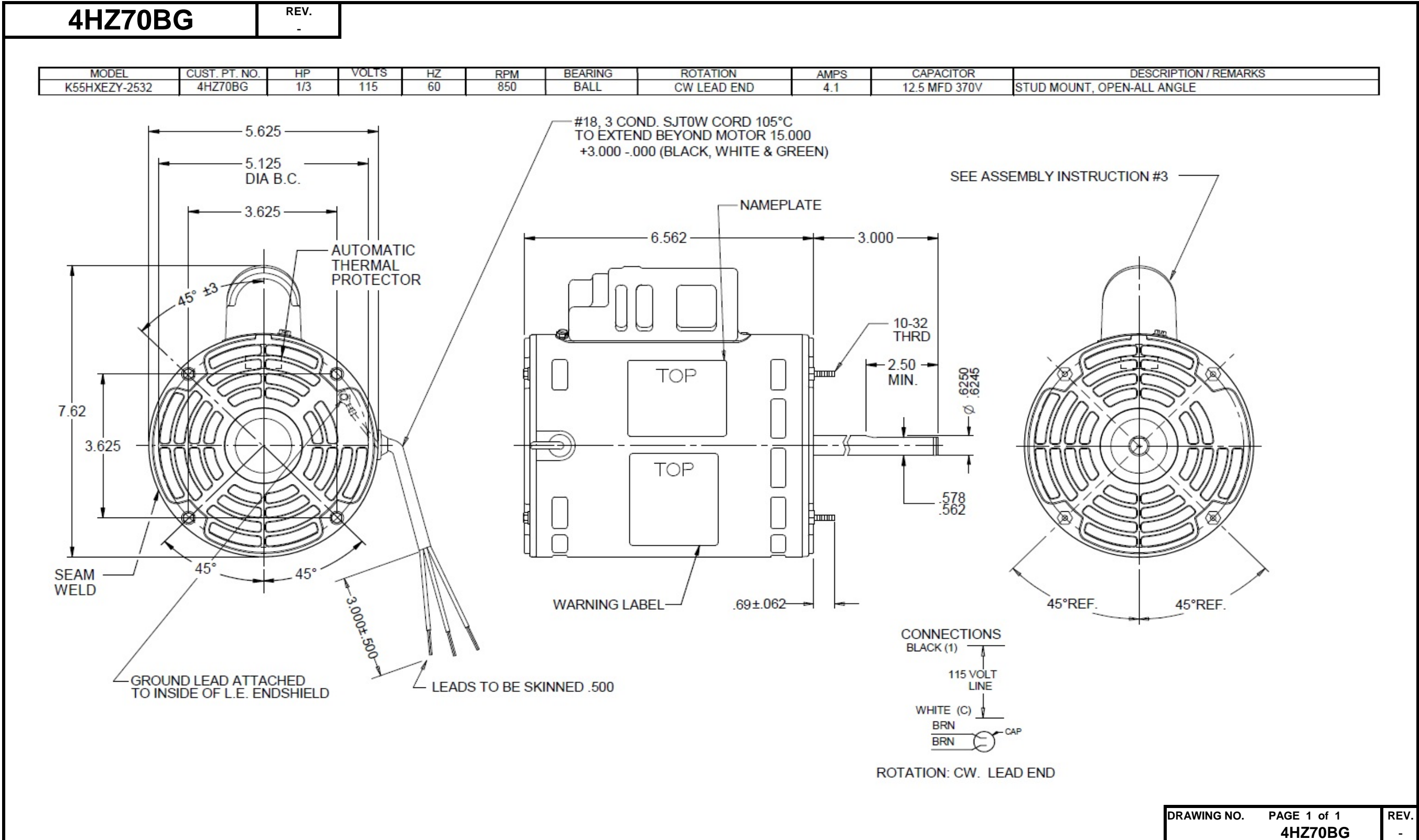


Dimensional Drawing



Performance Data



4HZ70BG

REV.
-

MOTOR PERFORMANCE

HP:	1/3								
Poles:	8								
Ambient (°C)	40								
Altitude (FASL):									
No. of Speeds:	1								
Volts:	115	115							
HZ:	60	60							
Service Factor:	1								
Efficiency:	@ Rated Load								
Power Factor:	@ Rated Load								
Amps:	@ No Load								
	@ Rated Load	4.1							
	@ Service Factor	4.1							
	@ Locked Rotor	9.2							
RPM:	@ Rated Load	850							
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	44.5							
	Locked Rotor	8.2							
	Pull-Up	7.8							
	Rated Load	32.6							
	Service Factor	32.6							
Watts:	@ Rated Load	400							
KVA Code:									
Temperature Rise:	@ Rated Load	OAO							
	@ Service Factor	N/A							
Thermal Protector:	Trip Temp (°C)	N/A							
Winding Material:	Start (Auxiliary)	CU							
	Run (Main)	CU							
Capacitor(s):	Start (MFD / Volts)							N/A	
	No. of Start Capacitors								
	Run (MFD / Volts)							12.5 / 370	
	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: Oz.Ft. / Lb.In. (Circle One)	Breakdown								
	Locked Rotor								
	Pull-Up								
	Rated Load								
	Service Factor								
Watts:	@ Rated Load								
Temperature Rise:	@ Rated Load								
	@ Service Factor								

DRAWING NO. PAGE 1 of 1 REV.
4HZ70BG -

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

4HZ70BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: K055EZY253201 4HZ70BG
 Motor ID: Motor 1
 Poles: 8
 Volts: 115
 Frequency: 60
 HP: 0.333
 Speed: 850
 Phase: 1
 Protector: AUTO

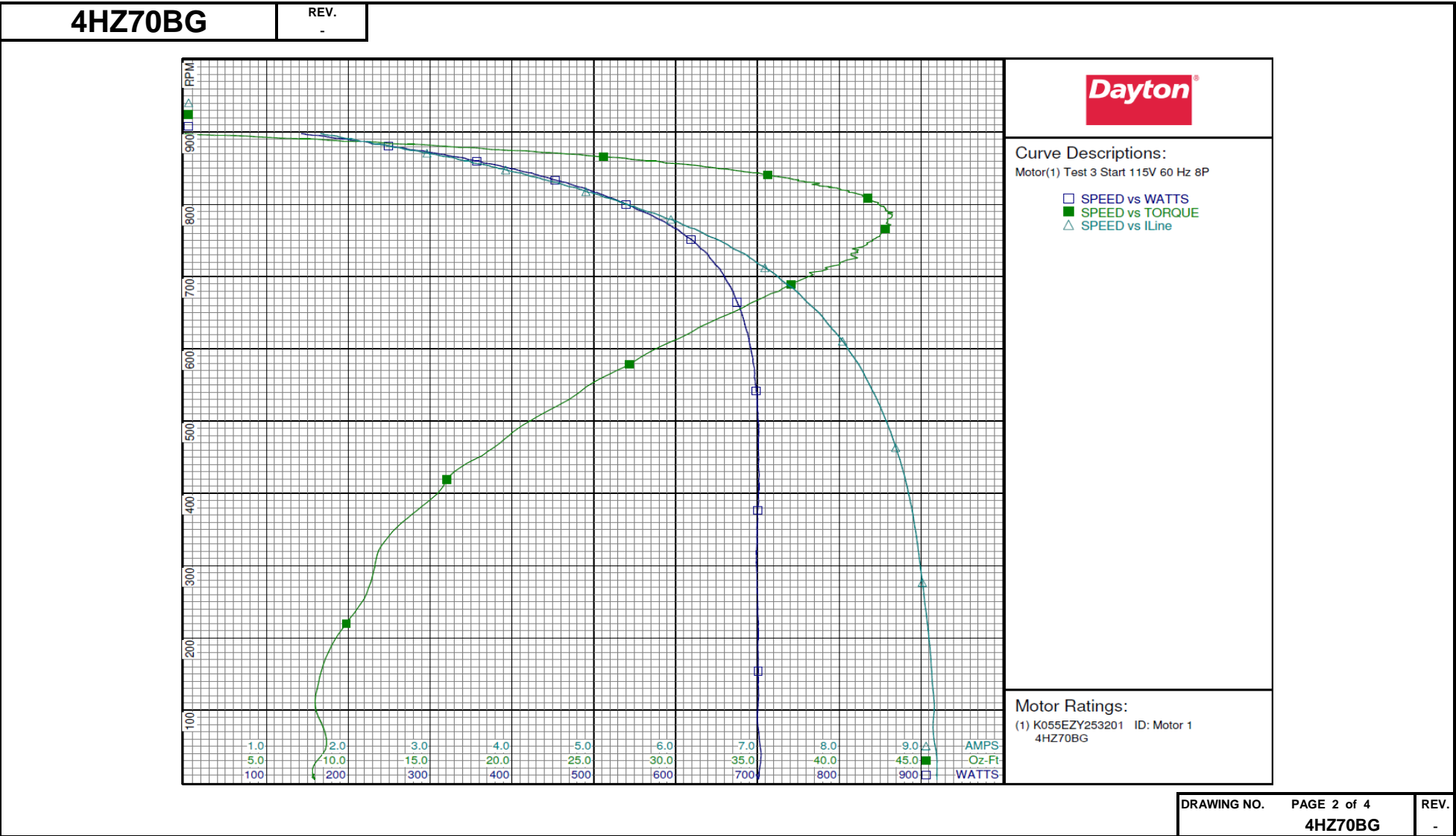
Test Conditions

Test Type: Start
 Test Number: 3
 Poles: 8
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amps Performance Fixture #4

Run Cap: 12.5MFD, 370 VOLTS
 Start Cap: 0µfd
 Environment: 21.1 Deg C 54 % RH 991 hPa
 Tested: 7/12/2016 1:30:39 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.66 Oz-Ft
 Windage Torque: -2.35 Oz-Ft

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	43.2	143.3	9.190	9.599	0.702	699.0	10	7.89	0.001	0.1	66.1	13.0
PUT OZ-FT	115.0	43.1	143.2	9.196	9.604	0.701	700.0	7	7.80	0.001	0.1	66.2	13.0
	115.0	42.6	142.5	9.193	9.599	0.698	701.6	14	7.81	0.001	0.1	66.4	13.0
	115.0	44.6	141.4	9.147	9.534	0.692	700.1	83	8.33	0.008	0.9	66.6	13.0
	115.0	45.7	136.8	9.119	9.467	0.669	700.9	172	8.61	0.018	1.9	66.8	13.0
	115.0	48.6	133.2	9.039	9.351	0.652	700.2	254	10.98	0.033	3.5	67.4	13.0
	115.0	52.6	129.5	8.960	9.230	0.633	699.2	327	12.02	0.047	5.0	67.9	13.0
	115.0	58.8	127.3	8.860	9.082	0.622	701.3	394	15.15	0.071	7.6	68.8	13.0
	115.0	65.0	125.9	8.723	8.899	0.615	701.3	452	18.20	0.098	10.4	69.9	13.0
	115.0	73.6	125.4	8.534	8.652	0.612	700.7	511	21.93	0.133	14.2	71.4	13.0
	115.0	82.5	125.9	8.320	8.379	0.614	696.2	561	25.60	0.171	18.3	72.8	12.9
	115.0	92.6	127.7	8.069	8.064	0.622	690.7	606	29.38	0.212	22.9	74.4	12.9
	115.0	103.6	131.2	7.779	7.703	0.639	681.4	647	33.10	0.255	27.9	76.2	12.9
	115.0	116.2	136.8	7.444	7.293	0.666	668.2	683	36.50	0.297	33.1	78.1	12.9
	115.0	129.1	144.1	7.094	6.865	0.701	652.5	712	39.15	0.332	38.0	80.0	12.9
	115.0	143.0	153.7	6.706	6.395	0.747	630.8	738	40.81	0.359	42.4	81.8	12.9
	115.0	157.0	164.7	6.298	5.907	0.801	605.5	762	42.70	0.387	47.7	83.6	12.9
	115.0	170.1	175.8	5.913	5.449	0.855	579.1	779	42.93	0.398	51.3	85.2	12.9
	115.0	182.6	187.3	5.531	4.999	0.912	549.7	795	42.79	0.405	54.9	86.4	12.9
	115.0	193.4	197.9	5.179	4.596	0.963	521.9	808	41.86	0.403	57.6	87.6	12.9
	115.0	203.1	208.0	4.854	4.223	1.013	494.0	820	40.10	0.391	59.1	88.5	12.9
	115.0	212.4	218.2	4.518	3.844	1.063	462.6	831	37.93	0.375	60.5	89.0	12.9
	115.0	221.6	228.3	4.182	3.473	1.113	431.0	841	35.67	0.357	61.8	89.6	12.9
	115.0	230.4	238.3	3.842	3.109	1.162	398.0	850	32.62	0.330	61.8	90.1	12.9
	115.0	238.9	248.5	3.499	2.757	1.207	362.5	859	29.09	0.297	61.2	90.1	12.9
	115.0	247.3	258.2	3.169	2.434	1.255	327.7	866	25.26	0.260	59.3	89.9	12.9
	115.0	255.2	267.8	2.842	2.144	1.302	291.4	874	20.85	0.217	55.5	89.1	12.9
	115.0	263.3	277.3	2.513	1.890	1.349	253.6	880	16.00	0.168	49.3	87.8	12.9
	115.0	271.3	287.4	2.202	1.703	1.398	215.8	887	10.56	0.111	38.5	85.2	12.9
	115.0	279.1	297.6	1.892	1.627	1.448	175.0	893	4.54	0.048	20.6	80.4	12.9
	115.0	284.7	304.7	1.664	1.642	1.485	142.7	898	0.00	0.000	0.0	74.6	12.9

DRAWING NO.	PAGE 1 of 4	REV.
	4HZ70BG	-



Performance Data



4HZ70BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K055EZY253201 4HZ70BG
 Motor ID: Motor 1
 Poles: 8
 Volts: 115
 Frequency: 60
 HP: 0.333
 Speed: 850
 Phase: 1
 Protector: AUTO

Test Conditions

Test Type: Run
 Test Number: 2
 Poles: 8
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amps Performance Fixture #4

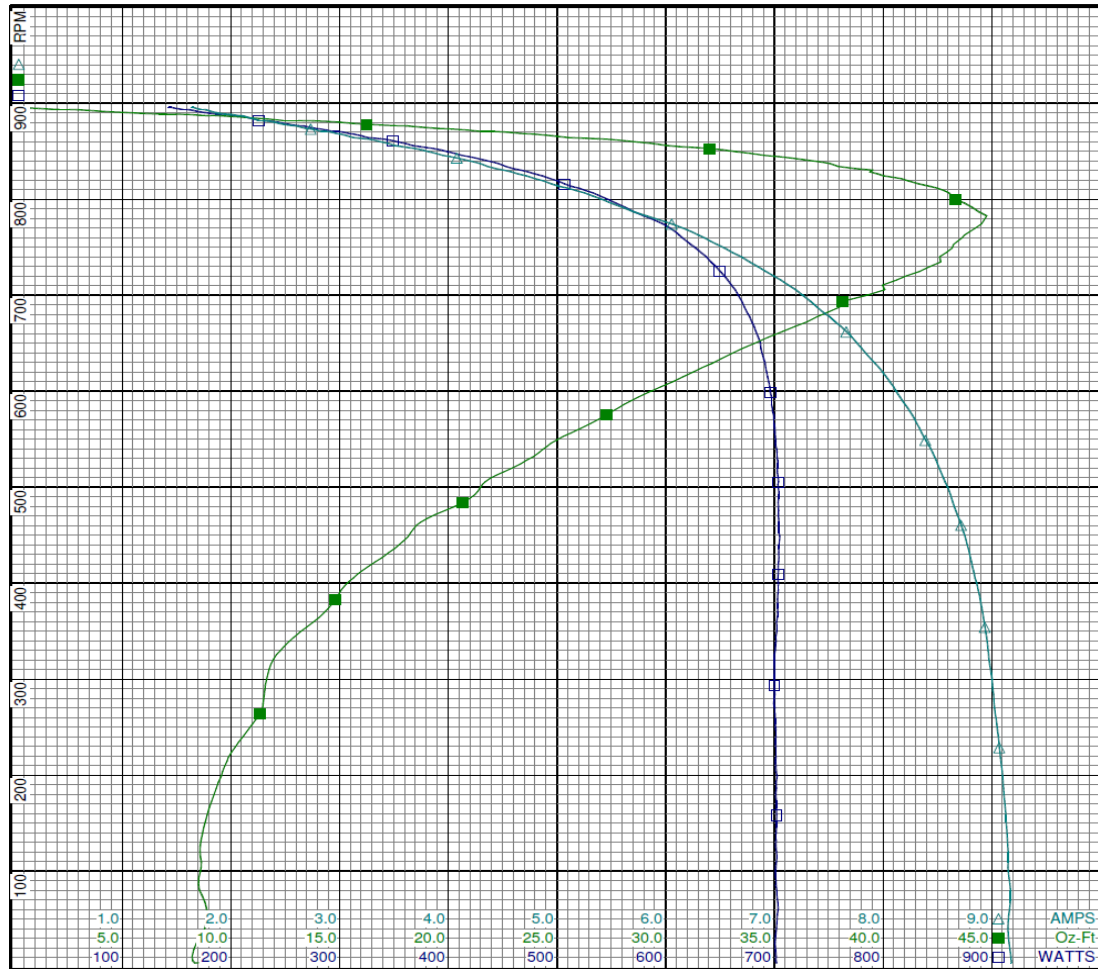
Run Cap: 12.5 MFD, 370 VOLTS
 Start Cap: 0µfd
 Environment: 21.1 Deg C 54 % RH 991 hPa
 Tested: 7/12/2016 1:25:11 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.58 Oz-Ft
 Windage Torque: -2.22 Oz-Ft

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	285.0	304.8	1.638	1.598	1.483	142.7	895	0.00	0.000	0.0	75.8	12.9
	115.0	281.2	299.9	1.788	1.571	1.458	164.8	892	3.42	0.036	16.5	80.2	12.9
	115.0	275.3	292.0	2.044	1.593	1.419	199.5	887	8.54	0.090	33.8	84.9	12.9
	115.0	270.3	285.5	2.253	1.678	1.387	226.2	882	12.39	0.130	42.9	87.3	12.9
	115.0	262.5	275.7	2.558	1.883	1.340	261.7	876	17.45	0.182	51.9	89.0	12.9
	115.0	253.7	265.3	2.921	2.178	1.289	303.0	870	22.69	0.235	57.8	90.2	12.9
	115.0	243.7	253.3	3.338	2.566	1.230	348.7	861	28.10	0.288	61.6	90.9	12.9
0.33 HP	115.0	233.6	241.6	3.750	2.985	1.173	392.2	851	32.56	0.330	62.8	91.0	12.9
850 RPM	115.0	232.3	240.1	3.800	3.038	1.166	397.2	850	33.05	0.334	62.8	90.9	12.9
	115.0	231.9	239.6	3.817	3.056	1.164	399.0	850	33.22	0.336	62.8	90.9	12.9
34 OZ-FT	115.0	230.1	237.4	3.893	3.136	1.157	407.0	847	34.00	0.343	62.9	90.9	12.9
	115.0	217.6	223.3	4.362	3.647	1.087	452.9	834	37.94	0.377	62.0	90.3	12.9
	115.0	201.1	205.3	4.949	4.312	1.000	507.0	816	41.64	0.404	59.5	89.1	12.9
	115.0	181.8	185.8	5.597	5.064	0.905	562.5	792	44.08	0.415	55.1	87.4	12.9
BDT OZ-FT	115.0	174.7	179.0	5.823	5.331	0.872	579.9	783	44.76	0.417	53.6	86.6	12.9
	115.0	156.9	163.5	6.358	5.967	0.797	615.4	760	43.63	0.394	47.8	84.2	12.9
	115.0	137.5	148.6	6.920	6.643	0.724	650.1	725	41.67	0.359	41.3	81.7	12.9
	115.0	117.8	136.7	7.452	7.293	0.667	674.8	682	37.42	0.304	33.6	78.7	12.9
	115.0	102.4	130.1	7.847	7.784	0.636	688.7	638	32.98	0.251	27.2	76.3	13.0
	115.0	91.3	127.0	8.126	8.132	0.621	696.2	599	29.19	0.208	22.3	74.5	13.0
	115.0	83.9	125.8	8.310	8.364	0.615	699.5	566	26.54	0.179	19.1	73.2	13.0
	115.0	78.0	125.4	8.455	8.547	0.613	702.4	536	24.17	0.154	16.4	72.2	13.0
	115.0	73.1	125.1	8.569	8.694	0.613	703.7	505	21.68	0.130	13.8	71.4	13.0
	115.0	68.6	125.6	8.668	8.823	0.615	703.7	475	19.83	0.112	11.9	70.6	13.0
	115.0	64.6	125.9	8.762	8.945	0.617	704.7	445	17.98	0.095	10.1	69.9	13.0
	115.0	60.6	126.9	8.838	9.049	0.622	703.4	409	15.82	0.077	8.2	69.2	13.0
	115.0	56.9	127.8	8.907	9.145	0.627	703.0	374	14.49	0.065	6.8	68.6	13.0
	115.0	53.5	129.2	8.961	9.226	0.633	701.1	334	12.43	0.049	5.3	68.0	13.0
	115.0	50.6	130.8	9.006	9.295	0.642	700.1	294	11.58	0.040	4.3	67.6	13.0
	115.0	48.7	133.2	9.045	9.356	0.652	700.7	253	10.97	0.033	3.5	67.4	13.0
	115.0	47.0	135.2	9.089	9.422	0.663	701.3	209	9.71	0.024	2.6	67.1	13.0
	115.0	45.5	137.1	9.128	9.481	0.673	702.1	158	8.91	0.017	1.8	66.9	13.0
	115.0	44.5	139.3	9.149	9.519	0.683	701.7	109	8.64	0.011	1.2	66.7	13.0
	115.0	43.8	141.1	9.163	9.548	0.692	703.3	61	8.88	0.006	0.7	66.7	13.0
	115.0	44.2	144.4	9.178	9.589	0.708	701.4	7	8.24	0.001	0.1	66.5	13.0

DRAWING NO. PAGE 3 of 4 REV.
4HZ70BG -

4HZ70BG

REV.
-



Curve Descriptions:
Motor(1) Test 2 Run 115V 60 Hz 8P


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

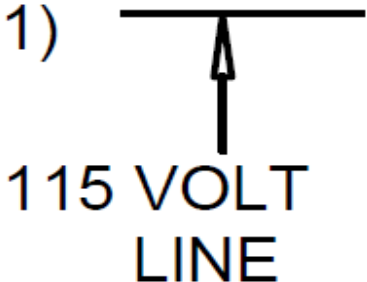
Motor Ratings:
(1) K055EZY253201 ID: Motor 1
4HZ70BG


DRAWING NO.	PAGE 4 of 4	REV.
4HZ70BG		-

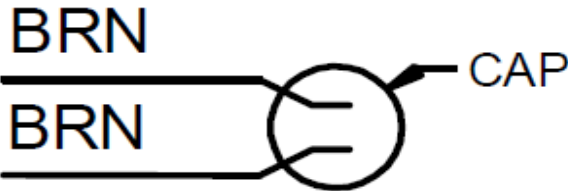
4HZ70BG	REV. -
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CONNECTIONS

BLACK (1) 



WHITE (C) 



ROTATION: CW. LEAD END

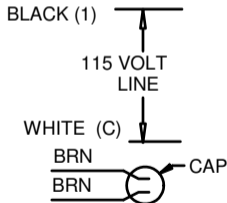
DRAWING NO. 4HZ70BG	PAGE 1 of 1	REV. -
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Dayton[®]

DIRECT DRIVE BLOWER MOTOR

HP: 1/3
VOLTS: 115**AMPS:** 4.1
RPM: 850
DUTY: CONT**SF:** 1.0
KVA CODE: B
ENCL: OAO**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 7A010 **MTR REF:** K55HXEZY-2532**PH:** 1
HZ: 60
FR: 48Y
INS CL: B
AMB: 40 °C
SFA:AVG. F.L.
EFF.Part
No **4HZ70BG****Disconnect Power Before Making Any
Electrical Connections or Changes**

CONNECTIONS

**MOTOR IS NON-REVERSIBLE
CW ROTATION FACING LEAD END****RU**[®]
E37403**SP**[®]
258501

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

Made in Mexico