance Data



**6K570BG**

REV.

-

## MOTOR PERFORMANCE

<b>HP:</b>	1/3 HP								
<b>Poles:</b>	4								
<b>No. of Speeds:</b>	1								
<b>Volts:</b>	115	<b>115</b>							
<b>HZ:</b>	60	<b>60</b>							
<b>Service Factor:</b>	1.35								
<b>Efficiency:</b>	@ Rated Load	65.1							
<b>Power Factor:</b>	@ Rated Load	66.0							
<b>Amps:</b>	@ No Load								
	@ Rated Load	5.1							
	@ Service Factor	6.01							
	@ Locked Rotor	32.7							
<b>RPM:</b>	@ Rated Load	1751							
<b>Ambient (°C):</b>									
<b>Altitude (FASL):</b>									
<b>Torques:</b>	Breakdown	40.5							
	Locked Rotor	20.2							
	Pull-Up	17.4							
	Rated Load	16.2							
	Service Factor	21.9							
<b>Watts:</b>	Rated Load	387.2							
<b>KVA Code:</b>									
<b>Temperature Rise:</b>	@ Rated Load	37.1							
	@ Service Factor	40							
<b>Thermal Protector:</b>	Trip Temp (°C)	109.3							
<b>Winding Material:</b>	Start (Auxiliary)	AL							
	Run (Main)	AL							
<b>Capacitor(s):</b>	Start (MFD / Volts)								
	No. of Start Capacitors								
	Run (MFD / Volts)								
	No. of Run Capacitors								

### LOW SPEED PERFORMANCE DATA:

<b>HP:</b>									
<b>Poles:</b>									
<b>Volts:</b>									
<b>HZ:</b>									
<b>Efficiency:</b>	@ Rated Load								
<b>Power Factor:</b>	@ Rated Load								
<b>Amps:</b>	@ No Load								
	@ Rated Load								
	@ Service Factor								
	@ Locked Rotor								
<b>Torques:</b>	@ Rated Load								
	Locked Rotor								
	Pull-Up								
	Rated Load								
	Service Factor								
<b>Watts:</b>	@ Rated Load								
<b>Temperature Rise:</b>	@ Rated Load								
	@ Service Factor								

DRAWING NO. PAGE 1 REV.  
6K570BG -

# Performance Data



<b>6K570BG</b>	REV. -
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## Dayton Manufacturing Company

### Motor Description

Model: S055GWJ849001 6K570BG  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/3  
 Speed: 1725  
 Phase: 1  
 Protector: MEJ28AX

### Test Conditions

Test Type: Start  
 Test Number: 3  
 Poles: 4  
 Volts: 115  
 Hz: 60  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Aamps Performance Fixture #4  
 Run Cap: 0  
 Start Cap: 0µfd  
 Environment:  
 Tested: 9/6/2012 3:08:13 PM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: 0.00 Oz-Ft  
 Windage Torque: -0.97 Oz-Ft

Special Points	Vline (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	32.71	21.91	11.544	3139	35	20.25	0.009	0.2	83.4
	115.0	32.63	21.90	11.470	3130	42	20.27	0.010	0.2	83.4
	115.0	32.52	21.93	11.248	3117	175	17.45	0.036	0.9	83.3
<b>PUT OZ-FT</b>	<b>115.0</b>	<b>32.52</b>	<b>21.93</b>	<b>11.248</b>	<b>3117</b>	<b>175</b>	<b>17.45</b>	<b>0.036</b>	<b>0.9</b>	<b>83.3</b>
	115.0	32.33	21.87	11.017	3106	338	21.26	0.086	2.1	83.5
	115.0	32.06	21.73	10.769	3089	494	24.31	0.143	3.5	83.8
	115.0	31.70	21.53	10.516	3062	627	26.95	0.201	4.9	84.0
	115.0	31.30	21.27	10.279	3037	746	29.71	0.264	6.5	84.4
	115.0	30.85	20.95	10.064	3004	854	32.38	0.329	8.2	84.7
	115.0	30.37	20.59	9.861	2970	950	34.98	0.396	9.9	85.0
	115.0	29.84	20.19	9.667	2934	1039	37.29	0.461	11.7	85.5
	115.0	29.26	19.75	9.477	2889	1119	39.32	0.524	13.5	85.9
	115.0	28.66	19.29	9.305	2840	1190	41.17	0.583	15.3	86.2
	115.0	28.03	18.80	9.152	2788	1256	42.37	0.634	17.0	86.5
	115.0	27.36	18.27	9.024	2730	1316	43.24	0.677	18.5	86.8
	115.0	26.69	17.72	8.938	2673	1369	43.65	0.711	19.8	87.1
	115.0	26.02	17.16	8.888	2613	1416	43.56	0.734	21.0	87.4
	115.0	25.34	16.59	8.869	2550	1459	43.10	0.749	21.9	87.5
	115.0	24.67	16.01	8.888	2490	1497	42.54	0.758	22.7	87.8
	115.0	24.00	15.42	8.934	2424	1533	40.91	0.746	23.0	87.8
	115.0	23.34	14.84	9.009	2361	1563	38.79	0.722	22.8	87.9
	115.0	22.70	14.25	9.105	2296	1592	36.59	0.693	22.5	87.9
	115.0	22.09	13.67	9.229	2231	1618	34.02	0.655	21.9	87.8
	115.0	21.46	13.06	9.378	2166	1641	30.99	0.605	20.8	87.8
	115.0	20.86	12.48	9.527	2103	1663	27.78	0.550	19.5	87.6
	115.0	20.27	11.88	9.704	2036	1684	24.15	0.484	17.7	87.4
	115.0	19.71	11.27	9.899	1973	1702	20.27	0.411	15.5	87.0
	115.0	19.16	10.71	10.084	1909	1722	16.33	0.335	13.1	86.6
	115.0	18.56	10.07	10.295	1839	1739	11.64	0.241	9.8	86.2
	115.0	18.02	9.43	10.534	1772	1757	6.80	0.142	6.0	85.5
	115.0	17.44	8.68	10.811	1695	1774	1.10	0.023	1.0	84.5
	115.0	17.29	8.50	10.873	1676	1777	0.00	0.000	0.0	84.3

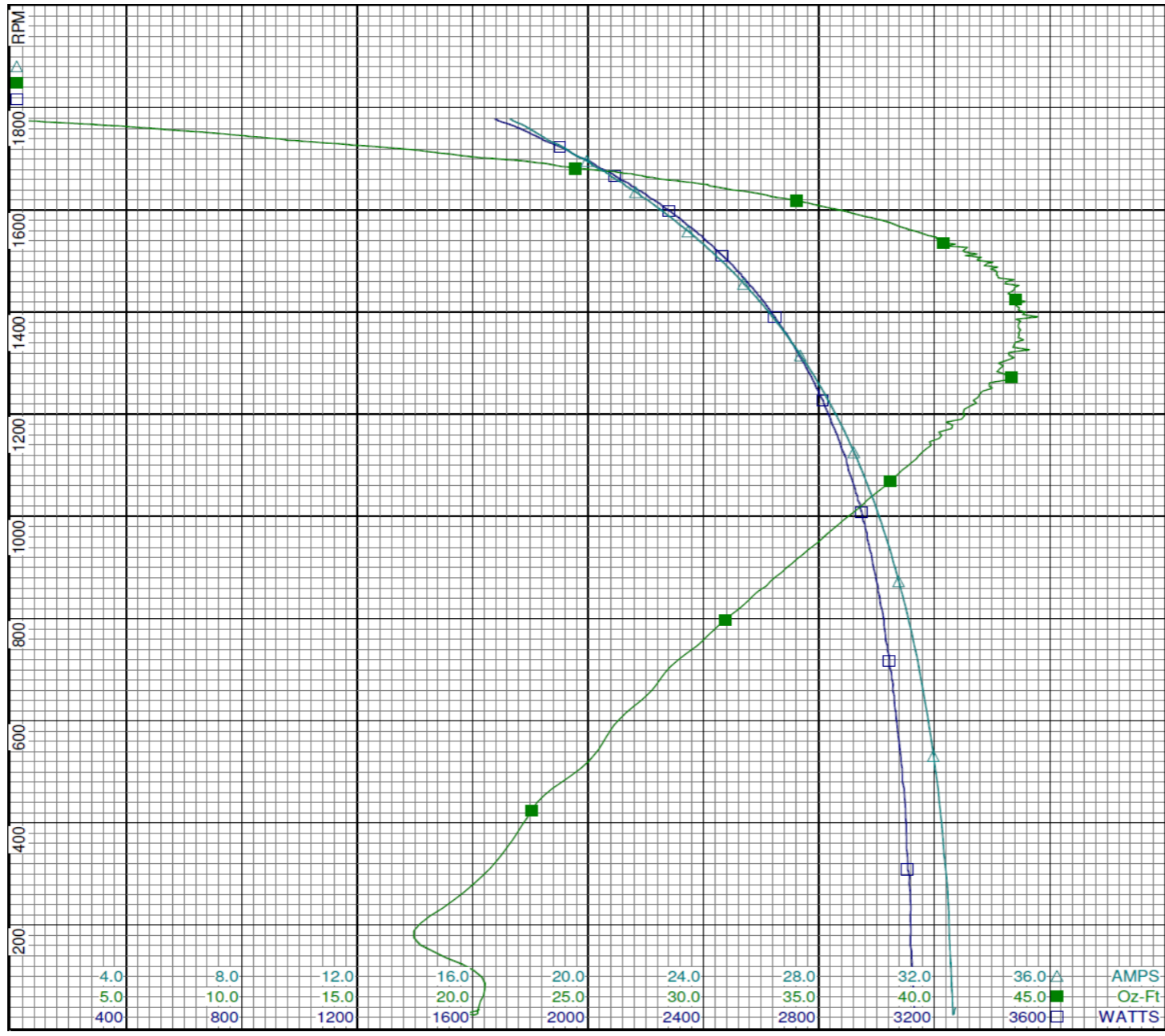
DRAWING NO.	PAGE 1 of 4	REV.
<b>6K570BG</b>		-

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

# Performance Data



**6K570BG**      REV. -



**Dayton**<sup>®</sup>

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

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

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Motor Ratings:  
S055GWJ849001 6K570BG

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	<b>6K570BG</b>	-

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

# Performance Data



**6K570BG**      REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S055GWJ849001 6K570BG  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/3  
 Speed: 1725  
 Phase: 1  
 Protector: MEJ28AX

### Test Conditions

Test Type: Run  
 Test Number: 4  
 Poles: 4  
 Volts: 115  
 Hz: 60  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Amps Performance Fixture #4  
 Run Cap: 0  
 Start Cap: 0µfd  
 Environment:  
 Tested: 9/6/2012 3:02:43 PM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.23 Oz-Ft  
 Windage Torque: -1.20 Oz-Ft

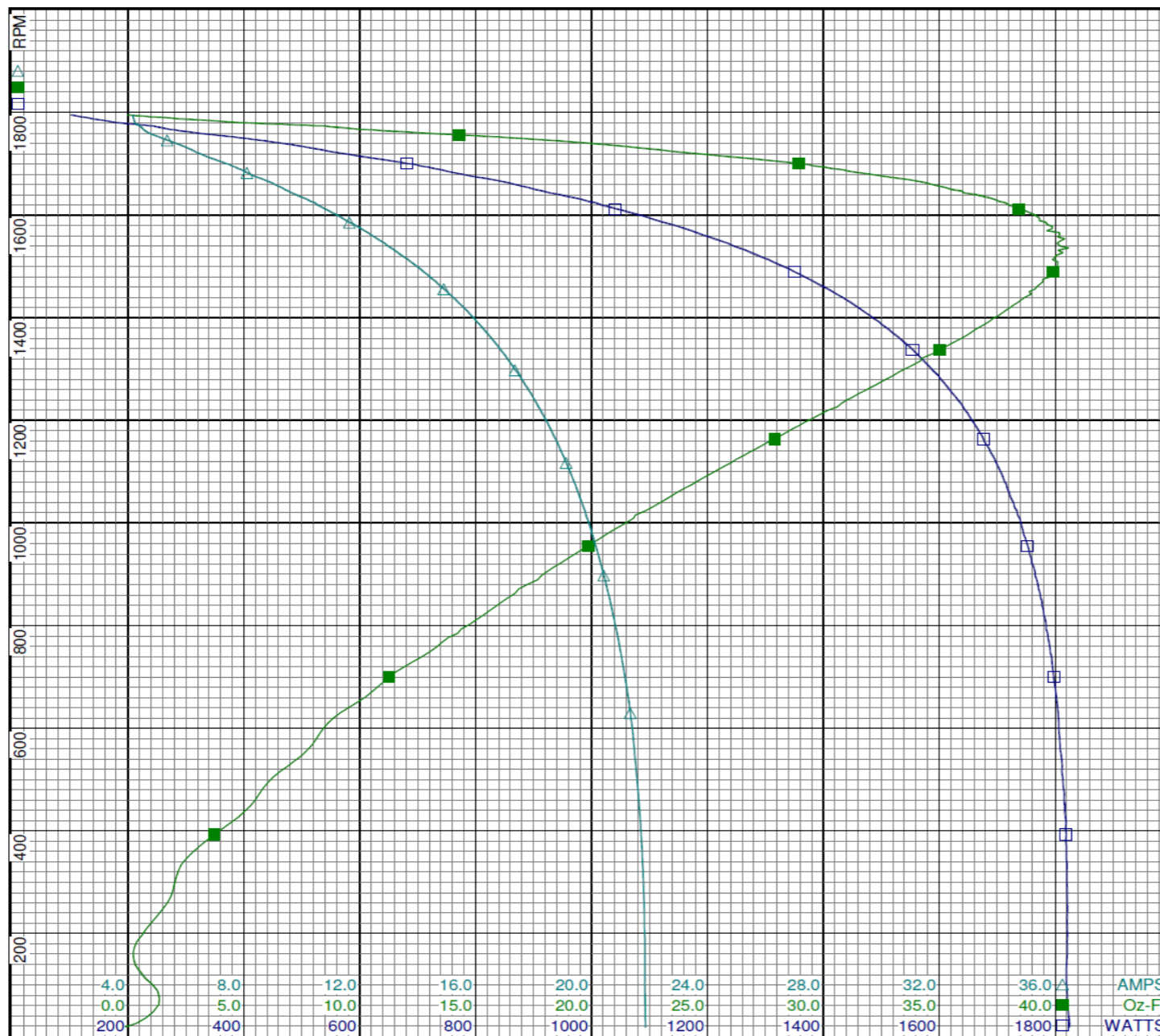
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	4.17	101.6	1795	0.00	0.000	0.0	21.2
	115.0	4.22	167.9	1782	4.05	0.086	38.2	34.6
	115.0	4.46	254.7	1771	9.08	0.191	56.1	49.6
	115.0	4.94	360.7	1755	14.89	0.311	64.3	63.5
<b>0.333 HP</b>	<b>115.0</b>	<b>5.07</b>	<b>382.2</b>	<b>1752</b>	<b>15.96</b>	<b>0.333</b>	<b>65.0</b>	<b>65.6</b>
<b>16.2 OZ-FT</b>	<b>115.0</b>	<b>5.10</b>	<b>387.2</b>	<b>1751</b>	<b>16.20</b>	<b>0.338</b>	<b>65.1</b>	<b>66.0</b>
	115.0	5.68	470.2	1739	20.09	0.416	66.0	71.9
<b>20.3 OZ-FT</b>	<b>115.0</b>	<b>5.72</b>	<b>475.1</b>	<b>1738</b>	<b>20.30</b>	<b>0.420</b>	<b>66.0</b>	<b>72.2</b>
<b>21.9 OZ-FT</b>	<b>115.0</b>	<b>6.01</b>	<b>511.1</b>	<b>1731</b>	<b>21.90</b>	<b>0.451</b>	<b>65.9</b>	<b>73.9</b>
<b>1725 RPM</b>	<b>115.0</b>	<b>6.26</b>	<b>543.3</b>	<b>1725</b>	<b>23.30</b>	<b>0.479</b>	<b>65.7</b>	<b>75.4</b>
	115.0	6.56	582.7	1718	24.98	0.511	65.4	77.3
	115.0	7.59	705.7	1695	29.63	0.598	63.2	80.9
	115.0	8.69	829.6	1669	33.69	0.669	60.2	83.0
	115.0	9.92	957.1	1636	36.87	0.718	56.0	83.9
	115.0	11.16	1079.2	1601	39.06	0.745	51.5	84.1
	115.0	12.38	1191.3	1561	40.20	0.747	46.8	83.7
<b>BDT OZ-FT</b>	<b>115.0</b>	<b>13.08</b>	<b>1255.0</b>	<b>1535</b>	<b>40.57</b>	<b>0.742</b>	<b>44.1</b>	<b>83.5</b>
	115.0	13.54	1294.5	1517	39.98	0.722	41.6	83.1
	115.0	14.61	1382.6	1470	39.47	0.691	37.3	82.3
	115.0	15.59	1461.2	1419	38.02	0.642	32.8	81.5
	115.0	16.45	1524.7	1366	36.18	0.588	28.8	80.6
	115.0	17.22	1577.9	1310	33.95	0.530	25.0	79.7
	115.0	17.91	1623.0	1252	31.50	0.469	21.6	78.8
	115.0	18.52	1662.3	1189	28.94	0.410	18.4	78.1
	115.0	19.07	1695.4	1124	26.24	0.351	15.5	77.3
	115.0	19.57	1721.9	1052	23.43	0.293	12.7	76.5
	115.0	20.02	1745.4	978	20.64	0.240	10.3	75.8
	115.0	20.42	1765.1	898	17.84	0.191	8.1	75.2
	115.0	20.78	1782.6	811	15.01	0.145	6.1	74.6
	115.0	21.09	1795.2	719	11.90	0.102	4.2	74.0
	115.0	21.35	1805.2	619	8.85	0.065	2.7	73.5
	115.0	21.53	1811.2	516	6.57	0.040	1.7	73.1
	115.0	21.69	1817.9	404	4.06	0.020	0.8	72.9
	115.0	21.79	1820.5	286	1.95	0.007	0.3	72.6
	115.0	21.84	1821.0	161	0.21	0.000	0.0	72.5
	115.0	21.85	1823.4	35	0.76	0.000	0.0	72.6

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**6K570BG**      -

# Performance Data



**6K570BG**      REV. -



**Dayton**<sup>®</sup>

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

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

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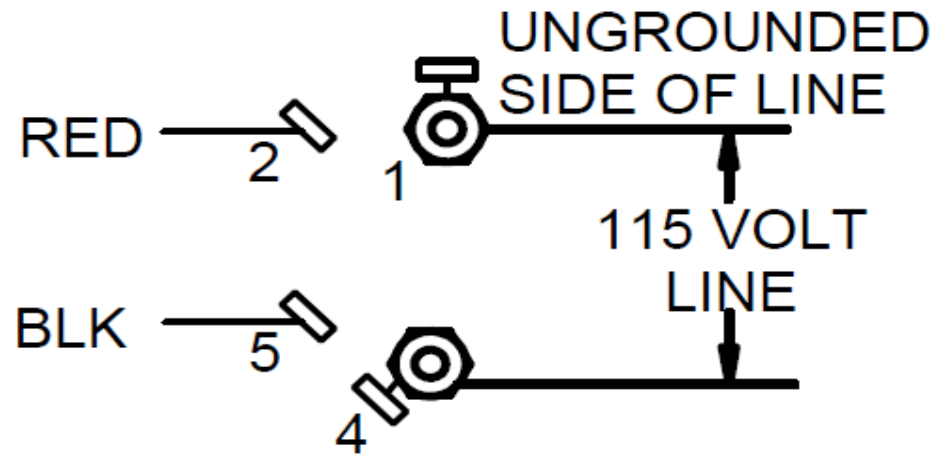
Motor Ratings:  
S055GWJ849001 6K570BG

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	<b>6K570BG</b>	-

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

6K570BG	REV. -
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## CONNECTIONS



ROTATION CCW LE  
TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

DRAWING NO.	PAGE 1 of 1	REV.
6K570BG		-

**Dayton**<sup>®</sup>

# BELT DRIVE FAN & BLOWER MOTOR

HP: 1/3

VOLTS: 115

AMPS: 5.8

RPM: 1725

DUTY: CONT

SF: 1.35

KVA CODE: M

ENCL: ODP

THERMALLY PROTECTED: AUTO

MFG. NO.   PROT. CODE:  04320 

MTR REF: S55JXGWJ-8490

PH: 1

HZ: 60

FR: 48

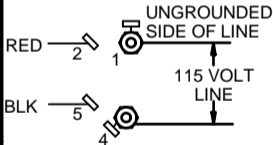
INS CL: B

AMB: 40 °C

SFA: 6.4

AVG. F.L.  
EFF.Part  
No 6K570BGDisconnect Power Before Making Any  
Electrical Connections or Changes

## CONNECTIONS

ROTATION CCW LE  
TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

E37403



258501

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

Made in Mexico