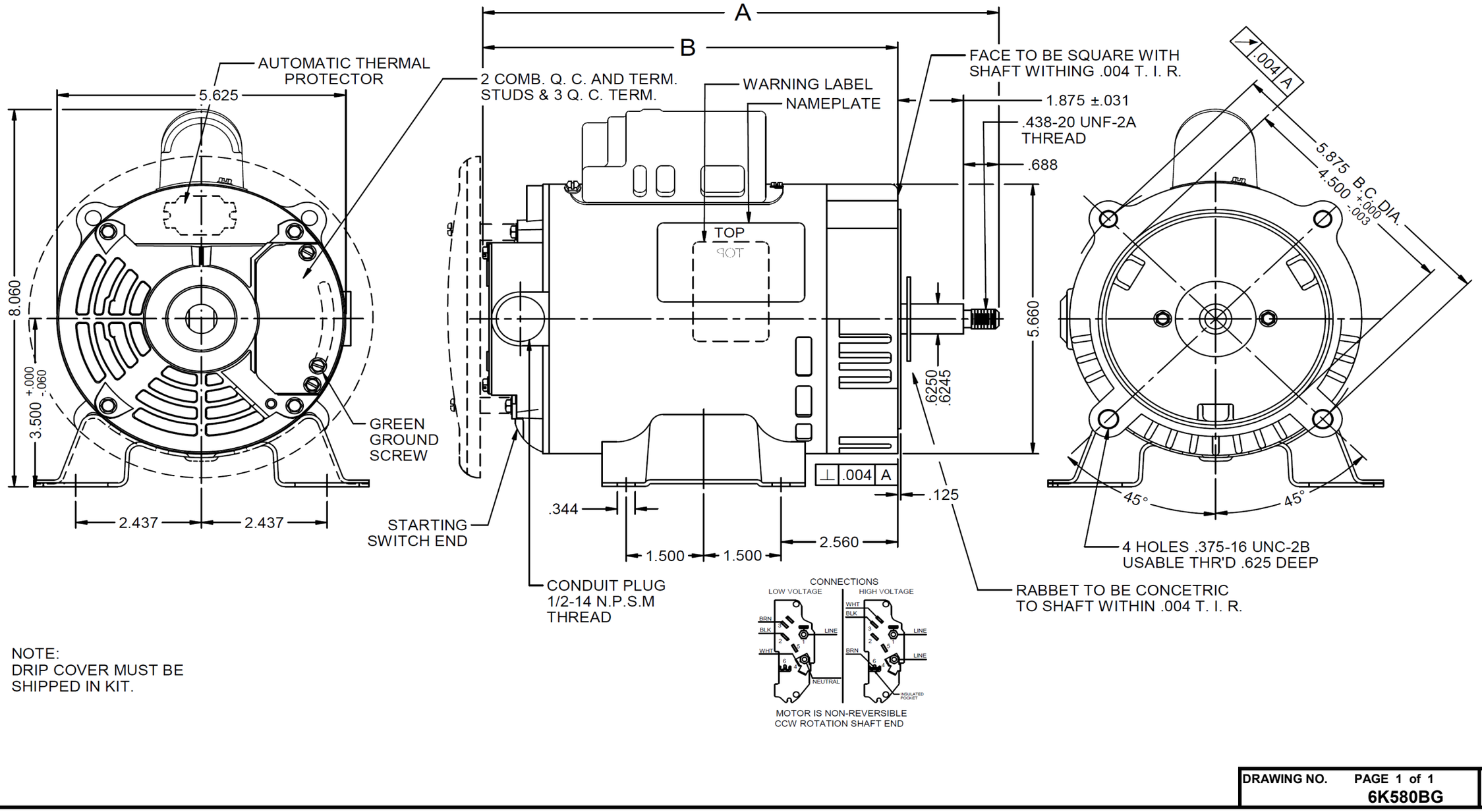
Dimensional Drawing

6K580BG

REV. -

VAR	MODEL	CUSTOMER PN	A	B	C	D	PROTECTOR	HP	VOLTS	AMPS	HZ	RPM	CONN VOLTS	ROTATION	SF	DESCRIPTION / REMARKS
001	C55CXJYN-2152	6K580BG	11.344	8.781	--	--	AUTO	1/2	115/230	9.0/4.5	60	3450	230	CCW SHAFT END	1.6	56J, ODP



NOTE:
DRIP COVER MUST BE SHIPPED IN KIT.

DRAWING NO.	PAGE 1 of 1	REV.
6K580BG		-

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

Performance Data

6K580BG	REV. -

MOTOR PERFORMANCE

HP:	1/2							
Poles:	2							
No. of Speeds:	1							
Volts:	115/230	**115**	**230**					
HZ:	60	**60**	**60**					
Service Factor:	1.6							
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load	8.6	4.3					
	@ Service Factor	11.02	6					
	@ Locked Rotor	39	19.9					
RPM:	@ Rated Load	3505	3506					
Ambient (°C):	40							
Altitude (FASL)**:**								
Torques:	Breakdown	35.5	36.9					
	Locked Rotor	19.3	20.3					
	Pull-Up	17.9	19.6					
	Rated Load	12	12					
	Service Factor	20.14	20.2					
Watts:	Rated Load	673	662					
KVA Code:	L	K	L					
Temperature Rise:	@ Rated Load	29.7	32.1					
	@ Service Factor	50.3	50.2					
Thermal Protector:	Trip Temp (°C)	125.4	166.4					
Winding Material:	Start (Auxiliary)	Al	Al					
	Run (Main)	Cu	Cu					
Capacitor(s):	Start (MFD / Volts)	136/110v						
	No. of Start Capacitors							
	Run (MFD / Volts)	N/A						
	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	REV.
6K580BG		-

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

Performance Data

6K580BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055CXJYN2152A	6K580BG
Motor ID:	1 of 1	
Poles:	2	
Volts:	115/230	
Frequency:	60	
HP:	1/2	
Speed:	3450	
Phase:	1	
Protector:	CEJ65EL	

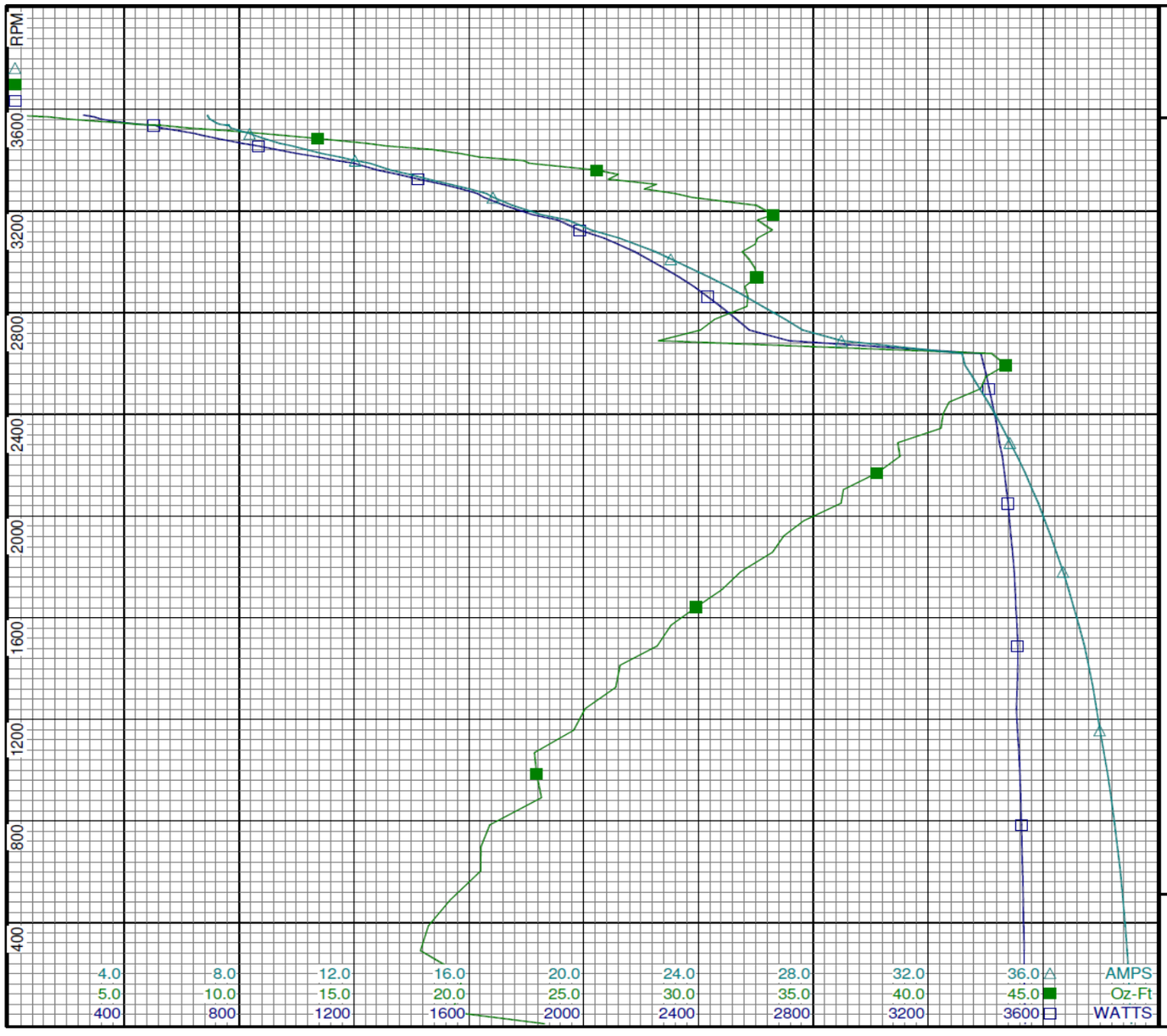
Test Conditions

Test Type:	Start	Run Cap:	0
Test Number:	7	Start Cap:	136 µFd
Poles:	2	Environment:	24.7 Deg C 33 % RH 971 hPa
Volts:	115	Tested:	1/12/2016 3:16:33 PM
Hz:	60	Tested By:	Navarro, Susana
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.77 Oz-Ft
Speed Conn:		Windage Torque:	-2.61 Oz-Ft
TestBoard:	CMD InLine Three Phase #1 Fixture #1		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	5.2	0.0	39.03	3537	47	19.29	0.011	0.2	78.8
PUT OZ-FT	**115.0**	**5.3**	**0.0**	**38.93**	**3534**	**289**	**17.89**	**0.062**	**1.3**	**78.9**
	115.0	5.3	0.0	38.86	3532	387	18.24	0.084	1.8	79.0
	115.0	5.3	0.0	38.59	3526	695	20.52	0.170	3.6	79.5
	115.0	5.3	0.0	38.25	3520	985	22.95	0.269	5.7	80.0
	115.0	5.4	0.0	37.86	3508	1241	25.06	0.370	7.9	80.6
	115.0	5.4	0.0	37.44	3512	1488	28.20	0.500	10.6	81.6
	115.0	5.4	0.0	36.89	3503	1710	31.02	0.632	13.5	82.6
	115.0	5.5	1.9	36.26	3488	1922	33.71	0.771	16.5	83.6
	115.0	5.5	1.9	35.63	3472	2103	36.30	0.909	19.5	84.7
	115.0	5.5	1.9	34.85	3448	2288	38.68	1.054	22.8	86.0
	115.0	5.6	2.0	34.08	3423	2448	40.91	1.192	26.0	87.3
	115.0	5.6	2.0	33.27	3393	2593	43.38	1.339	29.4	88.7
	115.0	5.6	2.0	27.63	2576	2731	30.08	0.978	28.3	81.1
	115.0	5.6	2.1	25.63	2431	2863	32.15	1.096	33.6	82.5
	115.0	5.6	2.1	23.69	2279	2975	32.45	1.149	37.6	83.6
	115.0	5.6	2.1	21.81	2120	3069	32.46	1.186	41.7	84.5
	115.0	5.7	2.2	19.45	1910	3164	32.56	1.226	47.9	85.4
	115.0	5.7	2.2	16.85	1652	3253	29.71	1.150	52.0	85.2
	115.0	5.7	2.3	15.36	1508	3305	28.16	1.108	54.8	85.4
	115.0	5.7	2.3	13.28	1283	3360	25.58	1.023	59.5	84.0
	115.0	5.8	2.4	11.51	1078	3412	20.46	0.831	57.5	81.5
	115.0	5.8	2.4	9.85	867	3455	16.43	0.676	58.2	76.5
	115.0	5.8	2.5	8.52	669	3497	11.83	0.493	54.9	68.3
	115.0	5.9	2.5	7.70	528	3526	7.77	0.326	46.1	59.7
	115.0	5.9	2.6	7.33	455	3540	5.57	0.235	38.5	54.0
	115.0	5.9	2.6	6.97	316	3562	2.49	0.106	24.9	39.5
	115.0	5.9	2.7	6.89	257	3577	0.00	0.000	0.0	32.4

Performance Data

6K580BG	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 7 Start 115V 60 Hz 2P

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

Motor Ratings:

(1) C055CXJYN2152A 6K580BG

DRAWING NO.	PAGE 2 of 8	REV.
6K580BG		-

Performance Data

6K580BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055CXJYN2152A	6K580BG
Motor ID:	1 of 1	
Poles:	2	
Volts:	115/230	
Frequency:	60	
HP:	1/2	
Speed:	3450	
Phase:	1	
Protector:	CEJ65EL	

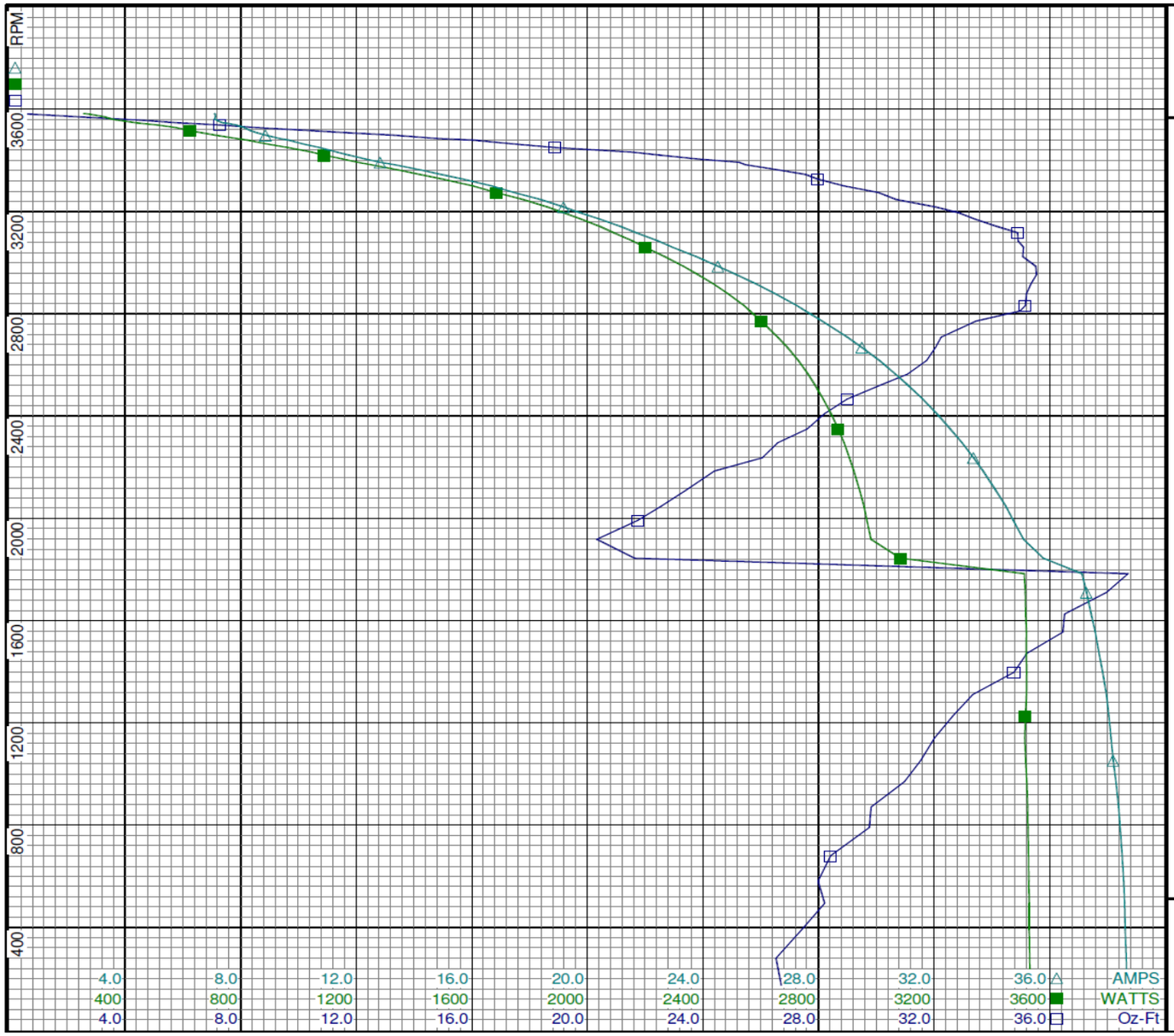
Test Conditions

Test Type:	Run	Run Cap:	0
Test Number:	8	Start Cap:	136 µFd
Poles:	2	Environment:	24.7 Deg C 33 % RH 971 hPa
Volts:	115	Tested:	1/12/2016 3:14:33 PM
Hz:	60	Tested By:	Navarro, Susana
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.88 Oz-Ft
Speed Conn:		Windage Torque:	-2.84 Oz-Ft
TestBoard:	CMD InLine Three Phase #1 Fixture #1		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	6.1	3.0	7.09	256	3583	0.00	0.000	0.0	31.4
	115.0	6.1	3.0	7.10	351	3562	3.65	0.155	32.9	43.0
	115.0	6.1	3.0	7.40	442	3546	5.88	0.248	41.9	51.9
	115.0	6.2	3.1	8.11	576	3528	8.52	0.358	46.4	61.7
12.17 OZ-FT	**115.0**	**6.2**	**3.1**	**8.65**	**679**	**3504**	**12.17**	**0.508**	**55.8**	**68.2**
0.5 HP	**115.0**	**6.2**	**3.1**	**8.61**	**673**	**3505**	**11.98**	**0.500**	**55.4**	**67.9**
	115.0	6.2	3.1	8.86	713	3498	13.29	0.554	57.9	69.9
	115.0	6.2	3.1	10.14	889	3464	17.41	0.718	60.3	76.2
20.08 OZ-FT	**115.0**	**6.2**	**3.2**	**11.00**	**1001**	**3441**	**20.08**	**0.823**	**61.3**	**79.1**
0.825 HP	**115.0**	**6.2**	**3.2**	**11.02**	**1003**	**3441**	**20.14**	**0.825**	**61.3**	**79.1**
	115.0	6.2	3.2	11.74	1088	3419	22.50	0.916	62.8	80.6
	115.0	6.2	3.2	13.32	1250	3382	25.47	1.025	61.2	81.7
	115.0	6.2	3.2	15.66	1495	3326	27.96	1.107	55.2	83.0
	115.0	6.2	3.2	18.38	1777	3246	30.68	1.186	49.8	84.1
	115.0	6.2	3.3	20.41	1976	3170	33.40	1.260	47.6	84.2
	115.0	6.2	3.3	22.45	2157	3084	34.91	1.281	44.3	83.5
	115.0	6.2	3.3	24.52	2332	2985	35.52	1.262	40.4	82.7
BDT OZ-FT	**115.0**	**6.2**	**3.3**	**25.15**	**2382**	**2952**	**35.54**	**1.249**	**39.1**	**82.4**
	115.0	6.2	3.3	26.50	2487	2878	35.20	1.206	36.2	81.6
	115.0	6.2	3.3	28.13	2601	2771	33.45	1.103	31.6	80.4
	115.0	6.2	3.3	30.10	2730	2616	31.74	0.989	27.0	78.8
	115.0	6.2	3.4	31.60	2816	2466	28.99	0.851	22.5	77.5
	115.0	6.2	3.4	32.97	2888	2294	26.58	0.726	18.8	76.2
	115.0	6.2	3.4	34.13	2942	2109	23.40	0.588	14.9	74.9
	115.0	6.2	3.4	35.09	2981	1917	20.32	0.464	11.6	73.9
	115.0	6.2	3.4	37.27	3516	1709	37.97	0.773	16.4	82.0
	115.0	6.2	3.4	37.71	3519	1471	35.21	0.617	13.1	81.1
	115.0	6.2	3.4	38.04	3516	1226	32.64	0.477	10.1	80.4
	115.0	6.2	3.4	38.29	3521	969	30.97	0.357	7.6	80.0
	115.0	6.2	3.4	38.50	3526	679	28.42	0.230	4.9	79.6
	115.0	6.1	3.4	38.61	3529	392	27.42	0.128	2.7	79.5

Performance Data

6K580BG	REV. -



Dayton®

Curve Descriptions:

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

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

Motor Ratings:

(1) C055CXJYN2152A 6K580BG

DRAWING NO.	PAGE 4 of 8	REV.
6K580BG		-

Performance Data

6K580BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055CXJYN2152A	6K580BG
Motor ID:	1 of 1	
Poles:	2	
Volts:	115/230	
Frequency:	60	
HP:	1/2	
Speed:	3450	
Phase:	1	
Protector:	CEJ65EL	

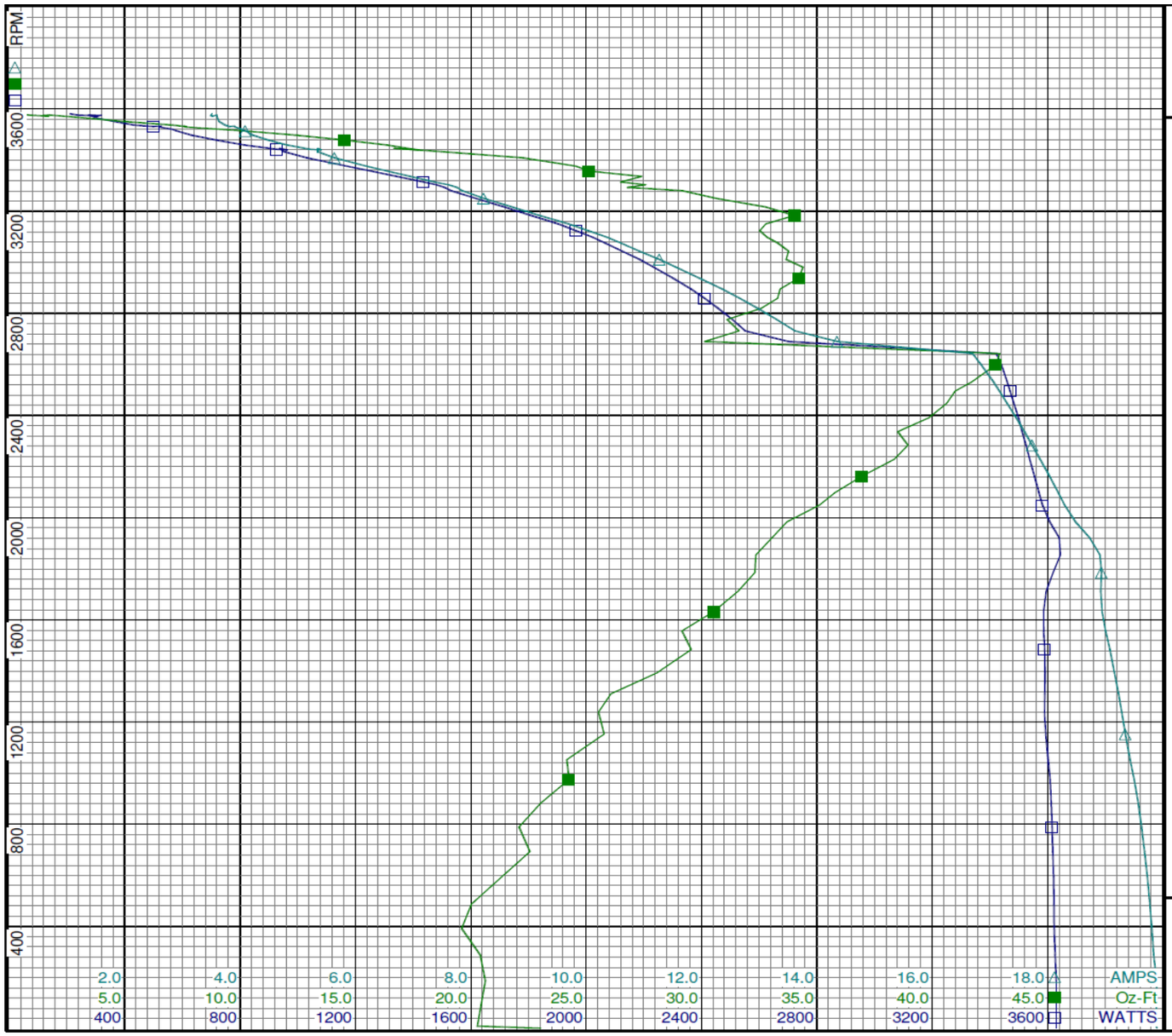
Test Conditions

Test Type:	Start	Run Cap:	0
Test Number:	10	Start Cap:	136 µFd
Poles:	2	Environment:	24.8 Deg C 33 % RH 967 hPa
Volts:	230	Tested:	1/11/2016 3:50:42 PM
Hz:	60	Tested By:	Navarro, Susana
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.45 Oz-Ft
Speed Conn:		Windage Torque:	-1.95 Oz-Ft
TestBoard:	CMD InLine Three Phase #1 Fixture #1		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	10.4	3.5	19.881	3629	9	20.28	0.002	0.0	79.4
PUT OZ-FT	**230.0**	**10.4**	**3.5**	**19.803**	**3623**	**391**	**19.60**	**0.091**	**1.9**	**79.5**
	230.0	10.4	3.5	19.803	3623	391	19.60	0.091	1.9	79.5
	230.0	10.4	3.5	19.679	3618	692	22.56	0.186	3.8	79.9
	230.0	10.5	3.5	19.498	3608	975	24.26	0.282	5.8	80.5
	230.0	10.5	3.5	19.283	3589	1238	25.53	0.376	7.8	80.9
	230.0	10.5	3.6	19.078	3589	1483	29.55	0.522	10.8	81.8
	230.0	10.6	3.6	18.918	3595	1712	31.59	0.644	13.4	82.6
	230.0	10.6	3.6	18.726	3640	1920	33.05	0.756	15.5	84.5
	230.0	10.6	3.7	18.184	3570	2097	35.77	0.893	18.7	85.4
	230.0	10.7	3.7	17.732	3525	2283	38.95	1.058	22.4	86.4
	230.0	10.7	3.8	17.295	3482	2448	40.63	1.184	25.4	87.5
	230.0	10.8	3.8	16.846	3440	2598	42.75	1.322	28.7	88.8
	230.0	10.8	3.9	13.617	2551	2731	31.62	1.028	30.1	81.4
	230.0	10.9	3.9	12.660	2411	2858	33.29	1.133	35.1	82.8
	230.0	10.9	4.0	11.558	2234	2980	34.39	1.220	40.7	84.0
	230.0	11.0	4.1	10.604	2066	3074	33.31	1.219	44.0	84.7
	230.0	11.0	4.1	9.691	1902	3150	32.79	1.229	48.2	85.3
	230.0	11.1	4.2	8.221	1615	3250	30.60	1.184	54.7	85.4
	230.0	11.1	4.3	7.611	1480	3303	27.58	1.084	54.6	84.6
	230.0	11.1	4.3	6.547	1253	3357	25.12	1.004	59.8	83.2
	230.0	11.2	4.4	5.339	952	3433	18.73	0.765	60.0	77.5
	230.0	11.2	4.4	5.212	928	3442	17.51	0.717	57.7	77.4
	230.0	11.2	4.5	4.218	631	3497	12.41	0.517	61.1	65.0
	230.0	11.3	4.5	3.918	521	3529	7.68	0.323	46.2	57.8
	230.0	11.3	4.6	3.740	432	3536	7.06	0.297	51.3	50.3
	230.0	11.3	4.6	3.593	275	3576	1.73	0.074	20.0	33.3
	230.0	11.4	4.7	3.491	271	3574	1.12	0.048	13.1	33.8
	230.0	11.4	4.7	3.510	209	3581	0.00	0.000	0.0	25.9

Performance Data

6K580BG	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 10 Start 230V 60 Hz 2P

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

Motor Ratings:

(1) C055CXJYN2152A 6K580BG

DRAWING NO.	PAGE 6 of 8	REV.
6K580BG		-

Performance Data

6K580BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055CXJYN2152A	6K580BG
Motor ID:	1 of 1	
Poles:	2	
Volts:	115/230	
Frequency:	60	
HP:	1/2	
Speed:	3450	
Phase:	1	
Protector:	CEJ65EL	

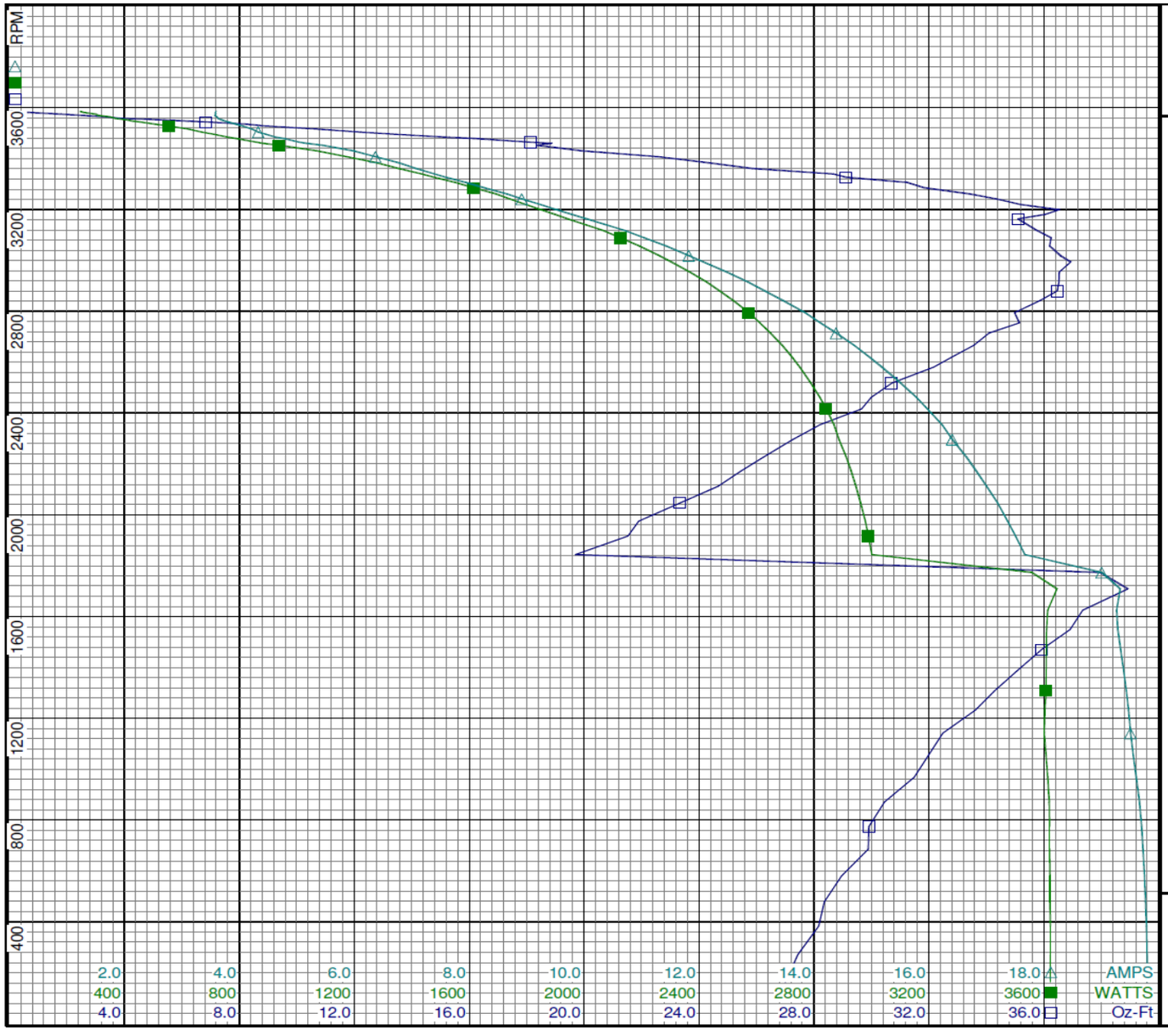
Test Conditions

Test Type:	Run		Run Cap:	0	
Test Number:	11		Start Cap:	136 µFd	
Poles:	2		Environment:	24.8 Deg C	33 % RH 967 hPa
Volts:	230		Tested:	1/11/2016 3:48:20 PM	
Hz:	60		Tested By:	Navarro, Susana	
Rotation:			Gear Ratio:	1:1	
Special Cond:			Bearing Friction:	-0.44 Oz-Ft	
Speed Conn:			Windage Torque:	-2.07 Oz-Ft	
TestBoard:	CMD InLine Three Phase #1 Fixture #1				

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	10.0	4.0	3.594	245	3585	0.00	0.000	0.0	29.6
	230.0	10.0	4.0	3.573	308	3569	2.50	0.106	25.8	37.5
	230.0	9.9	4.0	3.690	408	3551	5.37	0.227	41.5	48.0
	230.0	9.9	3.9	3.939	507	3535	8.23	0.347	51.0	55.9
12.17 OZ-FT	**230.0**	**9.9**	**3.9**	**4.327**	**668**	**3504**	**12.17**	**0.508**	**56.7**	**67.1**
0.5 HP	**230.0**	**9.9**	**3.9**	**4.313**	**662**	**3506**	**11.98**	**0.500**	**56.3**	**66.7**
	230.0	9.9	3.9	4.331	670	3504	12.22	0.510	56.8	67.2
	230.0	9.9	3.9	4.770	788	3478	16.15	0.669	63.3	71.8
	230.0	9.9	3.9	5.449	939	3452	18.36	0.754	60.0	74.9
20.08 OZ-FT	**230.0**	**9.9**	**3.9**	**6.007**	**1076**	**3428**	**20.08**	**0.819**	**56.8**	**77.9**
0.825 HP	**230.0**	**9.9**	**3.9**	**6.028**	**1082**	**3427**	**20.22**	**0.825**	**56.9**	**78.0**
	230.0	9.9	3.8	6.773	1278	3383	24.32	0.980	57.2	82.0
	230.0	9.9	3.8	7.591	1478	3325	29.12	1.153	58.2	84.6
	230.0	9.9	3.8	8.653	1693	3261	33.42	1.297	57.2	85.1
	230.0	9.9	3.8	9.520	1849	3199	36.54	1.391	56.1	84.5
	230.0	9.9	3.7	10.695	2064	3117	35.75	1.327	47.9	83.9
	230.0	9.9	3.7	11.822	2261	3018	36.58	1.314	43.4	83.2
BDT OZ-FT	**230.0**	**9.9**	**3.7**	**12.077**	**2303**	**2993**	**36.93**	**1.316**	**42.6**	**82.9**
	230.0	9.9	3.7	12.850	2426	2914	36.52	1.267	38.9	82.1
	230.0	9.9	3.6	13.841	2573	2794	34.98	1.163	33.7	80.8
	230.0	9.9	3.6	14.695	2689	2665	33.56	1.065	29.5	79.6
	230.0	9.9	3.6	15.507	2789	2518	30.71	0.920	24.6	78.2
	230.0	9.9	3.6	16.228	2869	2353	28.21	0.790	20.5	76.9
	230.0	9.9	3.5	16.828	2930	2170	25.44	0.657	16.7	75.7
	230.0	9.9	3.5	17.369	2978	1975	21.90	0.515	12.9	74.6
	230.0	9.9	3.5	19.005	3558	1773	37.95	0.801	16.8	81.4
	230.0	9.9	3.5	19.287	3609	1548	36.91	0.680	14.1	81.4
	230.0	9.9	3.4	19.434	3607	1309	34.29	0.534	11.1	80.7
	230.0	9.9	3.4	19.556	3607	1052	31.97	0.401	8.3	80.2
	230.0	9.9	3.4	19.701	3619	774	29.91	0.276	5.7	79.9
	230.0	9.9	3.4	19.768	3621	478	28.36	0.161	3.3	79.6
	230.0	10.0	3.3	19.800	3623	163	27.00	0.052	1.1	79.6

Performance Data

6K580BG	REV. -



Curve Descriptions:

Motor(1) Test 11 Run 230V 60 Hz 2P

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

Motor Ratings:

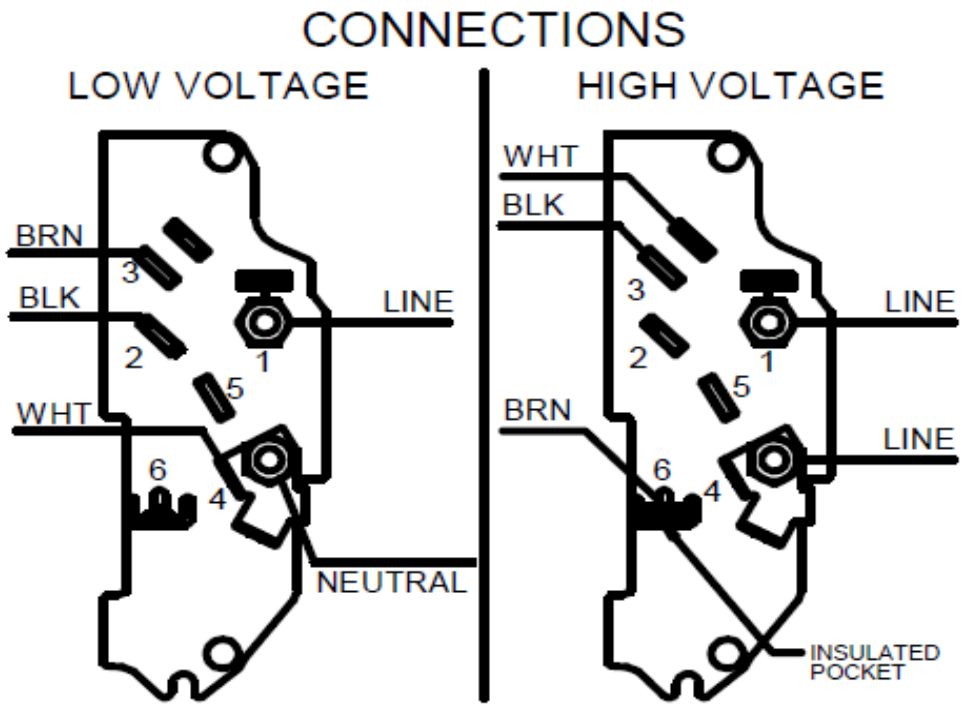
(1) C055CXJYN2152A 6K580BG

DRAWING NO.	PAGE 8 of 8	REV.
6K580BG		-

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

Wiring Diagram

6K580BG	REV. -



MOTOR IS NON-REVERSIBLE
CCW ROTATION SHAFT END

DRAWING NO.	PAGE 1 of 1	REV.
6K580BG		-

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Dayton®

JET PUMP MOTOR

Part No 6K580BG

HP: 1/2
VOLTS: 115/230
AMPS: 9.0/4.5
RPM: 3450
DUTY: CONT
SF: 1.6
KVA CODE: L
ENCL: ODP

PH: 1
HZ: 60
FR: 56J
INS CL: B
AMB: 40 °C
SFA: 11.2/5.6

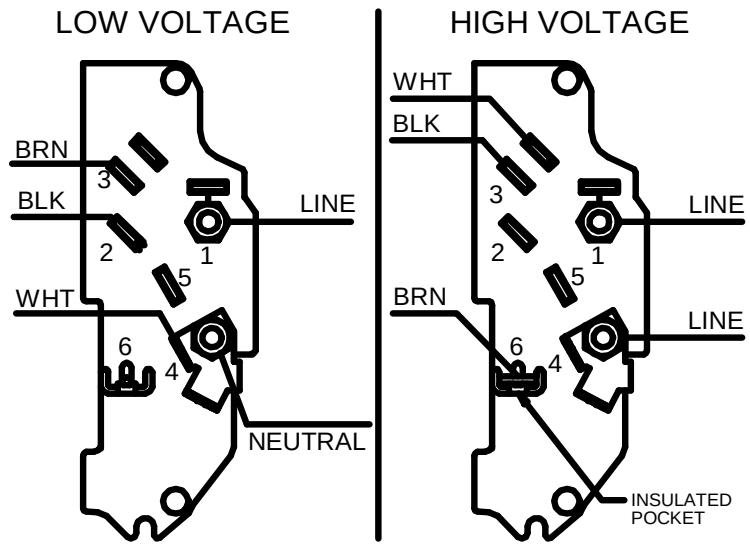
THERMALLY PROTECTED: AUTO

MFG. NO. [ ] [ ] PROT. CODE : [00420] AVG. F.L. EFF.

MTR REF: C55CXJYN-2152

Disconnect Power Before Making Any Electrical Connections or Changes

CONNECTIONS



MOTOR IS NON-REVERSIBLE
CCW ROTATION SHAFT END

E37403

258501

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

Made in Mexico