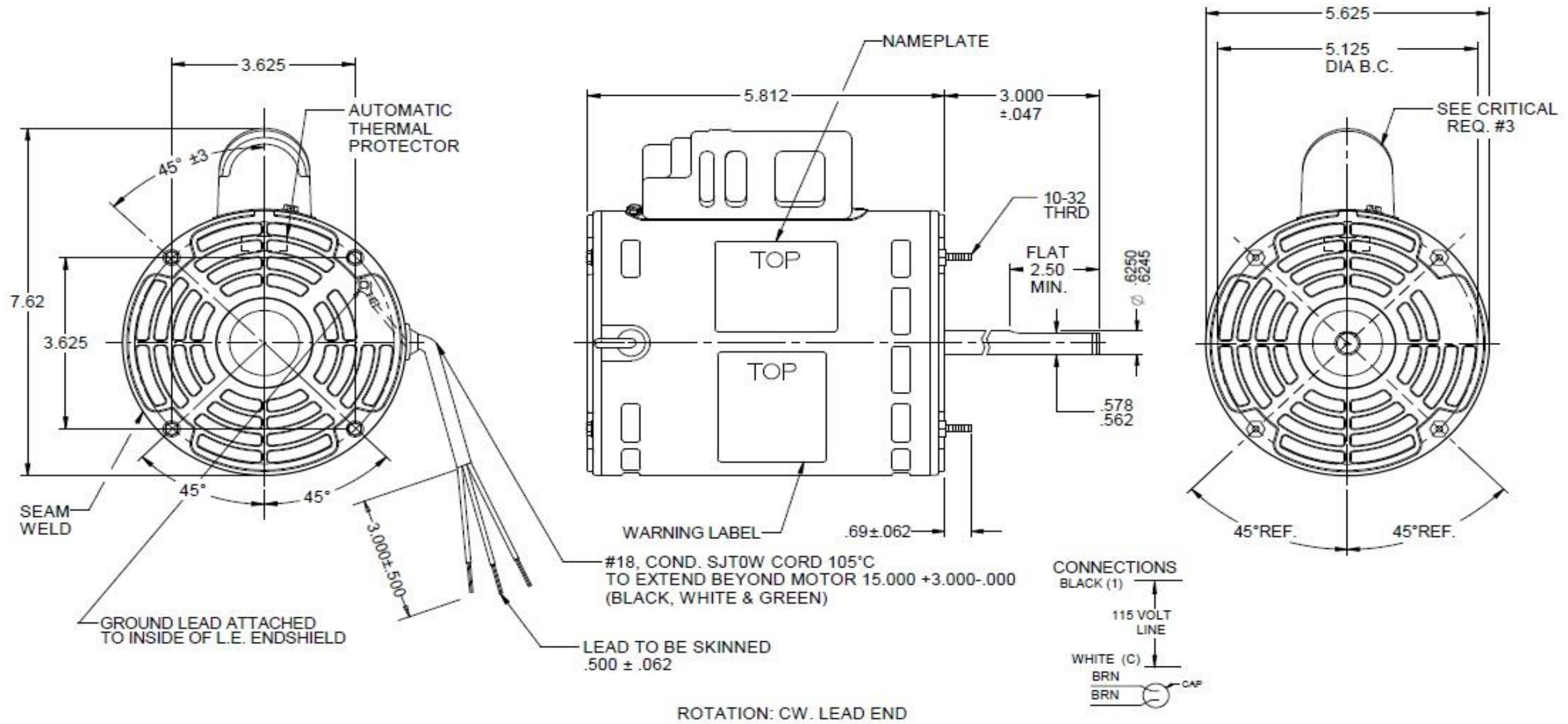


Dimensional Drawing



4M065BG REV. -

MODEL	CUST. PT. NO.	HP	VOLTS	HZ	RPM	BEARING	ROTATION	AMPS	CAPACITOR	DESCRIPTION / REMARKS
K55HXEPM-2504	4HZ85BG	1/4	115	60	850	BALL	CW LEAD END	3.2	12.5 MFD 370V	STUD MOUNT, OPEN-ALL ANGLE



DRAWING NO. PAGE 1 of 1 REV. -
4M065BG

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

Performance Data



4HZ65BG

REV.
-

MOTOR PERFORMANCE

HP:	1/4							
Poles:	8							
Ambient (°C)	40							
Altitude (FASL):								
No. of Speeds:	1							
Volts:	115	115						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	59.9						
Power Factor:	@ Rated Load	84.4						
Amps:	@ No Load							
	@ Rated Load	3.2						
	@ Service Factor	3.2						
	@ Locked Rotor	8.8						
RPM:	@ Rated Load	850						
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	40						
	Locked Rotor	8						
	Pull-Up	6.8						
	Rated Load	24.7						
	Service Factor	24.7						
Watts:	@ Rated Load	311						
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.
4HZ65BG -

Performance Data



4HZ65BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K055EPM250401 4HZ65BG
 Motor ID: 1
 Poles: 8
 Volts: 115
 Frequency: 60
 HP: 1/4
 Speed: 850
 Phase: 1
 Protector: AUTO

Test Conditions

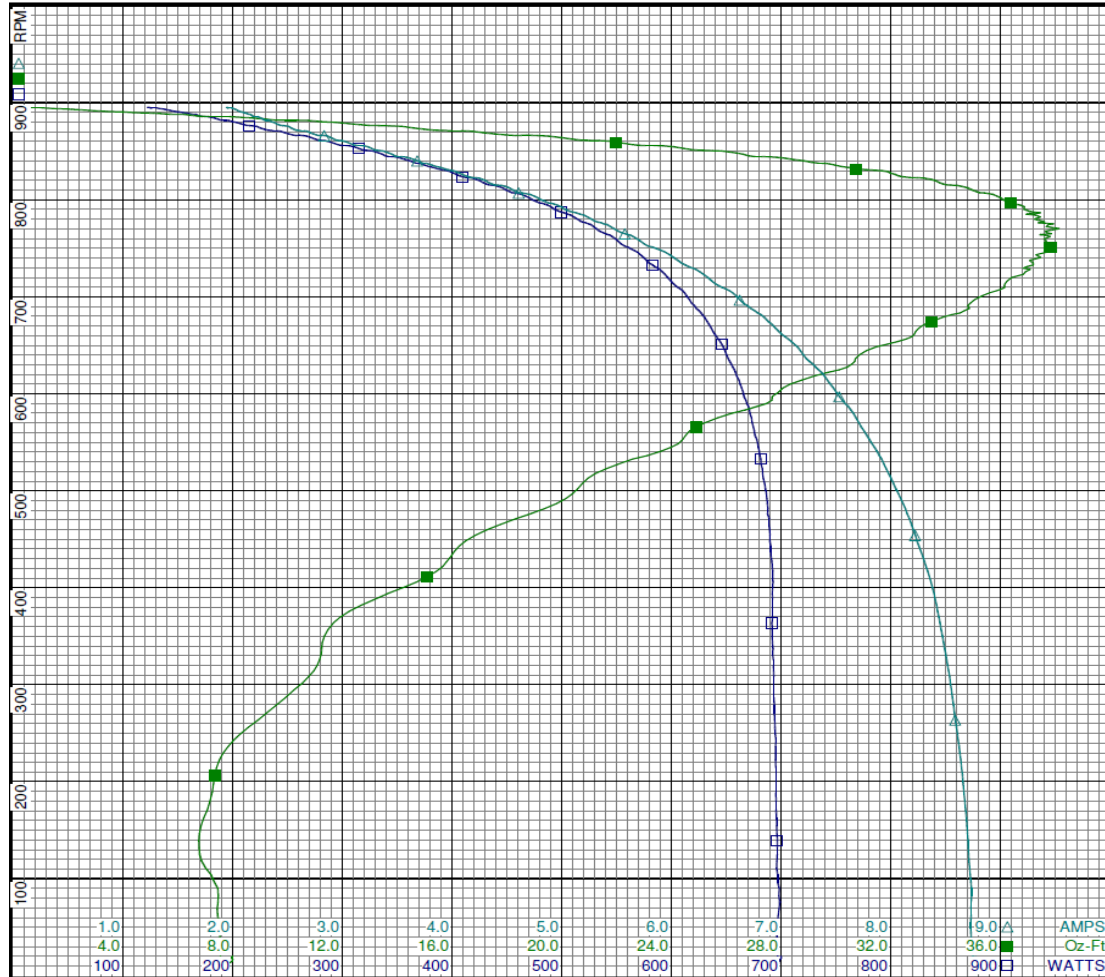
Test Type: Start
 Test Number: 3
 Poles: 8
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amps Performance Fixture #4
 Run Cap: 12.5 MFD 370 VOLTS
 Start Cap: 0µfd
 Environment: 20.5 Deg C 54 % RH 991 hPa
 Tested: 7/6/2016 2:26:07 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.67 Oz-Ft
 Windage Torque: -2.30 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	33.5	136.4	8.766	9.117	0.621	699.9	18	7.97	0.002	0.2	69.4	12.1
	115.0	33.6	136.5	8.753	9.107	0.621	697.8	14	7.55	0.001	0.1	69.3	12.1
	115.0	33.6	134.5	8.731	9.069	0.611	697.9	69	7.43	0.006	0.6	69.5	12.1
PUT OZ-FT	115.0	35.0	131.5	8.701	9.016	0.598	696.4	139	6.76	0.011	1.2	69.6	12.1
	115.0	35.0	131.5	8.701	9.016	0.598	696.4	139	6.76	0.011	1.2	69.6	12.1
	115.0	37.8	128.3	8.635	8.919	0.583	694.8	222	7.51	0.020	2.1	70.0	12.0
	115.0	41.8	125.2	8.551	8.801	0.569	693.3	294	10.23	0.036	3.9	70.5	12.0
	115.0	46.9	122.8	8.457	8.672	0.558	691.7	357	11.47	0.049	5.3	71.1	12.0
	115.0	53.6	121.8	8.335	8.510	0.553	692.2	417	15.42	0.077	8.2	72.2	12.0
	115.0	60.2	121.2	8.168	8.302	0.551	688.8	471	18.33	0.103	11.1	73.3	12.0
	115.0	68.0	121.8	7.957	8.047	0.553	682.8	522	21.60	0.134	14.7	74.6	12.0
	115.0	75.9	123.2	7.729	7.774	0.559	674.5	566	24.89	0.168	18.5	75.9	12.0
	115.0	84.4	125.6	7.475	7.474	0.570	663.9	606	28.06	0.202	22.7	77.2	12.0
	115.0	93.0	129.0	7.201	7.152	0.585	649.9	640	30.85	0.235	27.0	78.5	12.0
	115.0	101.9	133.6	6.915	6.819	0.606	634.0	671	33.22	0.265	31.2	79.7	12.0
	115.0	111.5	139.5	6.589	6.442	0.633	613.5	701	35.32	0.295	35.8	81.0	12.0
	115.0	121.1	146.3	6.256	6.063	0.664	591.5	726	36.90	0.319	40.2	82.2	12.0
	115.0	130.9	153.9	5.904	5.662	0.699	565.6	748	37.64	0.335	44.2	83.3	12.0
	115.0	139.8	161.5	5.575	5.296	0.733	539.8	765	37.84	0.345	47.6	84.2	12.0
	115.0	147.8	168.8	5.267	4.954	0.767	514.0	780	37.22	0.346	50.1	84.9	12.0
	115.0	155.5	176.5	4.962	4.629	0.801	487.2	794	36.74	0.347	53.2	85.4	12.0
	115.0	163.5	184.5	4.637	4.279	0.838	457.0	807	35.40	0.340	55.5	85.7	12.0
	115.0	170.8	192.1	4.335	3.959	0.872	428.4	817	33.77	0.329	57.2	85.9	12.0
	115.0	178.0	199.9	4.034	3.647	0.908	398.4	828	31.89	0.315	58.9	85.9	12.0
	115.0	184.9	207.7	3.732	3.344	0.941	367.1	837	29.34	0.293	59.4	85.5	12.0
	115.0	191.6	215.3	3.450	3.075	0.976	336.2	847	26.60	0.268	59.5	84.7	12.0
	115.0	197.7	223.0	3.166	2.822	1.011	303.2	856	23.35	0.238	58.5	83.3	12.0
	115.0	203.7	229.7	2.919	2.608	1.041	275.0	862	20.33	0.209	56.6	81.9	12.0
	115.0	210.0	237.8	2.647	2.417	1.078	240.0	871	16.32	0.169	52.6	78.8	12.0
	115.0	216.0	245.1	2.416	2.269	1.110	210.1	877	12.62	0.132	46.8	75.6	12.0
	115.0	222.9	253.8	2.241	2.209	1.149	180.3	885	8.30	0.087	36.2	70.0	12.0
	115.0	229.0	261.0	2.063	2.188	1.181	147.2	891	3.41	0.036	18.3	62.0	12.0
	115.0	232.3	265.5	1.942	2.199	1.202	122.1	895	0.00	0.000	0.0	54.7	12.0

DRAWING NO. PAGE 1 of 4 REV.
4HZ65BG -

4HZ65BG

REV.
-



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

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

Motor Ratings:
(1) K055EPM250401 ID: 1
4HZ65BG

DRAWING NO.	PAGE 2 of 4	REV.
4HZ65BG		-

Performance Data



4HZ65BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K055EPM250401 4HZ65BG
 Motor ID: 1
 Poles: 8
 Volts: 115
 Frequency: 60
 HP: 1/4
 Speed: 850
 Phase: 1
 Protector: AUTO

Test Conditions

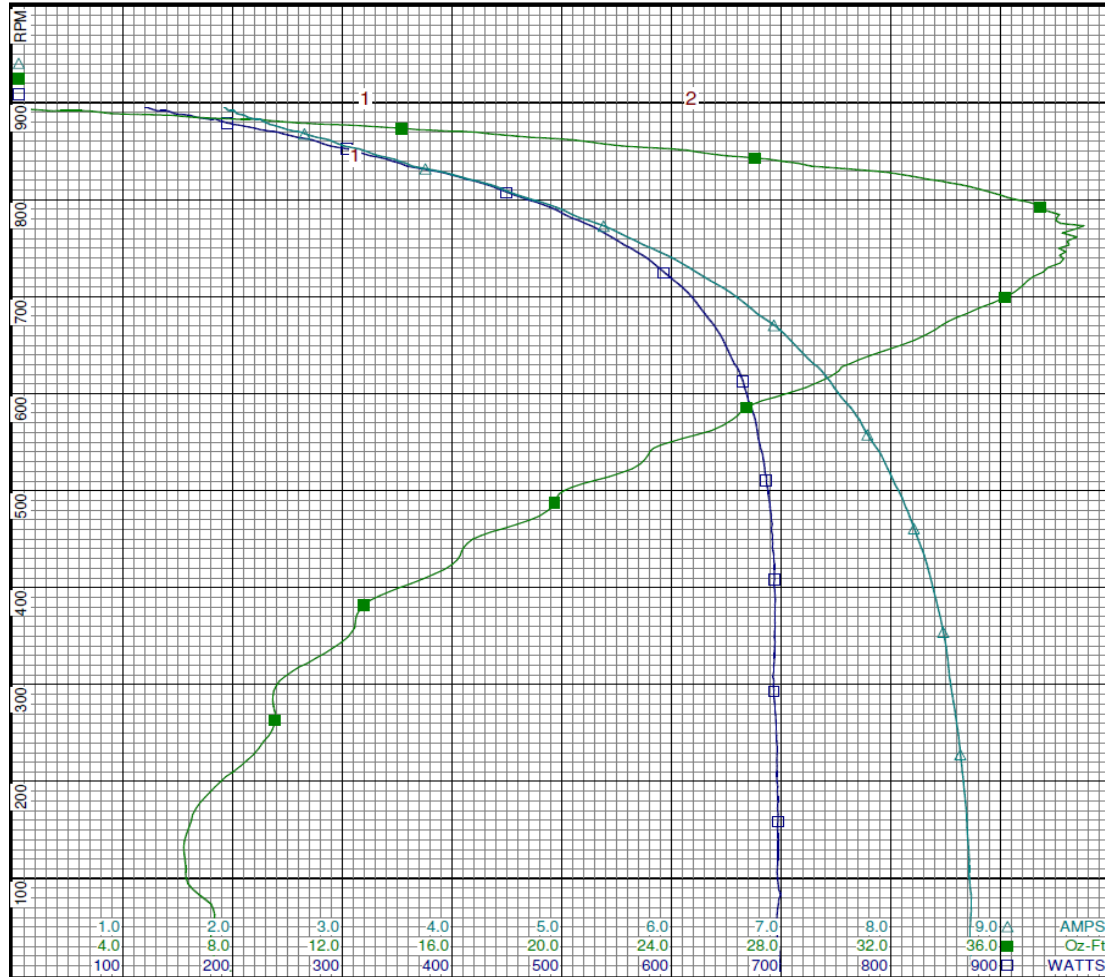
Test Type: Run
 Test Number: 2
 Poles: 8
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Aamps Performance Fixture #4
 Run Cap: 12.5 MFD 370 VOLTS
 Start Cap: 0µfd
 Environment: 20.5 Deg C 54 % RH 991 hPa
 Tested: 7/6/2016 2:22:54 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.45 Oz-Ft
 Windage Torque: -2.08 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	233.9	266.8	1.924	2.188	1.210	120.3	895	0.00	0.000	0.0	54.4	12.0
	115.0	231.3	263.1	2.013	2.162	1.191	141.0	891	2.79	0.030	15.7	60.9	12.0
	115.0	226.4	256.7	2.159	2.151	1.162	170.9	884	7.09	0.075	32.6	68.8	12.0
	115.0	222.2	251.6	2.305	2.195	1.139	194.8	879	10.37	0.108	41.5	73.5	12.0
	115.0	214.8	242.5	2.530	2.302	1.098	229.8	871	15.36	0.159	51.7	79.0	12.0
	115.0	206.3	232.9	2.797	2.495	1.055	262.7	863	19.32	0.199	56.4	81.7	12.0
	115.0	198.7	223.1	3.144	2.780	1.011	303.9	852	23.90	0.242	59.5	84.1	12.0
850 RPM	115.0	197.3	221.4	3.208	2.834	1.003	311.5	850	24.73	0.250	59.9	84.4	12.0
0.25 HP	115.0	197.4	221.4	3.205	2.831	1.003	311.1	850	24.70	0.250	59.9	84.4	12.0
24.7 OZ-FT	115.0	197.4	221.5	3.205	2.831	1.003	311.1	850	24.70	0.250	59.9	84.4	12.0
	115.0	190.8	213.3	3.523	3.124	0.966	346.2	839	28.05	0.280	60.4	85.5	12.0
	115.0	178.2	199.3	4.007	3.603	0.906	398.8	826	32.44	0.319	59.6	86.5	12.1
	115.0	166.4	186.5	4.525	4.149	0.848	449.8	808	35.61	0.342	56.8	86.4	12.1
	115.0	152.5	172.5	5.094	4.764	0.785	502.7	784	38.13	0.356	52.8	85.8	12.1
BDT OZ-FT	115.0	145.3	165.6	5.381	5.079	0.754	526.5	773	39.02	0.359	50.9	85.1	12.1
	115.0	137.7	158.7	5.673	5.403	0.723	551.1	757	38.43	0.346	46.9	84.5	12.1
	115.0	122.8	146.5	6.225	6.025	0.667	593.0	725	37.53	0.324	40.7	82.8	12.1
	115.0	108.6	136.8	6.720	6.593	0.623	626.2	688	35.21	0.288	34.4	81.0	12.1
	115.0	96.1	129.9	7.129	7.068	0.592	649.1	650	32.33	0.250	28.7	79.2	12.1
	115.0	86.2	125.8	7.442	7.436	0.573	665.0	613	29.43	0.215	24.1	77.7	12.1
	115.0	78.1	123.3	7.682	7.717	0.562	675.1	577	26.40	0.181	20.0	76.4	12.1
	115.0	71.4	122.0	7.868	7.940	0.556	680.9	544	23.33	0.151	16.5	75.2	12.1
	115.0	66.3	121.5	8.019	8.121	0.553	686.5	510	21.23	0.129	14.0	74.4	12.1
	115.0	61.5	121.2	8.151	8.281	0.552	690.0	479	19.46	0.111	12.0	73.6	12.1
	115.0	56.9	121.4	8.260	8.416	0.553	692.1	445	16.55	0.088	9.5	72.9	12.1
	115.0	52.7	121.7	8.361	8.543	0.554	693.6	408	14.91	0.072	7.8	72.1	12.1
	115.0	48.8	122.4	8.442	8.650	0.557	693.8	372	12.53	0.056	6.0	71.5	12.1
	115.0	44.9	123.5	8.507	8.738	0.562	693.6	332	11.36	0.045	4.8	70.9	12.1
	115.0	41.7	124.8	8.551	8.804	0.569	693.3	293	9.49	0.033	3.6	70.5	12.1
	115.0	39.5	126.7	8.606	8.877	0.577	695.1	253	9.43	0.028	3.0	70.2	12.1
	115.0	37.2	128.9	8.654	8.945	0.586	695.8	205	7.76	0.019	2.0	69.9	12.1
	115.0	35.5	130.5	8.689	8.998	0.594	696.7	159	6.48	0.012	1.3	69.7	12.1
	115.0	34.1	132.7	8.710	9.038	0.604	695.9	106	6.27	0.008	0.9	69.5	12.1
	115.0	33.4	134.4	8.727	9.068	0.612	695.9	63	7.34	0.005	0.6	69.3	12.1
	115.0	33.4	137.1	8.730	9.086	0.624	698.5	11	7.42	0.001	0.1	69.6	12.1

DRAWING NO. PAGE 3 of 4 REV.
4HZ65BG -

4HZ65BG

REV.
-



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 = 24.7
- △ SPEED vs IL

Motor Ratings:
 (1) K055EPM250401 ID: 1
 4HZ65BG


DRAWING NO. PAGE 4 of 4 REV.
4HZ65BG -

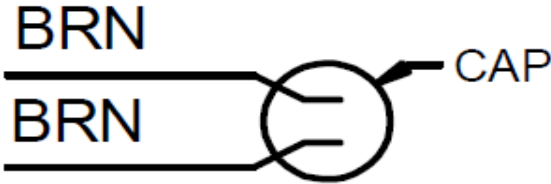
4HZ65BG	REV. -
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CONNECTIONS

BLACK (1) 

↑
115 VOLT
LINE
↓

WHITE (C) 

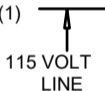


ROTATION: CW. LEAD END

DRAWING NO.	PAGE 1 of 1	REV.
4HZ65BG		-

Dayton[®]**DIRECT DRIVE
BLOWER MOTOR****HP:** 1/4
VOLTS: 115Part
No **4HZ65BG****AMPS:** 3.2
RPM: 850
DUTY: CONT**PH:** 1
HZ: 60
FR: 48Y
INS CL: B
AMB: 40 °C
SFA:**SF:** 1.0
KVA CODE: A
ENCL: OAO**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 7A010 AVG. F.L.
EFF.**MTR REF:** K55HXEPM-2504**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS**

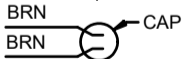
BLACK (1)

115 VOLT
LINE

WHITE (C)

BRN

BRN



CAP

**MOTOR IS NON-REVERSIBLE
CW ROTATION FACING LEAD END**

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

Made in Mexico