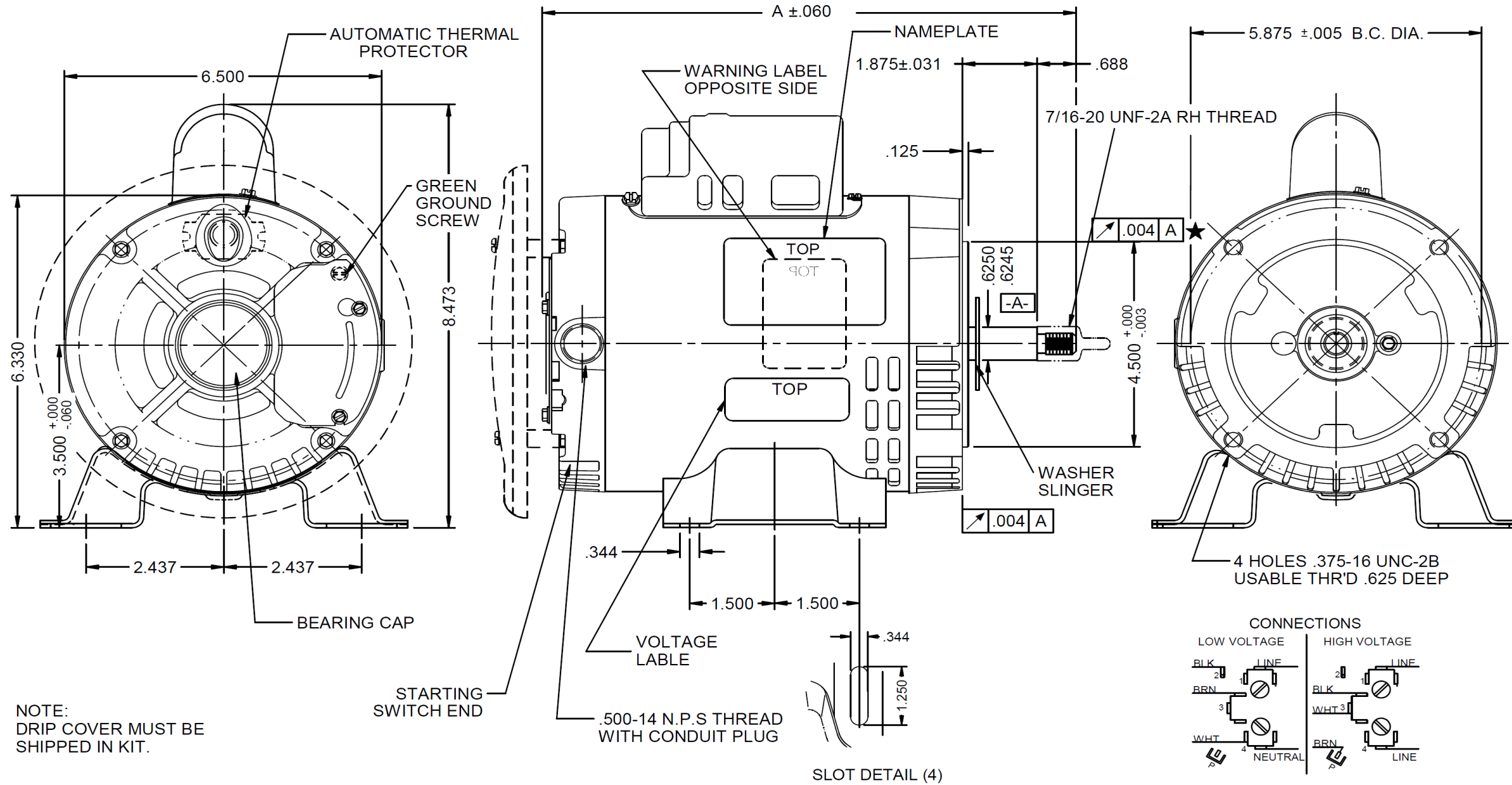


# Dimensional Drawing



<b>6K581BG</b>										REV.	
										-	

VAR	MODEL	CUSTOMER PN	A	B	C	D	PROTECTOR	HP	VOLTS	AMPS	HZ	RPM	CONN VOLTS	ROTATION	SF	DESCRIPTION / REMARKS
001	C063CXHLM-1371	6K581BG	12.124	--	--	--	AUTO	3/4	115/208-230	11.0/5.4-5.5	60	3450	230	CCW DR. END	1.5	56J, ODP, DRIP COVER



DRAWING NO.	PAGE 1 of 1	REV.
6K581BG		-

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

# Performance Data



**6K581BG**

REV.

-

## MOTOR PERFORMANCE

<b>HP:</b>	3/4HP						
<b>Poles:</b>	2						
<b>No. of Speeds:</b>	1						
<b>Volts:</b>	115/208-230	<b>115</b>	<b>208</b>	<b>230</b>			
<b>HZ:</b>	60	<b>60</b>	<b>60</b>	<b>60</b>			
<b>Service Factor:</b>	1.5						
<b>Efficiency:</b>	@ Rated Load	77.2	70.2	73.3			
<b>Power Factor:</b>	@ Rated Load	67.6	77.8	68.8			
<b>Amps:</b>	@ No Load						
	@ Rated Load	9.5	5	4.9			
	@ Service Factor	738	804	775			
	@ Locked Rotor	58.6	26.7	29.9			
<b>RPM:</b>	@ Rated Load	3522	3492	3516			
<b>Ambient (°C):</b>							
<b>Altitude (FASL):</b>							
<b>Torques:</b>	Breakdown	58.5	45.9	60.4			
	Locked Rotor	40.7	30.7	39.3			
	Pull-Up	43.8	27.6	35.4			
	Rated Load	18.2	18.2	18.2			
	Service Factor	27.4	27.4	27.4			
<b>Watts:</b>	Rated Load	738	804	775			
<b>KVA Code:</b>							
<b>Temperature Rise:</b>	@ Rated Load	19.4	16.8	18.1			
	@ Service Factor	29.7	35.7	29.2			
<b>Thermal Protector:</b>	Trip Temp (°C)	117.7	115.9	113.8			
<b>Winding Material:</b>	Start (Auxiliary)	AL	AL	AL			
	Run (Main)	AL	AL	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.  
6K581BG -

# Performance Data



<b>6K581BG</b>	REV.	-
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## Dayton Manufacturing Company

### Motor Description

### Test Conditions

Model:	C063HLM137101	6K581BG	Test Type:	Start	Run Cap:	0
Motor ID:	1		Test Number:	1	Start Cap:	238µfd 110 VOLTS
Poles:	2		Poles:	2	Environment:	22.1 Deg C 24 % RH 991 hPa
Volts:	115/208-230		Volts:	115	Tested:	3/30/2016 7:49:57 AM
Frequency:	60		Hz:	60	Tested By:	Sharp, Gerald
HP:	3/4		Rotation:	CW	Gear Ratio:	1:1
Speed:	3450		Special Cond:		Bearing Friction:	-0.16 Oz-Ft
Phase:	1		Speed Conn:		Windage Torque:	-2.24 Oz-Ft
Protector:	AUTO		TestBoard:	Amps Performance	Fixture #1	

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	58.57	5226	2	40.67	0.001	0.0	77.6
	115.0	58.53	5229	97	39.73	0.046	0.7	77.7
	<b>115.0</b>	<b>58.54</b>	<b>5244</b>	<b>156</b>	<b>39.45</b>	<b>0.073</b>	<b>1.0</b>	<b>77.9</b>
	115.0	58.50	5238	407	41.17	0.200	2.8	77.9
	115.0	58.26	5246	699	43.76	0.364	5.2	78.3
	115.0	57.92	5246	965	47.08	0.541	7.7	78.8
	115.0	57.47	5255	1211	50.26	0.724	10.3	79.5
	115.0	57.04	5261	1436	52.95	0.905	12.8	80.2
	115.0	56.48	5261	1643	56.59	1.107	15.7	81.0
	115.0	55.82	5255	1835	59.79	1.306	18.5	81.9
	115.0	55.14	5247	2011	62.96	1.507	21.4	82.7
	115.0	54.37	5243	2172	65.95	1.705	24.3	83.8
	115.0	53.26	5141	2320	64.89	1.792	26.0	83.9
	115.0	46.87	4101	2451	43.41	1.267	23.0	76.1
	115.0	45.30	4012	2576	45.86	1.407	26.2	77.0
	115.0	43.34	3903	2690	48.73	1.561	29.8	78.3
	115.0	41.24	3773	2794	51.56	1.715	33.9	79.6
	115.0	39.00	3625	2889	53.13	1.827	37.6	80.8
	115.0	36.65	3458	2975	54.51	1.931	41.6	82.0
	115.0	34.18	3267	3053	54.45	1.979	45.2	83.1
	115.0	31.72	3065	3123	53.77	1.999	48.7	84.0
	115.0	29.11	2839	3188	55.14	2.093	55.0	84.8
	115.0	26.53	2607	3244	50.02	1.932	55.3	85.4
	115.0	23.03	2268	3298	45.31	1.779	58.5	85.6
	115.0	20.42	2005	3348	42.84	1.708	63.5	85.4
	115.0	17.82	1730	3395	39.42	1.593	68.7	84.4
	115.0	15.35	1454	3437	32.66	1.336	68.5	82.4
	115.0	12.81	1148	3481	27.68	1.147	74.5	77.9
	115.0	10.41	819	3522	18.41	0.772	70.3	68.4
	115.0	8.62	489	3561	6.87	0.291	44.4	49.3
	115.0	7.97	234	3591	0.00	0.000	0.0	25.6

DRAWING NO.	PAGE 1 of 8	REV.
<b>6K581BG</b>		-

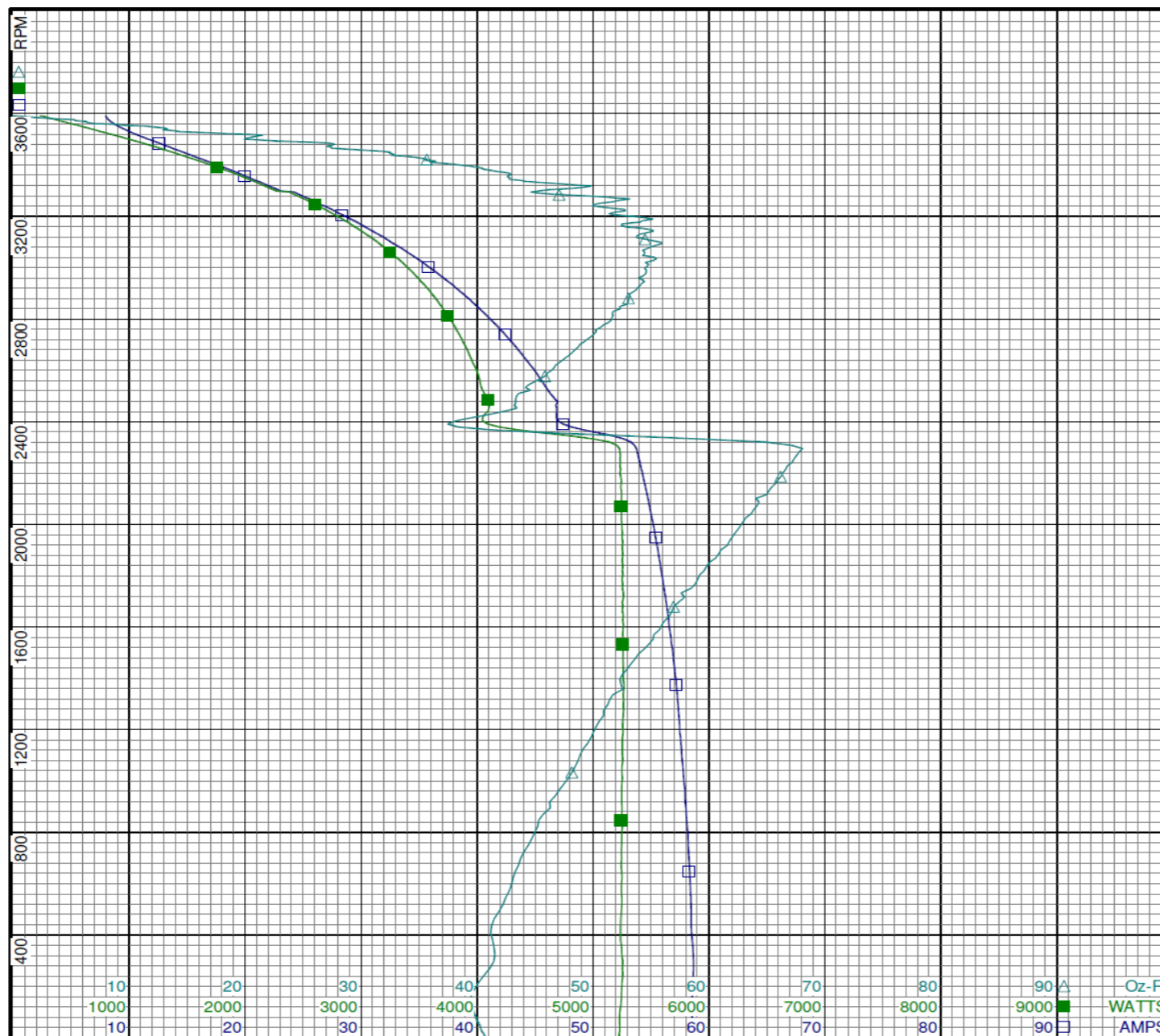


**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Performance Data



**6K581BG**      REV. -



**Dayton**

**Curve Descriptions:**  
 Motor(1) Test 1 Start 115V 60 Hz 2P  
 CW 238ufd Start

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

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**Motor Ratings:**  
 (1) C063HLM137101 ID: 1  
 6K581BG

DRAWING NO.	PAGE 2 of 8	REV.
6K581BG		-

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

# Performance Data



<b>6K581BG</b>	REV. -
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## Dayton Manufacturing Company

### Motor Description

### Test Conditions

Model:	C063HLM137101	6K581BG	Test Type:	Run	Run Cap:	0
Motor ID:	1		Test Number:	2	Start Cap:	238µfd 110VOLTS
Poles:	2		Poles:	2	Environment:	22.0 Deg C 25 % RH 991 hPa
Volts:	115/208-230		Volts:	115	Tested:	3/30/2016 8:56:55 AM
Frequency:	60		Hz:	60	Tested By:	Sharp, Gerald
HP:	3/4		Rotation:	CW	Gear Ratio:	1:1
Speed:	3450		Special Cond:		Bearing Friction:	0.00 Oz-Ft
Phase:	1		Speed Conn:		Windage Torque:	-1.92 Oz-Ft
Protector:	AUTO		TestBoard:	Amps Performance	Fixture #1	

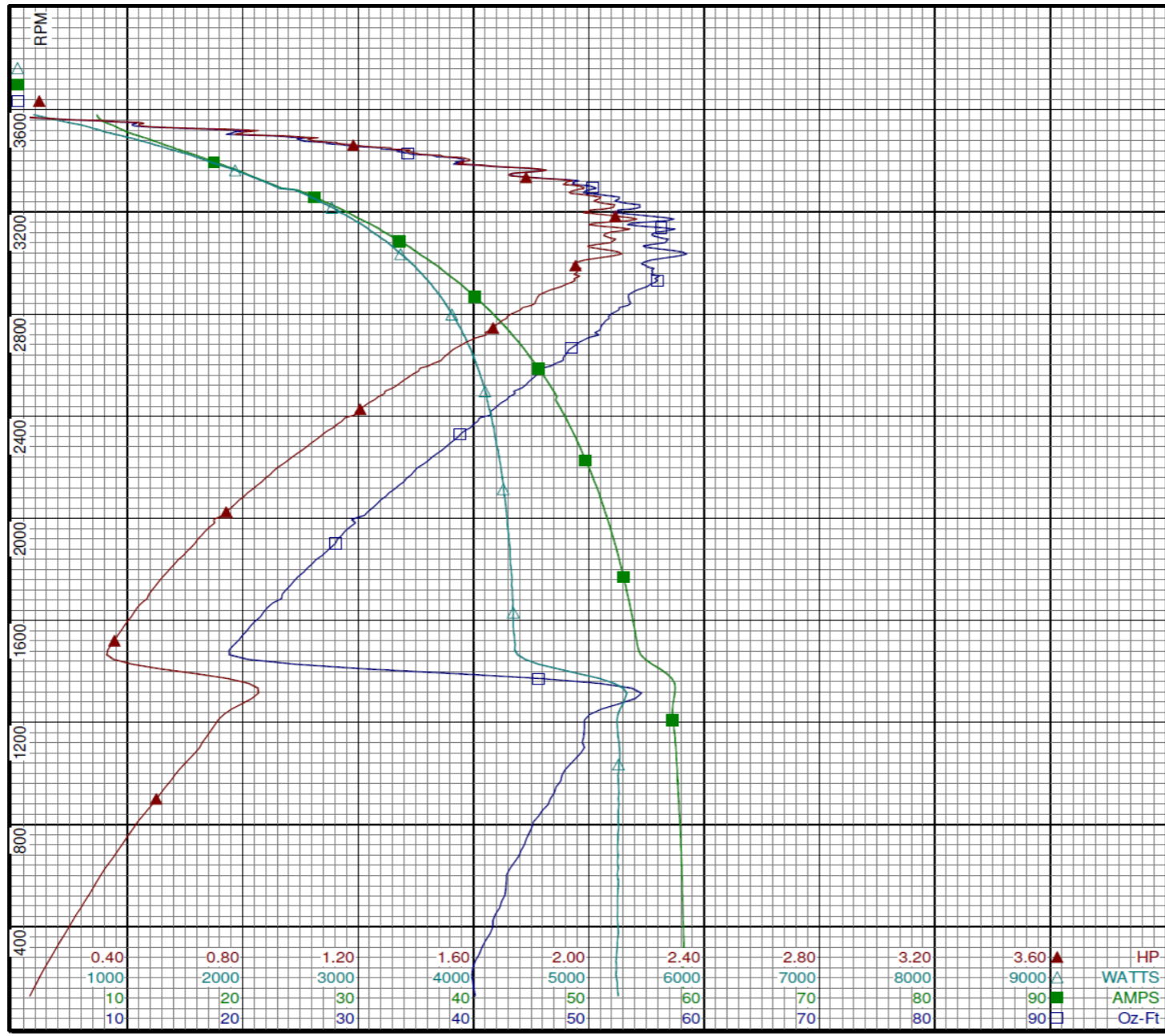
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	7.34	186	3580	0.00	0.000	0.0	22.0
	115.0	8.47	564	3543	10.45	0.441	58.3	57.9
<b>0.75 HP</b>	<b>115.0</b>	<b>9.46</b>	<b>734</b>	<b>3522</b>	<b>17.89</b>	<b>0.750</b>	<b>76.2</b>	<b>67.4</b>
<b>18.2 OZ-FT</b>	<b>115.0</b>	<b>9.49</b>	<b>738</b>	<b>3522</b>	<b>18.20</b>	<b>0.763</b>	<b>77.2</b>	<b>67.6</b>
	115.0	10.76	925	3500	20.44	0.851	68.7	74.7
<b>27.4 OZ-FT</b>	<b>115.0</b>	<b>12.96</b>	<b>1206</b>	<b>3466</b>	<b>27.40</b>	<b>1.131</b>	<b>69.9</b>	<b>81.0</b>
	115.0	13.20	1236	3462	28.72	1.184	71.5	81.4
<b>3450 RPM</b>	<b>115.0</b>	<b>14.03</b>	<b>1331</b>	<b>3450</b>	<b>31.97</b>	<b>1.313</b>	<b>73.6</b>	<b>82.5</b>
	115.0	15.98	1553	3420	36.48	1.485	71.3	84.6
	115.0	18.57	1832	3378	41.55	1.671	68.0	85.8
	115.0	20.99	2086	3335	44.91	1.783	63.8	86.4
	115.0	24.71	2446	3286	50.02	1.957	59.7	86.1
	115.0	27.15	2677	3238	52.73	2.033	56.6	85.8
	115.0	29.67	2905	3183	55.22	2.093	53.7	85.1
	115.0	32.07	3106	3125	56.73	2.110	50.7	84.2
	115.0	34.49	3304	3061	54.95	2.002	45.2	83.3
<b>BDT OZ-FT</b>	<b>115.0</b>	<b>35.31</b>	<b>3370</b>	<b>3034</b>	<b>58.51</b>	<b>2.113</b>	<b>46.8</b>	<b>83.0</b>
	115.0	36.81	3482	2990	54.92	1.955	41.9	82.3
	115.0	38.93	3635	2915	55.31	1.919	39.4	81.2
	115.0	40.95	3766	2832	53.39	1.800	35.7	80.0
	115.0	42.83	3884	2745	51.05	1.668	32.0	78.9
	115.0	44.62	3984	2648	48.12	1.517	28.4	77.6
	115.0	46.31	4073	2542	45.01	1.362	24.9	76.5
	115.0	47.57	4137	2428	41.79	1.208	21.8	75.6
	115.0	48.96	4197	2303	38.27	1.050	18.7	74.5
	115.0	50.26	4246	2169	34.62	0.894	15.7	73.5
	115.0	51.40	4286	2025	30.83	0.743	12.9	72.5
	115.0	52.45	4315	1869	27.26	0.607	10.5	71.5
	115.0	53.35	4336	1702	23.42	0.474	8.2	70.7
	115.0	54.14	4356	1521	19.63	0.355	6.1	70.0
	115.0	57.49	5298	1334	53.71	0.853	12.0	80.1
	115.0	57.51	5262	1121	49.43	0.660	9.4	79.6
	115.0	57.79	5256	900	46.66	0.500	7.1	79.1
	115.0	58.02	5254	676	43.93	0.353	5.0	78.7
	115.0	58.16	5249	423	41.68	0.210	3.0	78.5
	115.0	58.18	5248	155	40.04	0.074	1.1	78.4

DRAWING NO.	PAGE 3 of 8	REV.
	<b>6K581BG</b>	-

# Performance Data



**6K581BG**      REV. -



**Dayton**

**Curve Descriptions:**  
 Motor(1) Test 2 Run 115V 60 Hz 2P CW

- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS
- ▲ SPEED vs HP

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**Motor Ratings:**  
 (1) C063HLM137101 ID: 1  
 6K581BG

DRAWING NO.	PAGE 4 of 8	REV.
6K581BG		-

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

# Performance Data



**6K581BG**      REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: C063HLM137101 6K581BG  
 Motor ID: 1  
 Poles: 2  
 Volts: 115/208-230  
 Frequency: 60  
 HP: 3/4  
 Speed: 3450  
 Phase: 1  
 Protector: AUTO

### Test Conditions

Test Type: Start      Run Cap: 0  
 Test Number: 5      Start Cap: 238µfd 110 VOLTS  
 Poles: 2      Environment: 22.3 Deg C 25 % RH 1005 hPa  
 Volts: 230      Tested: 3/29/2016 10:15:18 AM  
 Hz: 60      Tested By: Sharp, Gerald  
 Rotation: CW      Gear Ratio: 1:1  
 Special Cond:      Bearing Friction: -0.22 Oz-Ft  
 Speed Conn:      Windage Torque: -2.21 Oz-Ft  
 TestBoard: Amtps Performance Fixture #1

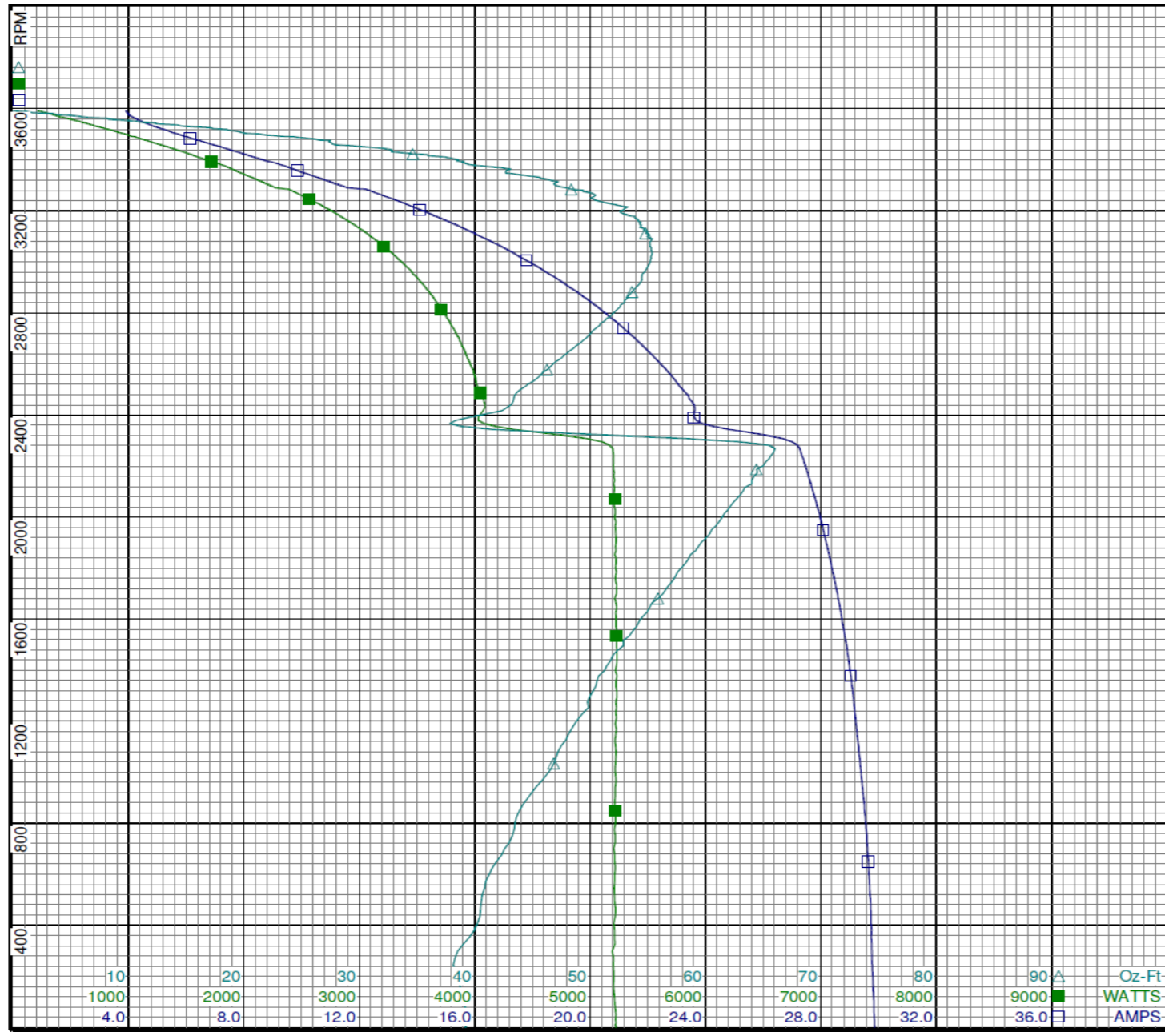
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	29.87	5219	2	39.26	0.001	0.0	76.0
	230.0	29.83	5212	100	38.99	0.046	0.7	76.0
	<b>230.0</b>	<b>29.78</b>	<b>5200</b>	<b>243</b>	<b>38.14</b>	<b>0.111</b>	<b>1.6</b>	<b>75.9</b>
	230.0	29.74	5205	408	40.24	0.195	2.8	76.1
	230.0	29.62	5205	699	42.60	0.355	5.1	76.4
	230.0	29.42	5224	965	45.80	0.526	7.5	77.2
	230.0	29.20	5228	1211	49.03	0.707	10.1	77.8
	230.0	28.97	5232	1437	51.78	0.886	12.6	78.5
	230.0	28.66	5229	1644	55.15	1.080	15.4	79.3
	230.0	28.32	5226	1835	58.52	1.278	18.3	80.2
	230.0	27.95	5217	2011	61.62	1.475	21.1	81.2
	230.0	27.54	5209	2172	64.51	1.668	23.9	82.2
	230.0	26.12	4773	2319	52.02	1.436	22.4	79.4
	230.0	23.52	4081	2453	43.33	1.265	23.1	75.4
	230.0	22.63	3984	2577	46.29	1.420	26.6	76.5
	230.0	21.63	3869	2691	49.38	1.582	30.5	77.8
	230.0	20.56	3737	2795	51.92	1.727	34.5	79.0
	230.0	19.43	3590	2889	53.78	1.850	38.4	80.3
	230.0	18.27	3424	2974	54.93	1.945	42.4	81.5
	230.0	17.02	3233	3053	55.31	2.010	46.4	82.6
	230.0	15.75	3025	3124	54.65	2.032	50.1	83.5
	230.0	14.45	2801	3188	52.89	2.007	53.5	84.3
	230.0	13.17	2567	3245	50.25	1.942	56.4	84.7
	230.0	11.37	2230	3298	47.04	1.847	61.8	85.3
	230.0	10.08	1972	3348	42.71	1.702	64.4	85.1
	230.0	8.77	1697	3395	38.43	1.553	68.3	84.1
	230.0	7.54	1420	3438	32.84	1.344	70.6	81.9
	230.0	6.24	1108	3481	26.08	1.081	72.7	77.2
	230.0	5.12	799	3522	17.34	0.727	67.9	67.8
	230.0	4.23	467	3562	8.10	0.343	54.9	48.0
	230.0	3.90	212	3592	0.00	0.000	0.0	23.6

DRAWING NO.      PAGE 5 of 8      REV.  
**6K581BG**      -

# Performance Data



**6K581BG**      REV. -



**Dayton**<sup>®</sup>

**Curve Descriptions:**  
 Motor(1) Test 5 Start 230V 60 Hz  
 2P CW 238ufd Start

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

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**Motor Ratings:**  
 (1) C063HLM137101 ID: 1  
 6K581BG

DRAWING NO.	PAGE 6 of 8	REV.
	<b>6K581BG</b>	-

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



# Performance Data



<b>6K581BG</b>	REV. -
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## Dayton Manufacturing Company

### Motor Description

### Test Conditions

Model: C063HLM137101 6K581BG	Test Type: Run	Run Cap: 0
Motor ID: 1	Test Number: 6	Start Cap: 238µfd 110 VOLTS
Poles: 2	Poles: 2	Environment: 22.2 Deg C 26 % RH 1001 hPa
Volts: 115/208-230	Volts: 230	Tested: 3/29/2016 2:24:20 PM
Frequency: 60	Hz: 60	Tested By: Sharp, Gerald
HP: 3/4	Rotation: CW	Gear Ratio: 1:1
Speed: 3450	Special Cond:	Bearing Friction: 0.00 Oz-Ft
Phase: 1	Speed Conn:	Windage Torque: -2.08 Oz-Ft
Protector: AUTO	TestBoard: Amps Performance Fixture #1	

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	3.68	139	3584	0.00	0.000	0.0	16.5
	230.0	4.10	490	3547	12.95	0.547	83.2	52.0
<b>18.2 OZ-FT</b>	<b>230.0</b>	<b>4.89</b>	<b>775</b>	<b>3516</b>	<b>18.20</b>	<b>0.762</b>	<b>73.3</b>	<b>68.8</b>
<b>0.75 HP</b>	<b>230.0</b>	<b>4.87</b>	<b>769</b>	<b>3516</b>	<b>17.92</b>	<b>0.750</b>	<b>72.7</b>	<b>68.6</b>
	230.0	5.17	852	3508	20.39	0.852	74.6	71.7
<b>27.4 OZ-FT</b>	<b>230.0</b>	<b>6.26</b>	<b>1141</b>	<b>3472</b>	<b>27.40</b>	<b>1.132</b>	<b>74.0</b>	<b>79.2</b>
	230.0	6.41	1178	3467	29.48	1.217	77.0	79.9
<b>3450 RPM</b>	<b>230.0</b>	<b>6.94</b>	<b>1304</b>	<b>3450</b>	<b>30.67</b>	<b>1.260</b>	<b>72.1</b>	<b>81.7</b>
	230.0	7.71	1481	3425	34.14	1.392	70.1	83.6
	230.0	8.99	1763	3384	40.57	1.634	69.1	85.2
	230.0	10.19	2015	3342	47.08	1.873	69.4	85.9
	230.0	11.53	2281	3292	48.21	1.889	61.8	86.0
	230.0	13.24	2598	3245	50.79	1.962	56.3	85.3
	230.0	14.51	2827	3190	53.60	2.036	53.7	84.7
	230.0	15.73	3037	3132	58.41	2.178	53.5	84.0
	230.0	16.92	3233	3069	54.55	1.993	46.0	83.1
<b>BDT OZ-FT</b>	<b>230.0</b>	<b>17.62</b>	<b>3344</b>	<b>3027</b>	<b>60.40</b>	<b>2.176</b>	<b>48.5</b>	<b>82.5</b>
	230.0	18.09	3409	2999	54.64	1.951	42.7	81.9
	230.0	19.19	3571	2923	54.67	1.902	39.7	80.9
	230.0	20.19	3702	2844	54.14	1.833	36.9	79.7
	230.0	21.17	3832	2755	51.30	1.682	32.8	78.7
	230.0	22.10	3939	2658	49.27	1.559	29.5	77.5
	230.0	22.95	4022	2555	46.27	1.407	26.1	76.2
	230.0	23.65	4087	2441	43.01	1.250	22.8	75.1
	230.0	24.38	4156	2318	39.52	1.090	19.6	74.1
	230.0	25.04	4202	2185	35.89	0.934	16.6	73.0
	230.0	25.63	4241	2041	32.09	0.780	13.7	71.9
	230.0	26.17	4273	1887	28.27	0.635	11.1	71.0
	230.0	26.64	4300	1719	24.34	0.498	8.6	70.2
	230.0	27.06	4313	1541	20.66	0.379	6.6	69.3
	230.0	29.06	5252	1352	52.68	0.848	12.0	78.6
	230.0	29.12	5221	1143	48.35	0.658	9.4	77.9
	230.0	29.27	5214	925	45.55	0.502	7.2	77.5
	230.0	29.39	5206	693	42.46	0.350	5.0	77.0
	230.0	29.47	5196	450	40.45	0.217	3.1	76.7
	230.0	29.51	5198	185	39.02	0.086	1.2	76.6

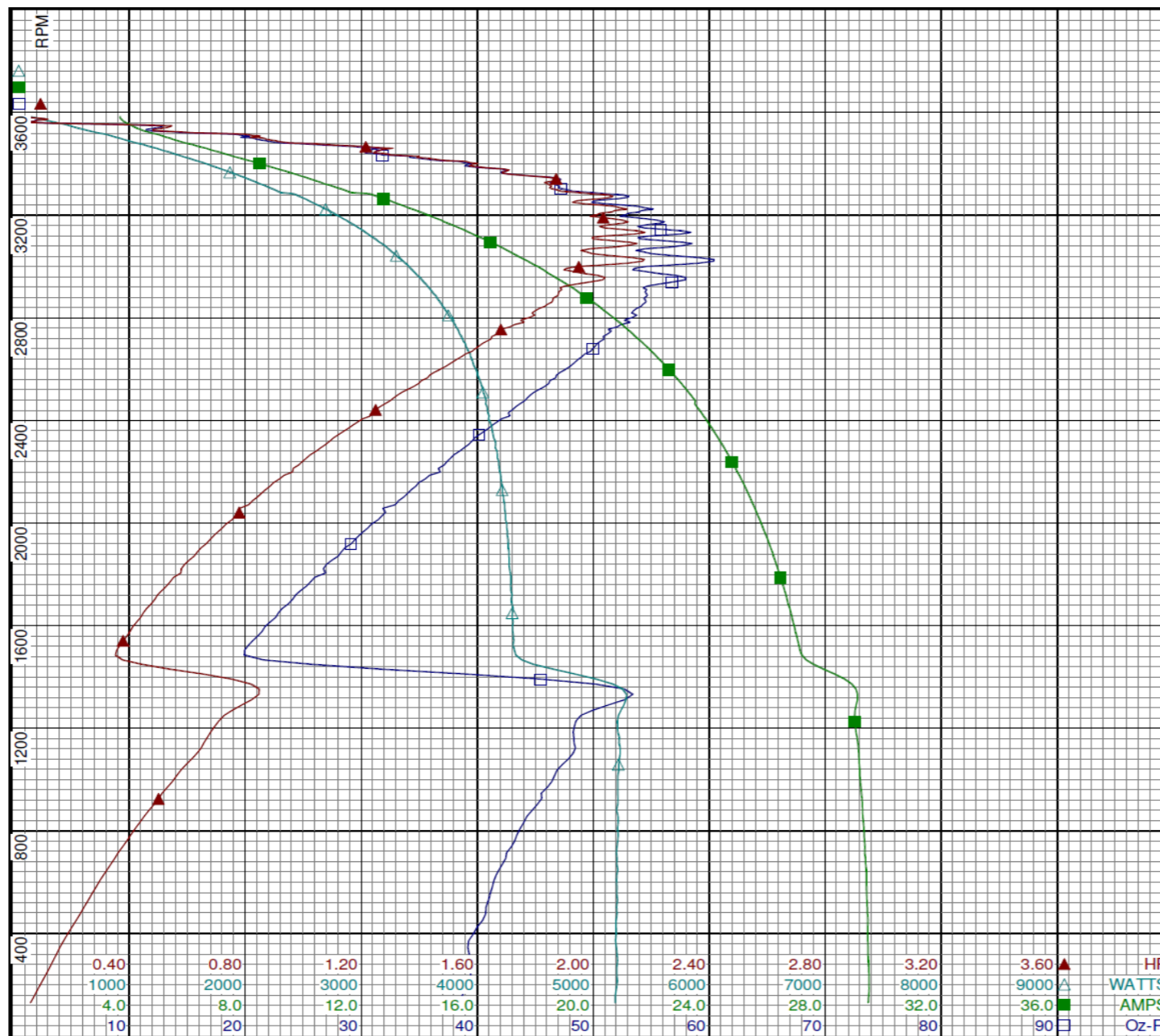
DRAWING NO.	PAGE 7 of 8	REV.
	<b>6K581BG</b>	-

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

# Performance Data



**6K581BG**      REV. -



**Dayton**

Curve Descriptions: Motor(1) Test 6  
Run 230V 60 Hz 2P CW

- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS
- ▲ SPEED vs HP

Motor Ratings:  
(1) C063HLM173101 ID: 1  
6K581BG

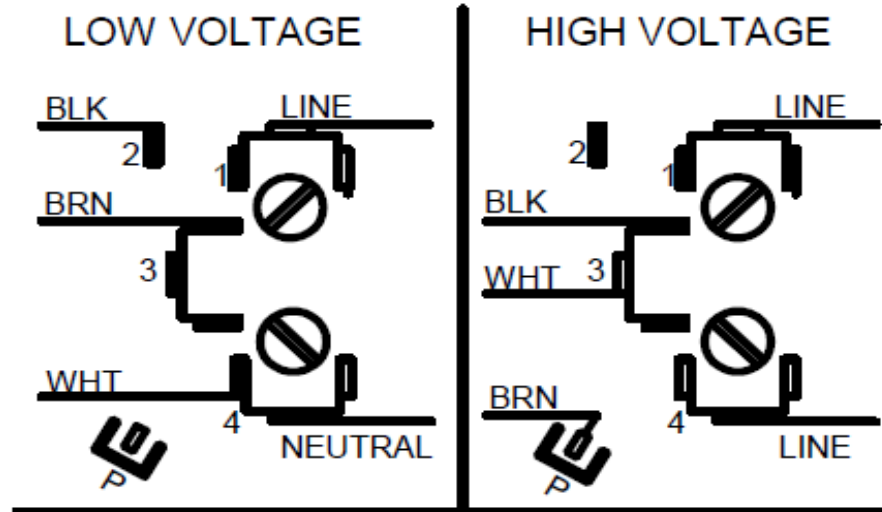
DRAWING NO.      PAGE 8 of 8      REV.  
6K581BG      -

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

6K581BG

REV.  
-

## CONNECTIONS



MOTOR IS NON-REVERSIBLE  
CCW ROTATION SHAFT END  
SUPPLY CONNECTIONS, USE WIRES SIZED  
ON THE BASIS OF 60°C AMPACITY AND  
RATED MINIMUM 90°C.

DRAWING NO.	PAGE 1 of 1	REV.
6K581BG		-

**Dayton**<sup>®</sup>**JET PUMP MOTOR**

HP: 3/4

VOLTS: 115/208-230

AMPS: 11.0/5.4-5.5

RPM: 3450

DUTY: CONT

SF: 1.5

KVA CODE: L

ENCL: ODP

THERMALLY PROTECTED: AUTO

MFG. NO. PROT. CODE: 

MTR REF: C63CXHLM-1371



Part No 6K581BG

PH: 1

HZ: 60

FR: 56J

INS CL: B

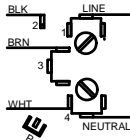
AMB: 40 °C

SFA: 14.0/7.3-7.0

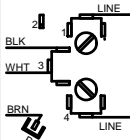
AVG. F.L.  
EFF.**Disconnect Power Before Making Any  
Electrical Connections or Changes**

## CONNECTIONS

LOW VOLTAGE



HIGH VOLTAGE

**MOTOR IS NON-REVERSIBLE  
CCW ROTATION SHAFT END  
SUPPLY CONNECTIONS, USE WIRES SIZED  
ON THE BASIS OF 60°C AMPACITY AND  
RATED MINIMUM 90°C.**

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

Made in Mexico