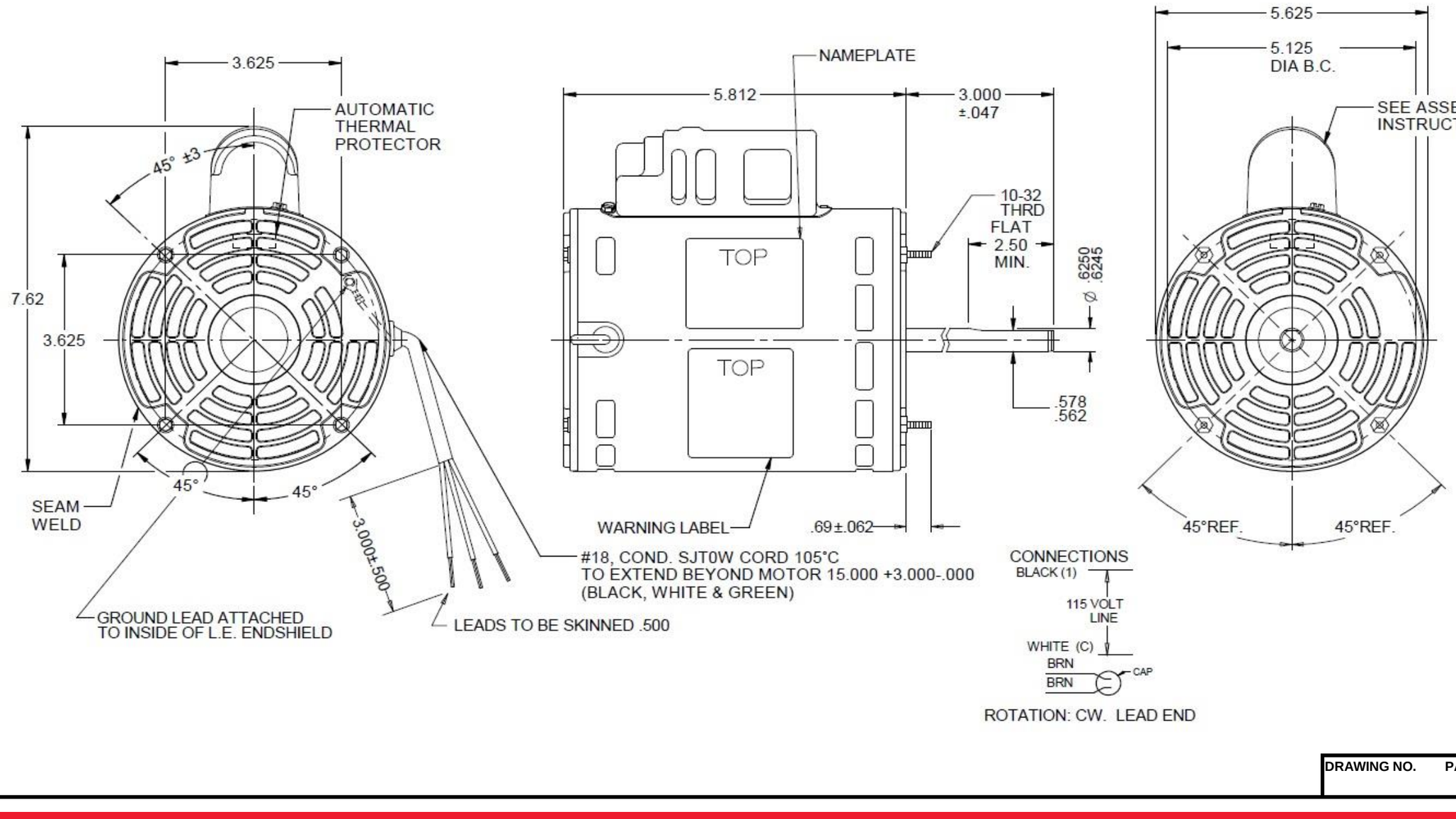
Dimensional Drawing

4HZ68BG	REV. -

MODEL	CUST. PT. NO.	HP	VOLTS	HZ	RPM	BEARING	ROTATION	AMPS	CAPACITOR	DESCRIPTION / REMARKS
K55HXEZT-2531	4HZ68BG	1/6	115	60	850	BALL	CW LEAD END	2.4	10 MFD 370V	STUD MOUNT, OPEN-ALL ANGLE



DRAWING NO.	PAGE 1 of 1	REV.
4HZ68BG		-

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

Performance Data

4HZ68BG	REV. -

MOTOR PERFORMANCE

HP:	1/6								
Poles:	8								
Ambient (°C)	40								
Altitude (FASL)**:**									
No. of Speeds:	1								
Volts:	115	**115**							
HZ:	60	**60**							
Service Factor:	1								
Efficiency:	@ Rated Load	56.00							
Power Factor:	@ Rated Load	81.1							
Amps:	@ No Load								
	@ Rated Load	2.4							
	@ Service Factor	2.4							
	@ Locked Rotor	5.5							
RPM:	@ Rated Load	840							
Torques:	Breakdown	24.2							
Oz.Ft. / Lb.In. (Circle One)	Locked Rotor	4.5							
	Pull-Up	4.4							
	Rated Load	16.5							
	Service Factor	16.5							
Watts:	@ Rated Load	219							
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)	10 / 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:	Breakdown							
Oz.Ft. / Lb.In. (Circle One)	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

DRAWING NO.	PAGE 1 of 1	REV.
4HZ68BG		-

Performance Data

4HZ68BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K055EZT253101 4HZ68BG
Motor ID:	Motor 1
Poles:	8
Volts:	115
Frequency:	60
HP:	0.167
Speed:	850
Phase:	1
Protector:	AUTO

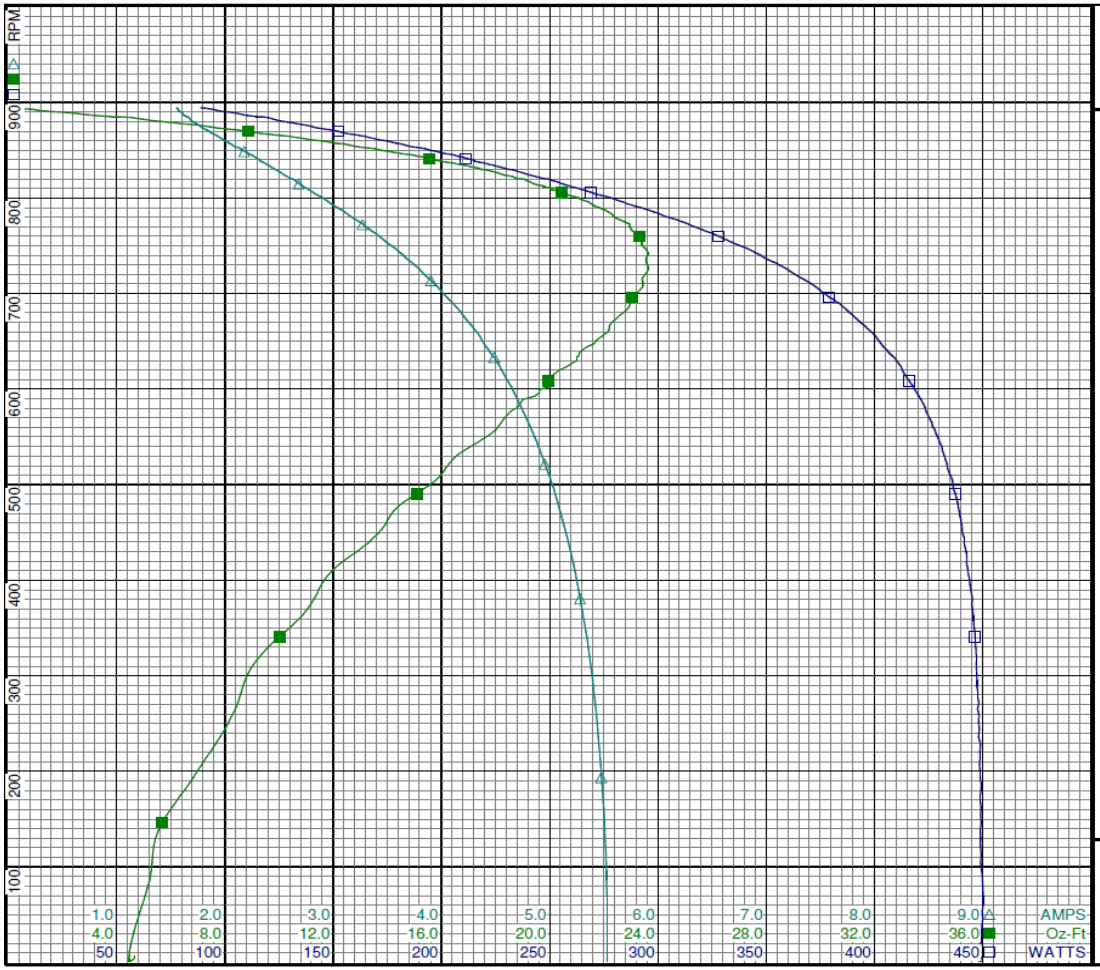
Test Conditions

Test Type:	Start	Run Cap:	10 MFD 370 VOLTS
Test Number:	3	Start Cap:	0µfd
Poles:	8	Environment:	21.0 Deg C 52 % RH 994 hPa
Volts:	115	Tested:	7/12/2016 8:23:18 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.46 Oz-Ft
Speed Conn:		Windage Torque:	-1.69 Oz-Ft
TestBoard:	Amtps Performance Fixture #4		

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	29.1	132.1	5.531	5.826	0.503	449.0	4	4.66	0.000	0.0	70.6	10.1
PUT OZ-FT	**115.0**	**29.1**	**132.2**	**5.529**	**5.822**	**0.503**	**448.9**	**2**	**4.45**	**0.000**	**0.0**	**70.6**	**10.1**
	115.0	29.1	131.9	5.528	5.821	0.502	448.7	11	4.47	0.001	0.1	70.6	10.1
	115.0	30.6	130.1	5.526	5.803	0.494	450.0	78	5.13	0.005	0.8	70.8	10.1
	115.0	32.6	127.4	5.498	5.755	0.484	449.2	161	6.02	0.012	1.9	71.0	10.1
	115.0	35.0	125.4	5.454	5.693	0.477	448.9	228	7.65	0.021	3.5	71.6	10.1
	115.0	37.8	123.7	5.397	5.616	0.470	447.3	295	8.73	0.031	5.1	72.1	10.1
	115.0	41.5	122.3	5.316	5.514	0.465	445.8	357	10.66	0.045	7.6	72.9	10.1
	115.0	45.6	121.2	5.228	5.402	0.461	443.0	413	12.06	0.059	10.0	73.7	10.1
	115.0	50.4	120.5	5.118	5.267	0.459	439.9	463	14.02	0.077	13.1	74.7	10.1
	115.0	55.4	120.3	4.996	5.120	0.457	435.1	509	15.95	0.097	16.6	75.7	10.1
	115.0	61.4	120.6	4.849	4.944	0.459	428.4	553	17.83	0.117	20.4	76.8	10.1
	115.0	67.5	121.8	4.689	4.755	0.463	420.3	593	19.45	0.137	24.3	78.0	10.1
	115.0	73.8	123.6	4.522	4.561	0.469	411.1	627	20.82	0.155	28.2	79.1	10.1
	115.0	80.4	126.4	4.334	4.344	0.479	399.1	658	22.09	0.173	32.4	80.1	10.1
	115.0	87.5	129.9	4.132	4.113	0.493	385.3	686	22.93	0.187	36.3	81.1	10.1
	115.0	94.3	134.3	3.923	3.877	0.509	369.8	712	23.45	0.199	40.1	82.0	10.1
	115.0	101.1	139.2	3.712	3.642	0.528	352.7	733	23.56	0.206	43.5	82.6	10.1
	115.0	107.9	144.7	3.491	3.401	0.549	334.0	754	23.39	0.210	46.9	83.2	10.1
	115.0	114.4	150.5	3.274	3.167	0.571	314.1	772	22.97	0.211	50.1	83.4	10.1
	115.0	120.9	156.6	3.058	2.942	0.594	293.9	788	21.92	0.206	52.2	83.6	10.1
	115.0	126.5	162.5	2.854	2.734	0.617	273.2	803	20.70	0.198	54.0	83.2	10.1
	115.0	131.8	168.1	2.667	2.550	0.638	253.6	817	19.28	0.187	55.1	82.7	10.1
	115.0	136.9	174.0	2.479	2.374	0.660	233.1	829	17.66	0.174	55.8	81.8	10.1
	115.0	142.0	180.0	2.313	2.213	0.683	213.5	840	15.69	0.157	54.8	80.3	10.1
	115.0	146.5	185.8	2.147	2.083	0.705	192.7	851	13.55	0.137	53.2	78.0	10.1
	115.0	151.0	191.4	1.996	1.974	0.727	173.0	860	11.37	0.116	50.2	75.4	10.1
	115.0	155.4	197.3	1.855	1.894	0.749	152.2	870	8.89	0.092	45.1	71.3	10.1
	115.0	160.2	203.4	1.724	1.837	0.772	131.1	878	6.13	0.064	36.5	66.1	10.1
	115.0	165.0	209.9	1.618	1.826	0.797	108.8	887	2.96	0.031	21.4	58.5	10.1
	115.0	168.4	214.7	1.558	1.849	0.815	90.9	894	0.23	0.002	2.0	50.7	10.1
	115.0	168.7	215.1	1.553	1.853	0.817	88.9	894	0.00	0.000	0.0	49.8	10.1

Performance Data

4HZ68BG	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 3 Start 115V 60 Hz 8P

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

Motor Ratings:

(1) K055EZT253101 ID: Motor 1
4HZ68BG

DRAWING NO.	PAGE 2 of 4	REV.
4HZ68BG		-

4HZ68BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K055EZT253101 4HZ68BG
Motor ID:	Motor 1
Poles:	8
Volts:	115
Frequency:	60
HP:	0.167
Speed:	850
Phase:	1
Protector:	AUTO

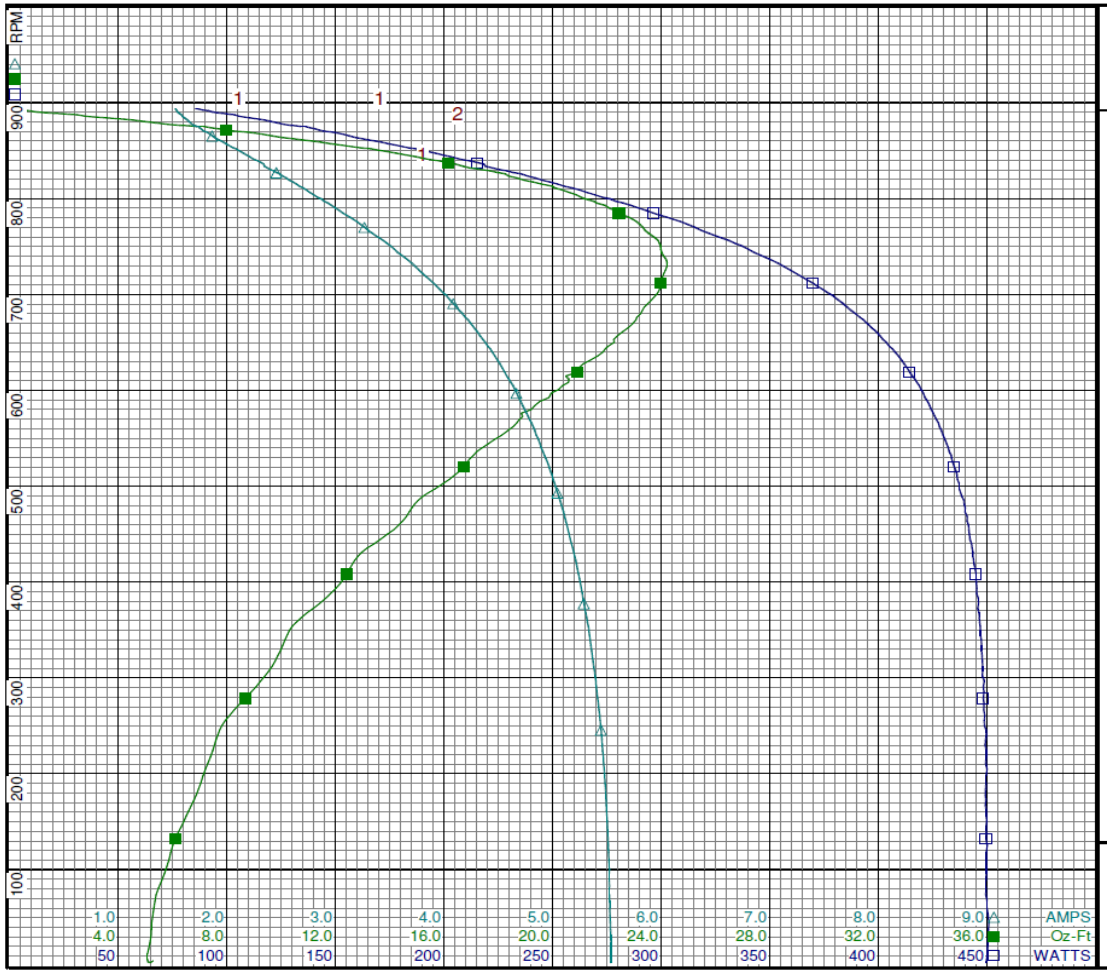
Test Conditions

Test Type:	Run	Run Cap:	10MFD 370 VOLTS
Test Number:	2	Start Cap:	0µfd
Poles:	8	Environment:	20.6 Deg C 49 % RH 994 hPa
Volts:	115	Tested:	7/12/2016 8:19:35 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.41 Oz-Ft
Speed Conn:		Windage Torque:	-1.59 Oz-Ft
TestBoard:	Amtps Performance Fixture #4		

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	169.0	215.6	1.525	1.837	0.819	85.6	893	0.00	0.000	0.0	48.8	10.1
	115.0	166.3	211.8	1.575	1.811	0.803	101.4	888	2.19	0.023	17.0	56.0	10.1
	115.0	162.7	206.5	1.651	1.803	0.784	120.2	880	4.95	0.052	32.2	63.3	10.1
	115.0	158.3	200.7	1.762	1.834	0.762	140.4	873	7.67	0.080	42.3	69.3	10.1
	115.0	154.0	195.2	1.886	1.896	0.741	159.4	863	10.05	0.103	48.4	73.5	10.1
	115.0	148.9	188.2	2.062	2.007	0.715	184.0	852	12.97	0.132	53.4	77.6	10.1
850 RPM	**115.0**	**147.7**	**186.5**	**2.107**	**2.039**	**0.708**	**190.0**	**850**	**13.63**	**0.138**	**54.2**	**78.4**	**10.1**
	115.0	143.4	181.2	2.263	2.162	0.688	209.2	840	15.57	0.156	55.5	80.4	10.1
16.5 OZ-FT	**115.0**	**141.0**	**178.5**	**2.341**	**2.234**	**0.678**	**218.5**	**835**	**16.50**	**0.164**	**56.0**	**81.1**	**10.1**
0.167 HP	**115.0**	**140.1**	**177.4**	**2.363**	**2.264**	**0.673**	**221.0**	**832**	**16.85**	**0.167**	**56.4**	**81.3**	**10.1**
	115.0	137.6	174.3	2.457	2.344	0.662	231.9	827	17.97	0.177	56.9	82.1	10.1
	115.0	131.0	166.9	2.700	2.574	0.633	258.7	811	20.05	0.194	55.8	83.3	10.1
	115.0	123.8	159.1	2.963	2.836	0.604	285.9	793	21.92	0.207	54.0	83.9	10.1
	115.0	116.4	151.6	3.231	3.114	0.576	312.1	773	23.21	0.214	51.0	84.0	10.1
	115.0	108.2	144.3	3.506	3.410	0.548	337.1	750	23.96	0.214	47.4	83.6	10.1
BDT OZ-FT	**115.0**	**102.2**	**139.3**	**3.703**	**3.624**	**0.530**	**353.7**	**732**	**24.20**	**0.211**	**44.5**	**83.1**	**10.1**
	115.0	100.1	137.7	3.771	3.700	0.523	359.5	725	24.15	0.208	43.3	82.9	10.1
	115.0	92.1	132.1	4.021	3.981	0.503	378.9	699	23.78	0.198	38.9	81.9	10.1
	115.0	84.2	127.7	4.247	4.239	0.486	394.8	669	22.93	0.183	34.5	80.8	10.1
	115.0	77.3	124.6	4.445	4.467	0.474	407.6	640	21.84	0.166	30.4	79.7	10.1
	115.0	71.1	122.4	4.614	4.665	0.467	417.5	608	20.58	0.149	26.6	78.7	10.1
	115.0	65.5	121.0	4.759	4.836	0.462	425.1	576	18.84	0.129	22.7	77.7	10.1
	115.0	60.8	120.4	4.882	4.983	0.459	431.2	544	17.62	0.114	19.7	76.8	10.1
	115.0	56.2	120.1	4.991	5.114	0.458	436.0	512	16.41	0.100	17.1	76.0	10.1
	115.0	52.3	120.2	5.088	5.229	0.459	439.8	477	14.81	0.084	14.3	75.2	10.1
	115.0	48.4	120.7	5.174	5.335	0.460	442.8	440	13.41	0.070	11.8	74.4	10.1
	115.0	45.1	121.3	5.245	5.424	0.462	444.8	403	12.30	0.059	9.9	73.7	10.1
	115.0	42.0	122.1	5.312	5.508	0.466	446.3	363	10.74	0.046	7.8	73.1	10.1
	115.0	39.5	123.0	5.364	5.575	0.468	447.6	323	9.87	0.038	6.3	72.6	10.1
	115.0	37.2	124.0	5.413	5.638	0.472	448.1	279	8.68	0.029	4.8	72.0	10.1
	115.0	35.3	125.1	5.452	5.690	0.476	449.1	236	7.60	0.021	3.5	71.6	10.1
	115.0	33.5	126.6	5.485	5.736	0.482	449.2	184	6.96	0.015	2.5	71.2	10.1
	115.0	32.1	128.0	5.506	5.768	0.487	449.4	139	6.20	0.010	1.7	71.0	10.1
	115.0	30.6	129.9	5.522	5.798	0.494	449.4	81	5.49	0.005	0.9	70.8	10.1
	115.0	29.9	131.6	5.535	5.823	0.501	450.3	24	5.17	0.001	0.2	70.7	10.1

Performance Data

4HZ68BG	REV. -



Dayton

Curve Descriptions:

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

- SPEED vs WATTS
- 1 Special Point: SPEED = 850 RPM
- SPEED vs TORQUE
- 2 Special Point: TORQUE = 16.5
- SPEED vs ILine

Motor Ratings:

(1) K055EZT253101 ID: Motor 1
4HZ68BG

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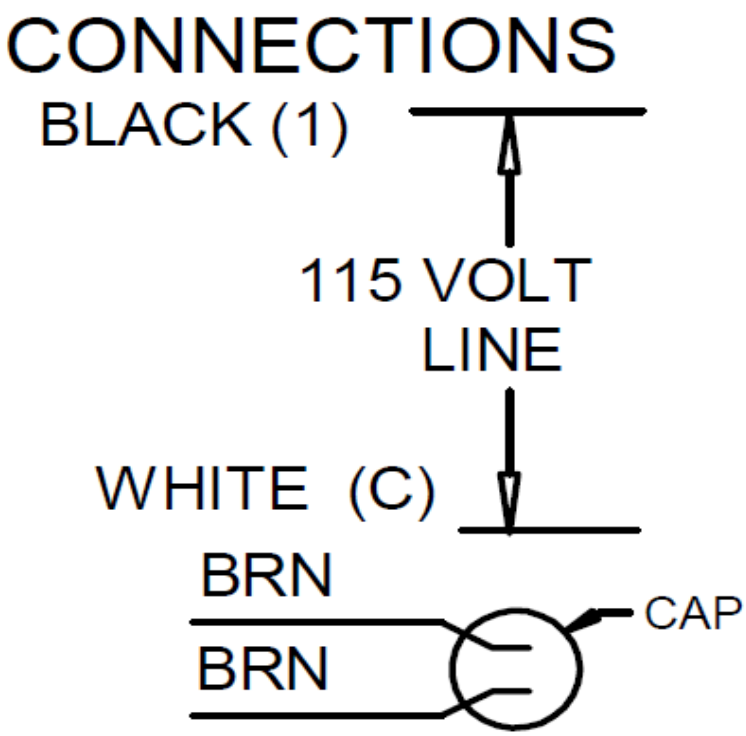
Wiring Diagram

4HZ68BG	REV. -



ROTATION: CW. LEAD END

DRAWING NO.	PAGE 1 of 1	REV.
4HZ68BG		-

Dayton®

DIRECT DRIVE BLOWER MOTOR

Part No 4HZ68BG

HP: 1/6
VOLTS: 115
AMPS: 2.4
RPM: 850
DUTY: CONT
SF: 1.0
KVA CODE: C
ENCL: OAO

PH: 1
HZ: 60
FR: 48Y
INS CL: B
AMB: 40 ℃
SFA:

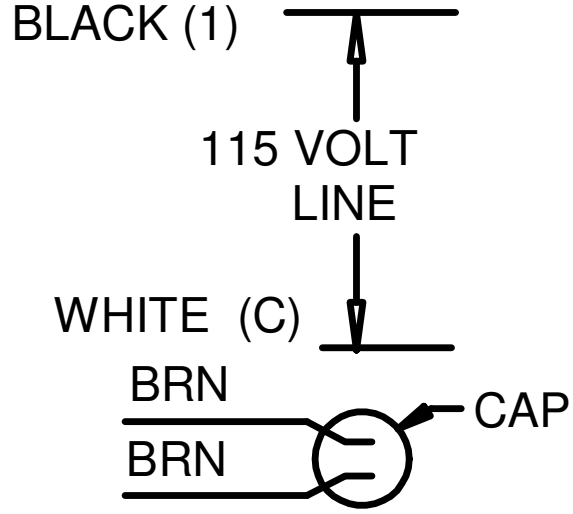
THERMALLY PROTECTED: AUTO

MFG. NO. [ ] PROT. CODE : [7A010] AVG. F.L. EFF.

MTR REF: K55HXEZT-2531

Disconnect Power Before Making Any Electrical Connections or Changes

CONNECTIONS



MOTOR IS NON-REVERSIBLE
CW ROTATION FACING LEAD END

E37403

258501

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

Made in Mexico