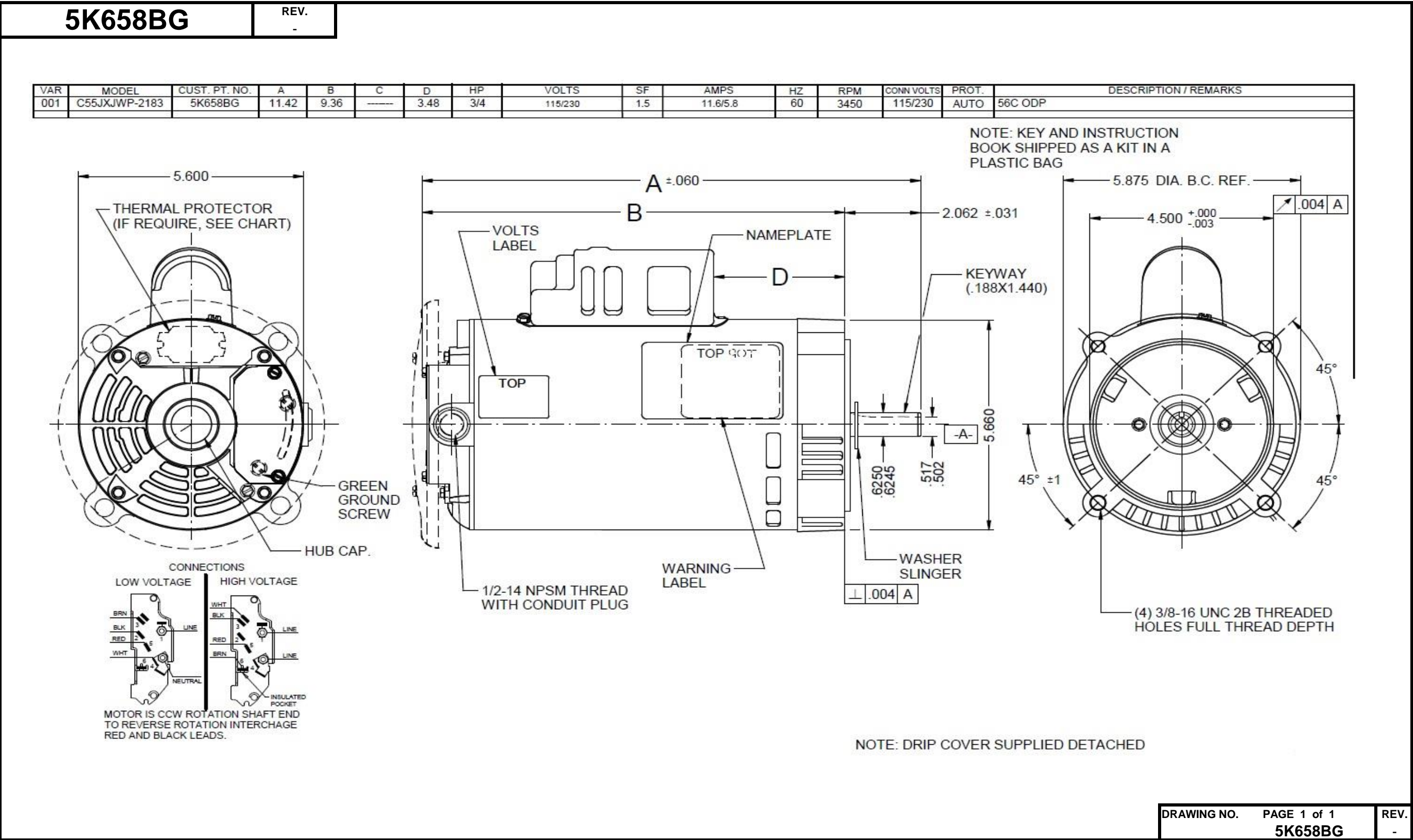


Dimensional Drawing



# Performance Data



**5K658BG**

REV.  
-

## MOTOR PERFORMANCE

HP:	3/4							
Poles:	2							
No. of Speeds:	1							
Volts:	115/230	115	230					
HZ:	60	60	60					
Service Factor:	1.5							
Efficiency:	@ Rated Load	64.7	65.1					
Power Factor:	@ Rated Load	70.0	69.7					
Amps:	@ No Load							
	@ Rated Load	10.97	5.5					
	@ Service Factor	13.5	6.8					
	@ Locked Rotor	63.1	32.2					
RPM:	@ Rated Load	3524	3519					
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	57.1	55.6					
	Locked Rotor	32.01	30.1					
	Pull-Up	28.7	26.9					
	Rated Load	18.26	18.26					
	Service Factor	27.4	27.4					
Watts:	Rated Load	883	877					
KVA Code:	L	L	L					
Temperature Rise:	@ Rated Load	NA	NA					
	@ Service Factor	53.7	52.6					
Thermal Protector:	Trip Temp (°C)	147.7	160.8					
Winding Material:	Start (Auxiliary)	Al	Al					
	Run (Main)	Cu	Cu					
Capacitor(s):	Start (MFD / Volts)	198mFd & 110 V						
	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  
5K658BG

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

# Performance Data

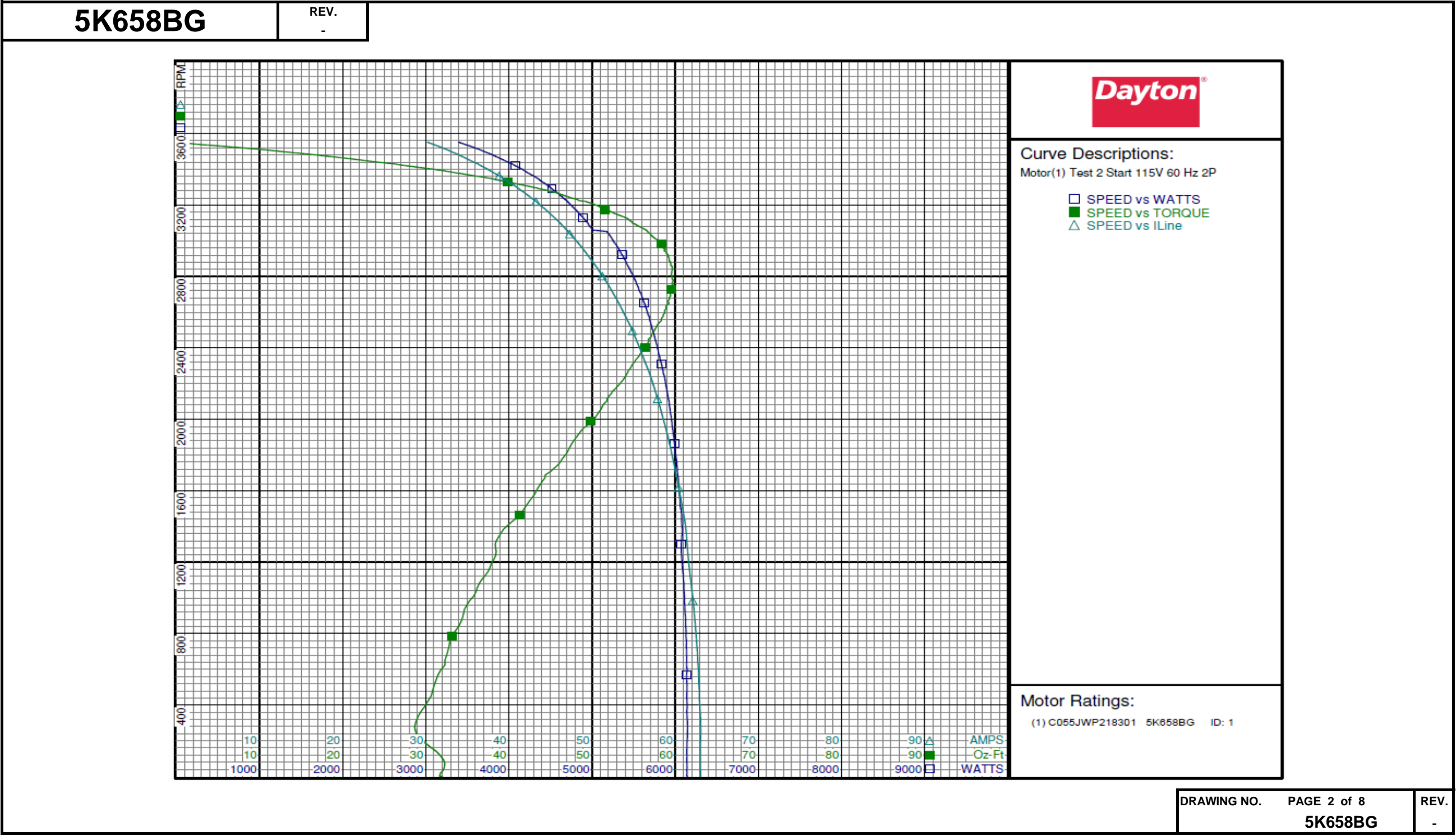


5K658BG		REV. -												
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model: C055JWP218301 5K658BG				Test Type: Start		Run Cap: 0								
Motor ID: 1				Test Number: 2		Start Cap: 198µfd								
Poles: 2				Poles: 2		Environment:								
Volts: 115/230				Volts: 115		Tested: 3/24/2004 1:55:36 PM								
Frequency: 60				Hz: 60		Tested By: Clausner, Chris								
HP: 3/4				Rotation:		Gear Ratio: 1:1								
Speed: 3450				Special Cond:		Bearing Friction: -0.18 Oz-Ft								
Phase: 1				Speed Conn:		Windage Torque: -1.77 Oz-Ft								
Protector: AUTO				TestBoard:		Amps Performance		Fixture #3						
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	106.3	91.0	63.11	59.50	8.449	6148	0	32.01	0.000	0.0	84.7	246.2
		115.0	106.7	90.5	63.04	59.40	8.410	6144	49	32.20	0.019	0.2	84.7	246.4
PUT	OZ-FT	115.0	108.7	88.8	63.09	59.28	8.237	6150	276	28.65	0.094	1.1	84.8	246.2
		115.0	108.8	88.5	63.07	59.26	8.210	6147	305	28.79	0.105	1.3	84.8	246.0
		115.0	111.2	86.2	62.78	58.77	8.007	6145	597	31.80	0.226	2.7	85.1	246.3
		115.0	113.3	84.4	62.40	58.17	7.832	6126	862	34.19	0.351	4.3	85.4	246.1
		115.0	115.4	82.1	61.87	57.48	7.601	6098	1103	36.74	0.482	5.9	85.7	245.4
		115.0	118.4	79.9	61.41	56.79	7.380	6078	1322	38.51	0.606	7.4	86.1	245.0
		115.0	121.5	79.0	60.79	55.89	7.296	6059	1523	42.20	0.765	9.4	86.7	245.1
		115.0	124.5	77.5	60.03	54.92	7.159	6025	1707	45.00	0.914	11.3	87.3	245.0
		115.0	127.6	76.2	59.22	53.86	7.032	5987	1881	47.82	1.071	13.3	87.9	244.7
		115.0	131.1	75.2	58.34	52.75	6.931	5939	2041	50.85	1.236	15.5	88.5	244.5
		115.0	134.6	74.4	57.40	51.58	6.856	5891	2188	53.13	1.384	17.5	89.2	244.3
		115.0	138.6	73.9	56.36	50.31	6.809	5828	2322	55.15	1.525	19.5	89.9	244.5
		115.0	142.2	73.8	55.38	49.12	6.799	5766	2437	56.86	1.650	21.3	90.5	244.2
		115.0	146.5	74.2	54.28	47.75	6.839	5695	2552	58.34	1.773	23.2	91.2	244.6
		115.0	151.0	75.1	53.08	46.38	6.926	5619	2659	59.07	1.870	24.8	92.0	244.7
		115.0	155.8	76.5	51.87	44.94	7.059	5535	2757	59.77	1.962	26.4	92.8	244.8
		115.0	160.6	78.4	50.61	43.46	7.234	5446	2846	59.64	2.021	27.7	93.6	244.7
		115.0	165.6	80.9	49.32	41.95	7.466	5349	2928	58.93	2.054	28.6	94.3	244.8
		115.0	170.9	84.0	48.01	40.41	7.763	5250	3003	57.93	2.071	29.4	95.1	245.3
		115.0	176.3	87.4	46.68	38.86	8.098	4989	3072	56.00	2.048	30.6	92.9	245.8
		115.0	181.6	91.3	45.33	37.30	8.472	4879	3135	53.70	2.004	30.6	93.6	246.2
		115.0	187.1	95.5	43.93	35.71	8.887	4760	3192	50.83	1.932	30.3	94.2	246.9
		115.0	192.6	99.9	42.51	34.11	9.340	4638	3246	47.09	1.820	29.3	94.9	247.9
		115.0	197.8	104.6	41.05	32.51	9.782	4504	3294	43.30	1.698	28.1	95.4	248.1
		115.0	203.1	109.3	39.58	30.86	10.262	4367	3340	38.57	1.534	26.2	95.9	249.1
		115.0	208.1	114.3	38.01	29.12	10.767	4213	3383	33.14	1.335	23.6	96.4	250.0
		115.0	213.0	119.0	36.46	27.41	11.264	4059	3424	26.94	1.098	20.2	96.8	251.1
		115.0	217.8	124.0	34.75	25.61	11.784	3883	3462	20.11	0.829	15.9	97.2	252.1
		115.0	222.8	129.1	32.97	23.71	12.344	3696	3500	12.39	0.516	10.4	97.5	253.6
		115.0	227.3	134.0	31.00	21.62	12.886	3482	3537	3.14	0.132	2.8	97.7	255.0
		115.0	228.8	135.8	30.19	20.76	13.121	3394	3551	0.00	0.000	0.0	97.8	256.4
DRAWING NO.										PAGE 1 of 8		REV.		
5K658BG														

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



Performance Data



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

# Performance Data



5K658BG

REV.  
-

Dayton Manufacturing Company

Motor Description				Test Conditions				
Model:	C055JWP218301 5K658BG			Test Type:	Run	Run Cap:	0	
Motor ID:	1			Test Number:	3	Start Cap:	198µfd	
Poles:	2			Poles:	2	Environment:		
Volts:	115/230			Volts:	115	Tested:	3/24/2004 1:45:55 PM	
Frequency:	60			Hz:	60	Tested By:	Clausner, Chris	
HP:	3/4			Rotation:		Gear Ratio:	1:1	
Speed:	3450			Special Cond:		Bearing Friction:	-0.21 Oz-Ft	
Phase:	1			Speed Conn:		Windage Torque:	-2.05 Oz-Ft	
Protector:	AUTO			TestBoard:	Amps Performance	Fixture #3		

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	8.78	226	3582	0.00	0.000	0.0	22.3
	115.0	9.89	691	3541	13.13	0.553	59.7	60.8
18.26 OZ-FT	115.0	10.97	883	3524	18.26	0.766	64.7	70.0
	115.0	12.57	1122	3502	24.49	1.021	67.9	77.7
27.4 OZ-FT	115.0	13.49	1245	3490	27.40	1.138	68.2	80.3
1.125 HP	115.0	13.39	1232	3491	27.07	1.125	68.1	80.0
	115.0	15.76	1528	3461	33.78	1.392	68.0	84.3
3450 RPM	115.0	16.60	1627	3450	35.89	1.474	67.6	85.2
	115.0	19.00	1903	3419	41.45	1.687	66.1	87.1
	115.0	22.22	2255	3376	46.83	1.882	62.3	88.2
	115.0	25.37	2593	3329	51.15	2.027	58.3	88.9
	115.0	28.33	2886	3281	54.10	2.113	54.6	88.6
	115.0	31.28	3169	3228	56.03	2.153	50.7	88.1
	115.0	34.02	3420	3171	56.77	2.143	46.7	87.4
BDT OZ-FT	115.0	36.69	3651	3111	57.10	2.114	43.2	86.5
	115.0	36.69	3651	3111	57.10	2.114	43.2	86.5
	115.0	39.24	3865	3044	56.20	2.037	39.3	85.7
	115.0	41.65	4054	2972	54.67	1.935	35.6	84.6
	115.0	43.92	4224	2894	52.65	1.814	32.0	83.6
	115.0	46.06	4375	2809	50.43	1.686	28.8	82.6
	115.0	48.03	4649	2717	47.19	1.526	24.5	84.2
	115.0	49.88	4767	2615	43.89	1.366	21.4	83.1
	115.0	51.58	4865	2506	40.44	1.207	18.5	82.0
	115.0	53.14	4958	2388	36.79	1.046	15.7	81.1
	115.0	54.61	5033	2254	32.62	0.875	13.0	80.1
	115.0	55.89	5099	2113	28.62	0.720	10.5	79.3
	115.0	57.04	5147	1961	24.64	0.575	8.3	78.5
	115.0	57.97	5185	1810	20.95	0.451	6.5	77.8
	115.0	58.88	5220	1635	16.80	0.327	4.7	77.1
	115.0	59.69	5253	1452	12.79	0.221	3.1	76.5
	115.0	60.34	5264	1252	8.97	0.134	1.9	75.9
	115.0	60.67	5276	1059	8.02	0.101	1.4	75.6
	115.0	61.12	5299	828	3.68	0.036	0.5	75.4
	115.0	61.42	5305	584	0.69	0.005	0.1	75.1

DRAWING NO.

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5K658BG

REV.

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DRAWING NO.	PAGE 3 of 8	REV.
	5K658BG	-

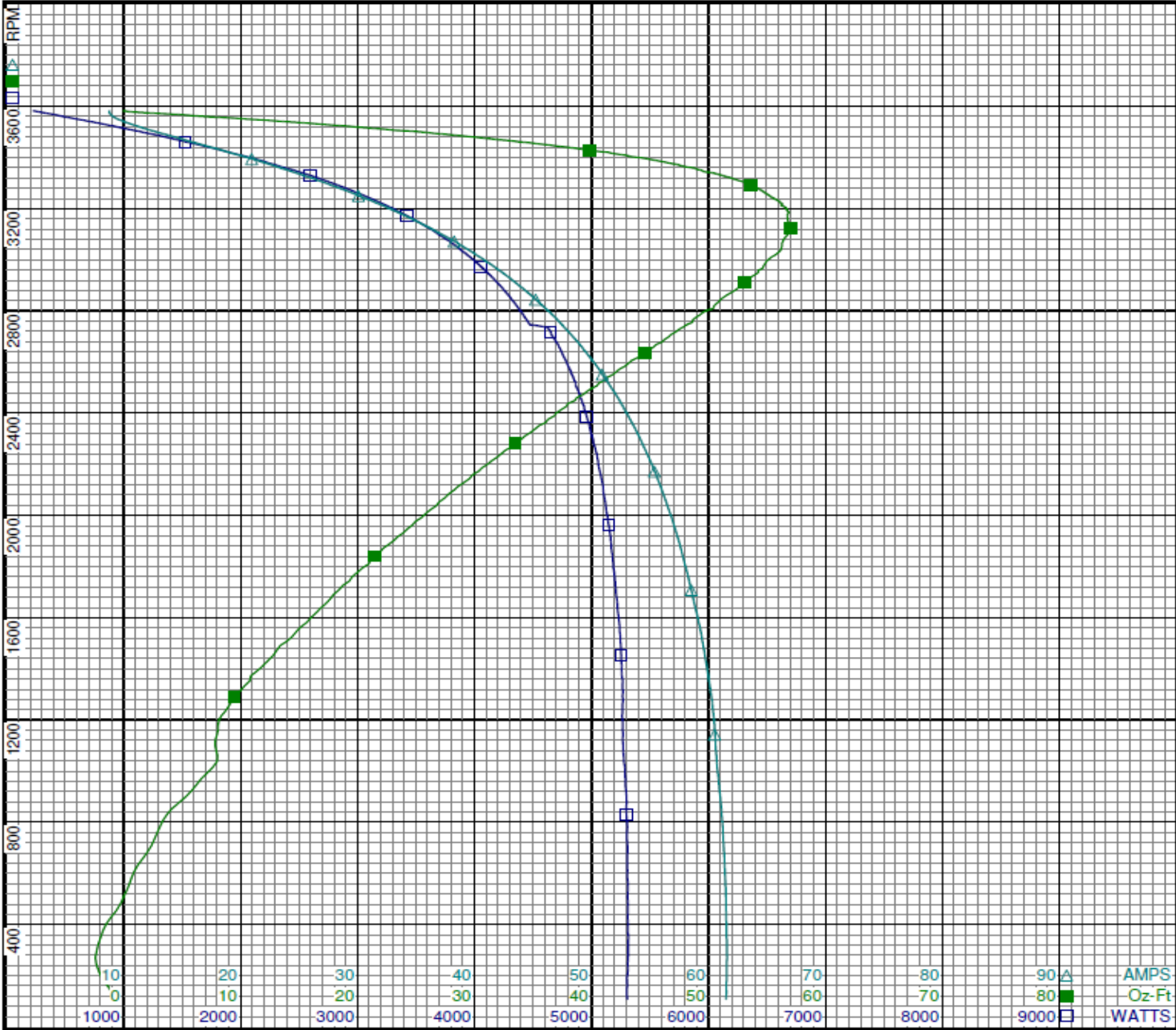
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



5K658BG

REV.  
-



Curve Descriptions:  
Motor(1) Test 3 Run 115V 60 Hz 2P

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

Motor Ratings:  
(1) C055JWP218301 5K658BG ID: 1

# Performance Data



5K658BG		REV. -												
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model:	C055JWP218301 5K658BG			Test Type:	Start		Run Cap:	0						
Motor ID:	1			Test Number:	6		Start Cap:	198µfd						
Poles:	2			Poles:	2		Environment:							
Volts:	115/230			Volts:	230		Tested:	3/24/2004 2:17:59 PM						
Frequency:	60			Hz:	60		Tested By:	Clausner, Chris						
HP:	3/4			Rotation:			Gear Ratio:	1:1						
Speed:	3450			Special Cond:			Bearing Friction:	-0.17 Oz-Ft						
Phase:	1			Speed Conn:			Windage Torque:	-1.50 Oz-Ft						
Protector:	AUTO			TestBoard:	Amps Performance		Fixture #3							
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	210.5	88.1	32.23	28.53	8.118	6000	1	30.09	0.000	0.0	80.9	244.5	
	230.0	211.1	87.6	32.19	28.46	8.071	5995	50	31.10	0.018	0.2	81.0	244.4	
	230.0	213.5	86.0	32.16	28.30	7.906	5987	275	26.94	0.088	1.1	81.0	244.0	
	230.0	213.8	85.7	32.15	28.28	7.887	5985	304	27.05	0.098	1.2	80.9	244.3	
	230.0	217.1	83.4	32.00	27.91	7.666	5975	595	30.35	0.215	2.7	81.2	243.9	
	230.0	220.4	81.5	31.79	27.48	7.493	5962	861	33.26	0.341	4.3	81.5	243.8	
	230.0	222.9	79.2	31.48	27.04	7.269	5928	1102	35.48	0.466	5.9	81.9	243.5	
	230.0	226.9	76.2	31.21	26.59	6.979	5898	1321	37.33	0.587	7.4	82.2	243.0	
	230.0	231.1	74.5	30.89	26.00	6.823	5877	1523	41.09	0.745	9.5	82.7	242.9	
	230.0	237.0	72.8	30.61	25.38	6.656	5853	1708	43.37	0.882	11.2	83.1	242.4	
	230.0	244.9	77.3	30.59	24.55	7.090	5907	1881	43.70	0.979	12.4	84.0	243.3	
	230.0	241.5	78.8	29.81	23.80	7.232	5857	2040	47.97	1.165	14.8	85.4	243.6	
	230.0	245.3	75.0	29.18	23.16	6.863	5753	2188	50.60	1.318	17.1	85.7	242.9	
	230.0	249.3	73.7	28.59	22.42	6.737	5679	2322	52.51	1.452	19.1	86.4	242.6	
	230.0	253.2	73.3	28.05	21.71	6.702	5615	2437	54.36	1.577	21.0	87.0	242.7	
	230.0	257.8	73.4	27.44	20.92	6.715	5540	2552	55.37	1.682	22.7	87.8	242.5	
	230.0	262.4	74.1	26.81	20.11	6.781	5455	2658	56.07	1.774	24.3	88.5	242.8	
	230.0	267.3	75.3	26.16	19.29	6.897	5362	2756	56.76	1.863	25.9	89.1	242.8	
	230.0	272.5	77.2	25.49	18.46	7.073	5273	2845	56.39	1.910	27.0	89.9	243.1	
	230.0	277.7	79.7	24.82	17.62	7.315	5172	2928	55.57	1.937	27.9	90.6	243.5	
	230.0	282.9	82.6	24.13	16.78	7.594	5067	3003	54.36	1.944	28.6	91.3	243.8	
	230.0	288.3	86.1	23.43	15.96	7.923	4952	3071	52.17	1.907	28.7	91.9	244.2	
	230.0	293.7	89.9	22.71	15.15	8.296	4839	3134	49.71	1.855	28.6	92.6	244.7	
	230.0	298.9	93.9	21.99	14.35	8.690	4714	3192	46.88	1.782	28.2	93.2	245.4	
	230.0	303.8	98.2	21.26	13.58	9.111	4584	3245	42.89	1.657	27.0	93.8	246.0	
	230.0	308.9	102.6	20.51	12.82	9.533	4449	3294	38.97	1.529	25.6	94.3	246.5	
	230.0	313.8	107.1	19.75	12.09	9.987	4305	3340	34.19	1.359	23.6	94.8	247.3	
	230.0	318.5	111.8	18.95	11.39	10.463	4151	3383	28.65	1.154	20.7	95.2	248.3	
	230.0	323.5	116.8	18.13	10.68	10.970	3987	3424	22.46	0.915	17.1	95.6	249.2	
	230.0	327.8	121.5	17.30	10.05	11.456	3817	3462	16.05	0.661	12.9	95.9	250.2	
	230.0	332.2	126.3	16.39	9.41	11.975	3627	3500	8.15	0.340	7.0	96.2	251.4	
	230.0	336.2	131.1	15.45	8.88	12.485	3423	3537	0.00	0.000	0.0	96.3	252.6	
											DRAWING NO.	PAGE 5 of 8		REV.
											5K658BG			-

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

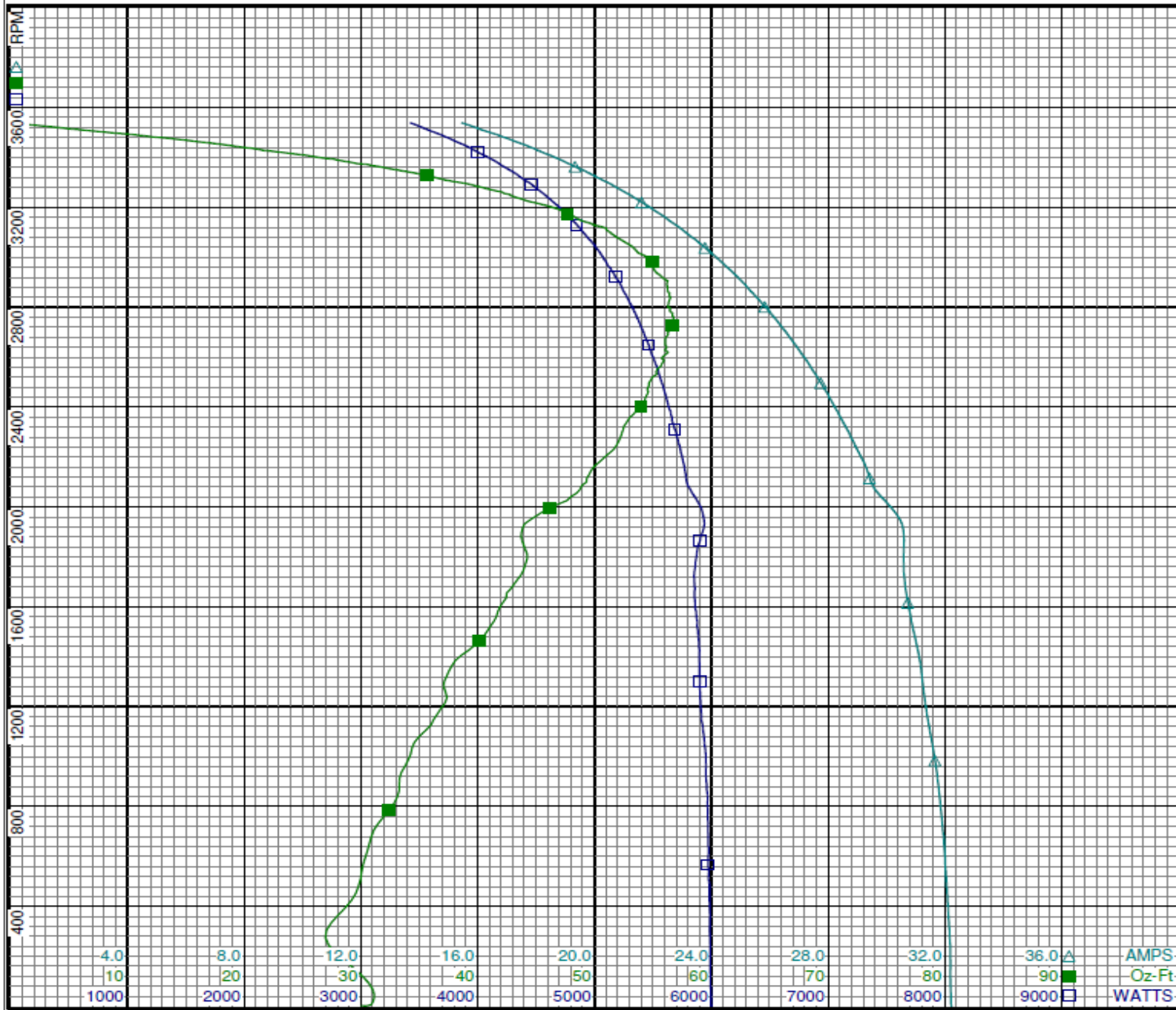


Performance Data



5K658BG

REV.  
-



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

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

Motor Ratings:  
(1) C055JWP218301 5K658BG ID: 1



# Performance Data



5K658BG		REV.						
		-						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model:	C055JWP218301	5K658BG	Test Type:	Run	Run Cap:	0		
Motor ID:	1		Test Number:	7	Start Cap:	198µfd		
Poles:	2		Poles:	2	Environment:			
Volts:	115/230		Volts:	230	Tested:	3/24/2004 2:04:30 PM		
Frequency:	60		Hz:	60	Tested By:	Clausner, Chris		
HP:	3/4		Rotation:		Gear Ratio:	1:1		
Speed:	3450		Special Cond:		Bearing Friction:	-0.19 Oz-Ft		
Phase:	1		Speed Conn:		Windage Torque:	-1.57 Oz-Ft		
Protector:	AUTO		TestBoard:	Amps Performance	Fixture #3			
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.42	245	3580	0.00	0.000	0.0	24.1
	230.0	4.90	665	3541	12.42	0.524	58.7	59.0
18.26 OZ-FT	230.0	5.47	877	3519	18.26	0.765	65.1	69.7
	230.0	6.05	1056	3501	22.95	0.956	67.6	75.8
27.4 OZ-FT	230.0	6.80	1255	3478	27.40	1.134	67.4	80.3
1.125 HP	230.0	6.77	1247	3479	27.16	1.125	67.3	80.1
	230.0	7.42	1417	3460	31.34	1.291	68.0	83.0
3450 RPM	230.0	7.78	1507	3450	33.30	1.368	67.7	84.2
	230.0	8.88	1764	3419	38.25	1.557	65.8	86.4
	230.0	10.35	2094	3375	44.06	1.770	63.1	88.0
	230.0	11.77	2405	3330	48.45	1.920	59.6	88.9
	230.0	13.19	2694	3281	51.40	2.007	55.6	88.8
	230.0	14.57	2964	3228	54.10	2.079	52.3	88.5
	230.0	15.91	3220	3172	54.94	2.075	48.1	88.0
	230.0	17.17	3450	3111	55.19	2.044	44.2	87.4
BDT OZ-FT	230.0	17.80	3560	3078	55.58	2.037	42.7	86.9
	230.0	18.42	3666	3045	55.09	1.997	40.6	86.5
	230.0	19.61	3863	2972	54.20	1.917	37.0	85.7
	230.0	20.72	4042	2894	52.51	1.809	33.4	84.8
	230.0	21.79	4201	2810	50.32	1.683	29.9	83.8
	230.0	22.78	4343	2716	47.75	1.544	26.5	82.9
	230.0	23.73	4474	2615	44.61	1.389	23.2	82.0
	230.0	24.59	4585	2506	41.34	1.233	20.1	81.1
	230.0	25.40	4682	2385	37.40	1.062	16.9	80.1
	230.0	26.15	4768	2253	33.79	0.906	14.2	79.3
	230.0	26.81	4839	2113	30.05	0.756	11.7	78.5
	230.0	27.38	4895	1964	26.37	0.617	9.4	77.7
	230.0	27.89	4943	1803	22.17	0.476	7.2	77.1
	230.0	28.35	4985	1636	18.47	0.360	5.4	76.5
	230.0	28.77	5020	1452	14.55	0.251	3.7	75.8
	230.0	29.11	5041	1258	10.44	0.156	2.3	75.3
	230.0	29.30	5053	1057	9.05	0.114	1.7	75.0
	230.0	29.52	5076	827	4.95	0.049	0.7	74.8
	230.0	29.68	5084	582	1.73	0.012	0.2	74.5
	230.0	29.75	5089	325	-1.41	-0.005	0.0	74.4

DRAWING NO.

PAGE 7 of 8

REV.

5K658BG

DRAWING NO.	PAGE 7 of 8	REV.
	5K658BG	-

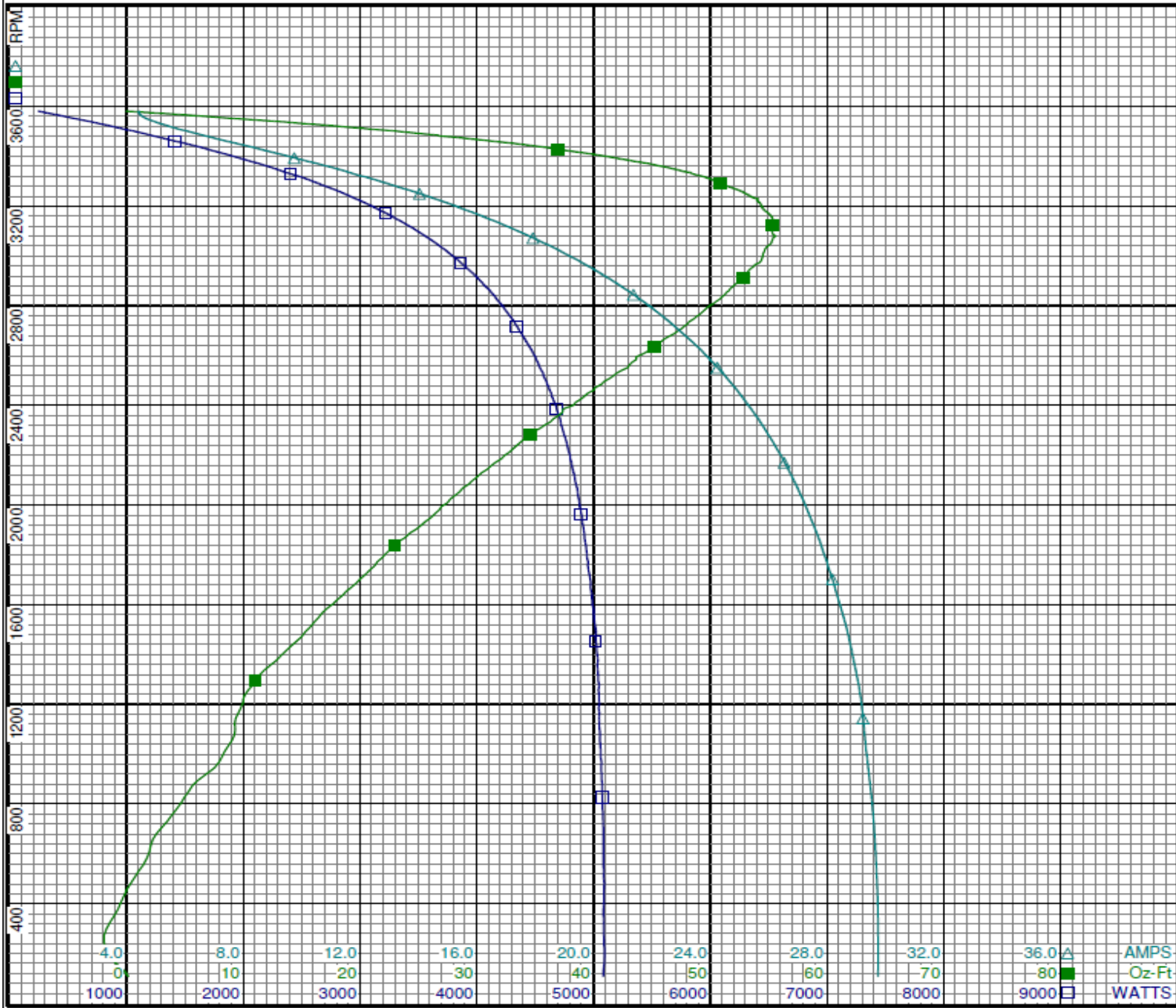
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



5K658BG

REV.  
-



Curve Descriptions:  
Motor(1) Test 7 Run 230V 60 Hz 2P

□ SPEED vs WATTS  
■ SPEED vs TORQUE  
△ SPEED vs ILine

Motor Ratings:  
(1) C055JWP218301 5K658BG ID: 1

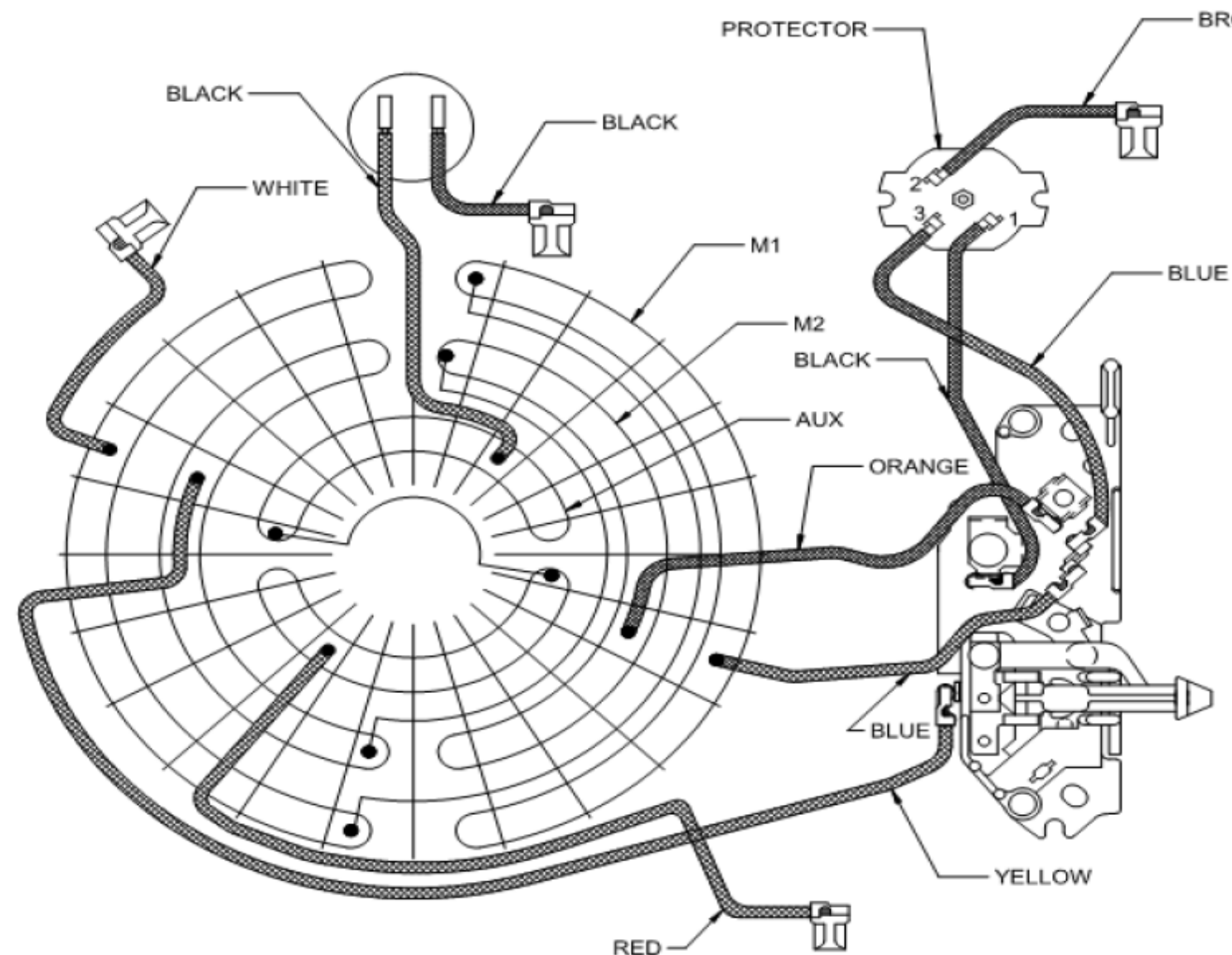
## Wiring Diagram



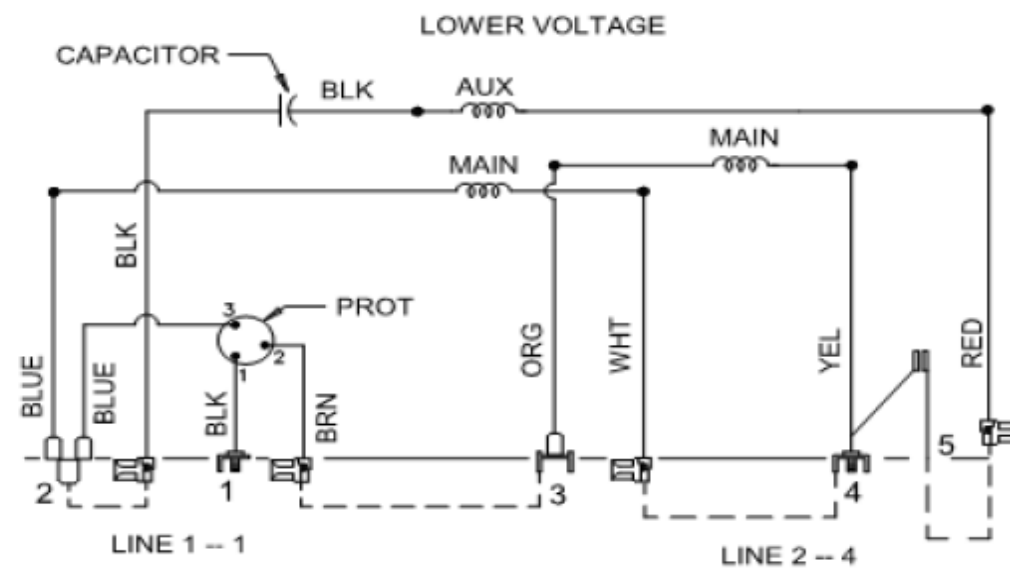
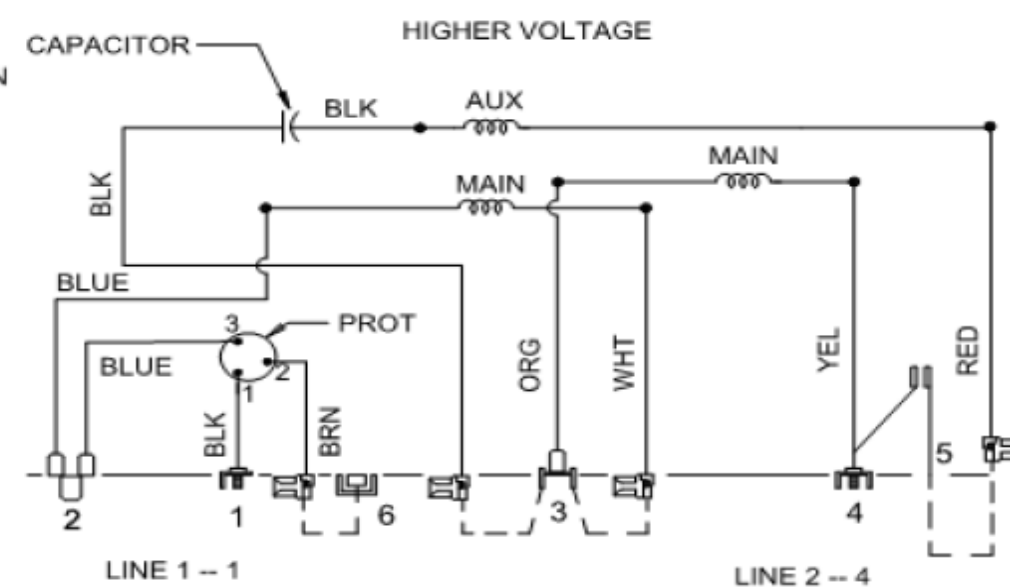
# 5K658BG

REV.

■



ROTATION: CW. SWITCH END - REVERSIBLE  
TO REVERSE ROTATION INTERCHANGE RED &  
BLACK LEADS.



DRAWING NO.	PAGE 1 of 1	REV.
	5K658BG	-

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

**Dayton**<sup>®</sup>

# JET PUMP MOTOR

**HP:** 3/4  
**VOLTS:** 115/230

**AMPS:** 11.6/5.8

**RPM:** 3450

**DUTY:** CONT

**SF:** 1.5

**KVA CODE:** P

**ENCL:** ODP

**THERMALLY PROTECTED:** AUTO

**MFG. NO.:**   **PROT. CODE:**  00310

**MTR REF:** C55JXJWP-2183

**PH:** 1

**HZ:** 60

**FR:** 56C

**INS CL:** B

**AMB:** 40 °C

**SFA:** 14.8/7.4

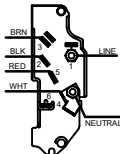
AVG. F.L.  
EFF.

**Part No** 5K658BG

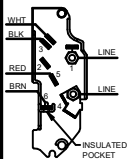
**Disconnect Power Before Making  
Any Electrical Connections or Changes**

## CONNECTIONS

LOW VOLTAGE



HIGH VOLTAGE



**MOTOR IS CCW ROTATION SHAFT END  
TO REVERSE ROTATION INTERCHANGE  
RED AND BLACK LEADS.**



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

Made in Mexico