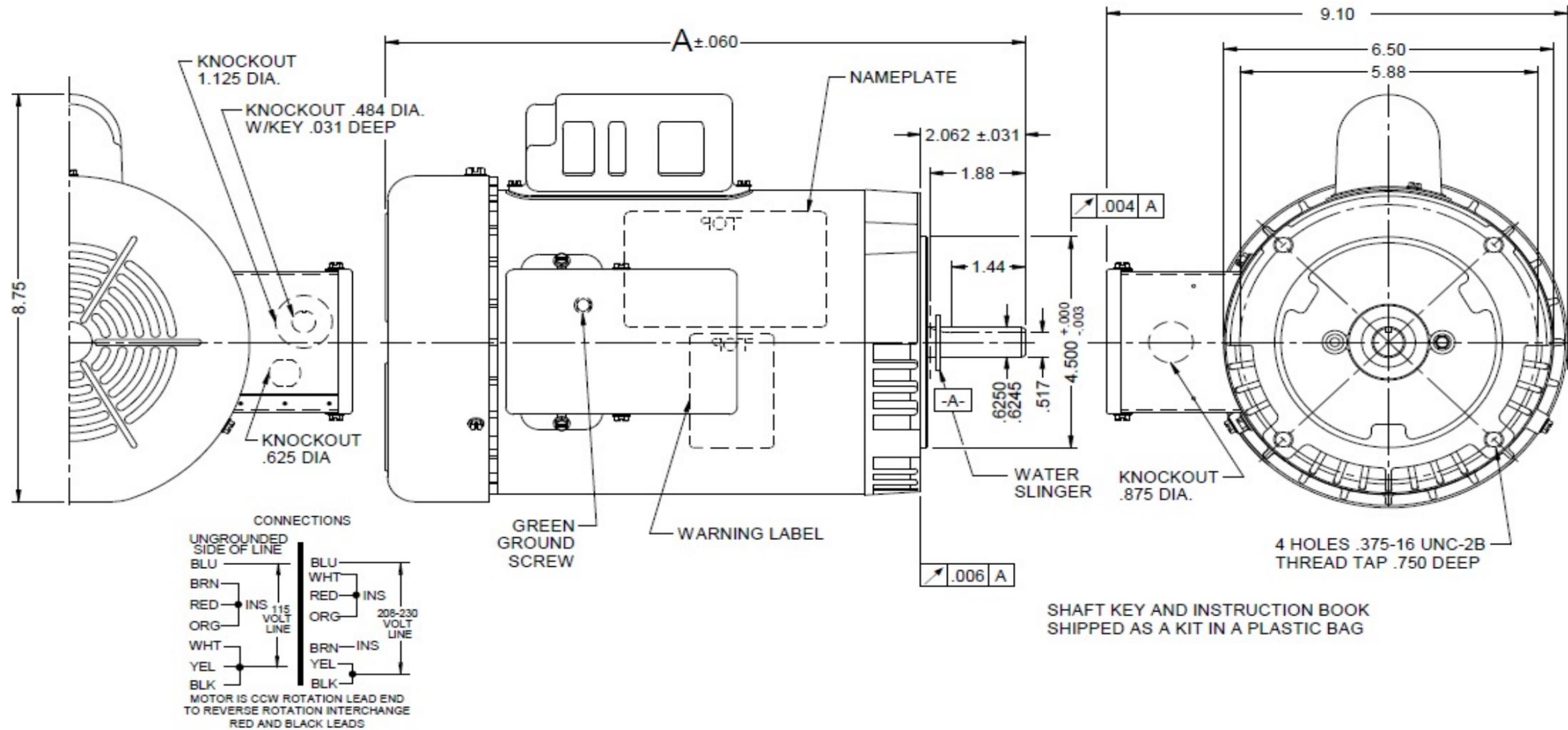


Dimensional Drawing

5GD57BG

REV.
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VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	C63CXJCG-1326	5GD57BG	11.38	---	---	---	1/2	115/208-230	1.15	9.0/4.3-4.5	60	1725	---	AUTO	56C, TEFC, BALL BEARING



DRAWING NO. PAGE 1 of 1 REV.
5GD57BG -

Performance Data



5GD57BG

REV.
-

MOTOR PERFORMANCE

HP:	1/2						
Poles:	4						
No. of Speeds:	1						
Volts:	115/208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1.15						
Efficiency:	@ Rated Load	66.0	63.5	63.6			
Power Factor:	@ Rated Load	60.6	69.6	61.8			
Amps:	@ No Load						
	@ Rated Load	8.3	4.1	4.2			
	@ Service Factor	8.8	4.5	4.5			
	@ Locked Rotor	38.6	17.5	19.7			
RPM:	@ Rated Load	1733	1711	1729			
Ambient (°C):	40						
Altitude (FASL):							
Torques:	Breakdown	61.9	50.1	62			
	Locked Rotor	98.3	72.2	86.7			
	Pull-Up	98.3	71.7	86.3			
	Rated Load	24.3	24.3	24.3			
	Service Factor	28.1	28.6	28.2			
Watts:	Rated Load	583	601	603			
KVA Code:	L	K	J	L			
Temperature Rise:	@ Rated Load	69.8	67	70.9			
	@ Service Factor	79.8	80.6	80.1			
Thermal Protector:	Trip Temp (°C)	140	141.3	141.8			
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu			
	Run (Main)	Cu	Cu	Cu			
Capacitor(s):	Start (MFD / Volts)	357 mFd, 110V					
	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 REV.
5GD57BG -

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

Performance Data



5GD57BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C063JCG1326
 Motor ID: 1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

Test Conditions

5GD57BG
 Test Type: Start
 Test Number: 3
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Aamps Performance Fixture #1
 Run Cap: 0
 Start Cap: 357 µFd
 Environment:
 Tested: 4/16/2012 12:10:10 PM
 Tested By: Bribiesca, Griselda
 Gear Ratio: 1:1
 Bearing Friction: -0.51 Oz-Ft
 Windage Torque: -1.59 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
PUT OZ-FT	115.0	95.3	129.3	38.59	32.81	17.38	4181	9	98.29	0.011	0.2	94.2	356.5
	115.0	95.3	129.3	38.59	32.81	17.38	4181	9	98.29	0.011	0.2	94.2	356.5
	115.0	95.9	129.0	38.59	32.69	17.34	4184	43	100.36	0.051	0.9	94.3	356.6
	115.0	97.4	126.7	38.42	32.15	17.00	4170	187	102.77	0.229	4.1	94.4	356.0
	115.0	99.5	124.5	38.25	31.54	16.69	4160	321	108.84	0.415	7.4	94.6	355.4
	115.0	101.6	122.4	38.01	30.89	16.37	4144	444	112.92	0.597	10.7	94.8	354.8
	115.0	103.5	119.7	37.76	30.26	15.96	4117	559	117.17	0.780	14.1	94.8	353.9
	115.0	107.0	117.5	37.81	29.75	15.64	4129	665	120.99	0.958	17.3	94.9	353.2
	115.0	111.2	116.3	38.03	29.13	15.48	4169	764	126.69	1.153	20.6	95.3	353.2
	115.0	115.7	115.2	38.06	28.38	15.34	4195	856	131.82	1.344	23.9	95.8	353.1
	115.0	120.1	114.3	38.03	27.61	15.20	4210	942	136.41	1.529	27.1	96.2	352.6
	115.0	124.7	113.5	37.99	26.81	15.09	4218	1021	140.05	1.702	30.1	96.6	352.6
	115.0	129.6	113.1	37.95	26.04	15.02	4227	1092	142.77	1.856	32.8	96.9	352.5
	115.0	134.9	113.0	37.93	25.27	15.02	4239	1160	144.86	2.001	35.2	97.2	352.6
	115.0	140.4	113.1	37.87	24.49	15.07	4244	1223	145.65	2.121	37.3	97.5	353.4
	115.0	145.6	113.5	37.65	23.67	15.15	4230	1280	144.40	2.200	38.8	97.7	353.9
	115.0	148.2	113.8	36.80	22.42	15.23	4156	1332	138.50	2.196	39.4	98.2	355.0
	115.0	154.2	116.2	36.69	21.55	15.61	4157	1381	135.95	2.235	40.1	98.5	356.3
	115.0	160.0	118.7	36.62	20.78	16.02	4158	1424	131.98	2.238	40.1	98.7	358.0
	115.0	165.5	121.6	36.45	19.94	16.52	4150	1466	126.44	2.206	39.7	99.0	360.3
	115.0	171.2	125.1	36.30	19.11	17.11	4142	1502	120.26	2.151	38.7	99.2	362.6
	115.0	176.3	128.7	36.09	18.26	17.74	4126	1536	112.52	2.058	37.2	99.4	365.6
	115.0	181.7	133.0	35.91	17.43	18.47	4109	1568	104.20	1.945	35.3	99.5	368.4
	115.0	186.8	137.2	35.70	16.59	19.23	4092	1596	95.80	1.820	33.2	99.7	372.0
	115.0	191.4	141.6	35.44	15.73	20.04	4064	1623	85.35	1.649	30.3	99.7	375.4
	115.0	195.4	145.7	35.08	14.81	20.84	4023	1647	73.44	1.440	26.7	99.7	379.4
	115.0	199.2	149.4	34.71	13.93	21.62	3984	1669	62.79	1.248	23.4	99.8	383.8
	115.0	203.1	153.5	34.30	13.01	22.43	3936	1692	49.79	1.003	19.0	99.8	387.8
	115.0	206.8	157.2	34.02	12.25	23.25	3903	1712	38.11	0.777	14.8	99.8	392.3
	115.0	210.0	160.7	33.58	11.43	24.07	3852	1731	24.95	0.514	10.0	99.8	397.2
	115.0	212.4	163.7	33.06	10.54	24.80	3790	1750	11.07	0.231	4.5	99.7	401.8
	115.0	214.0	165.7	32.54	9.74	25.39	3730	1764	0.00	0.000	0.0	99.7	406.3

DRAWING NO. PAGE 1 of 8 REV.
5GD57BG -

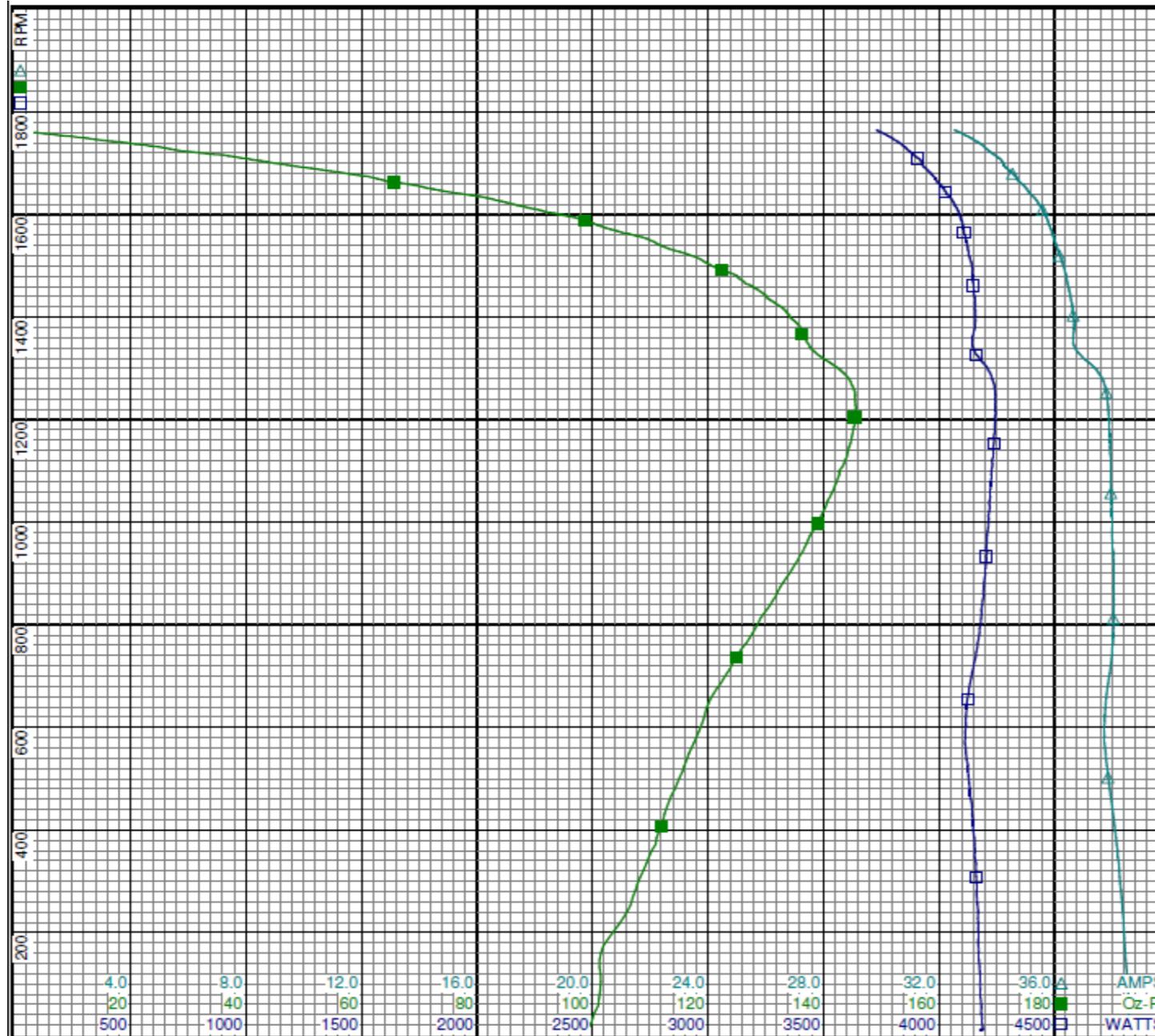
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



5GD57BG

REV.
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Dayton

Curve Descriptions:
Motor(1) Test 3 Start 115V 60 Hz 4P

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

Motor Ratings:
(1) C063JCG1326 5GD57BG

DRAWING NO.	PAGE 2 of 8	REV.
5GD57BG		-

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

Performance Data



5GD57BG

REV.

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Dayton Manufacturing Company

Filtered

Motor Description

Model: C063JCG1326
 Motor ID: 5GD57BG
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

Test Conditions

Test Type: Run
 Test Number: 14
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase Fixture #1
 Run Cap: 0
 Start Cap: 357 µFd
 Environment:
 Tested: 5/30/2013 7:03:37 PM
 Tested By: Bribiesca, Griselda
 Gear Ratio: 1:1
 Bearing Friction: -0.71 Oz-Ft
 Windage Torque: -2.83 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	107.7	0.0	6.74	172	1790	0.00	0.000	0.0	22.2
	115.0	107.6	0.0	6.74	174	1790	0.14	0.003	1.2	22.5
	115.0	107.3	0.0	6.75	188	1788	1.00	0.021	7.2	24.2
	115.0	106.7	0.0	6.78	220	1784	3.09	0.065	18.8	28.2
	115.0	105.7	0.0	6.89	275	1777	6.78	0.143	34.1	34.5
	115.0	104.5	0.0	7.13	351	1766	11.76	0.246	49.0	42.4
	115.0	102.8	0.0	7.55	448	1752	17.56	0.365	60.1	51.0
	115.0	100.6	0.0	8.18	567	1735	23.58	0.486	65.7	59.6
0.5 HP	115.0	100.3	0.0	8.27	582	1733	24.28	0.500	66.0	60.5
24.34 OZ-FT	115.0	100.3	0.0	8.28	583	1733	24.34	0.501	66.0	60.6
0.575 HP	115.0	98.8	0.0	8.78	663	1721	28.10	0.575	67.2	65.2
	115.0	97.9	0.0	9.07	707	1715	30.13	0.614	67.5	67.4
	115.0	94.6	0.0	10.20	863	1690	36.92	0.742	66.7	73.5
	115.0	90.8	0.0	11.56	1031	1662	43.57	0.862	64.3	77.9
	115.0	86.4	0.0	13.10	1205	1630	49.63	0.963	60.8	80.6
	115.0	81.4	0.0	14.78	1382	1593	54.76	1.039	56.7	82.0
	115.0	76.1	0.0	16.55	1556	1550	58.66	1.084	52.1	82.4
	115.0	70.5	0.0	18.36	1725	1502	61.07	1.095	47.2	82.2
BDT OZ-FT	115.0	64.7	0.0	20.14	1880	1448	61.87	1.071	42.2	81.5
	115.0	64.7	0.0	20.14	1880	1448	61.87	1.071	42.2	81.5
	115.0	59.0	0.0	21.85	2021	1389	61.08	1.014	37.1	80.6
	115.0	53.3	0.0	23.46	2144	1322	58.72	0.929	32.0	79.5
	115.0	47.7	0.0	24.95	2249	1250	54.99	0.823	26.9	78.4
	115.0	42.4	0.0	26.30	2337	1169	50.20	0.703	22.1	77.2
	115.0	37.3	0.0	27.51	2408	1082	44.44	0.576	17.5	76.0
	115.0	36.7	5.7	28.91	2533	987	42.17	0.489	14.0	75.9
	115.0	55.5	37.2	31.61	2977	884	61.43	0.606	14.0	80.8
	115.0	78.6	74.6	34.28	3478	773	87.11	0.755	15.0	87.2
	115.0	95.4	104.0	36.14	3848	654	106.55	0.809	15.0	92.2
	115.0	104.0	121.9	37.18	4062	524	116.53	0.745	13.4	95.1
	115.0	106.1	130.5	37.65	4154	384	118.46	0.588	10.4	96.3

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

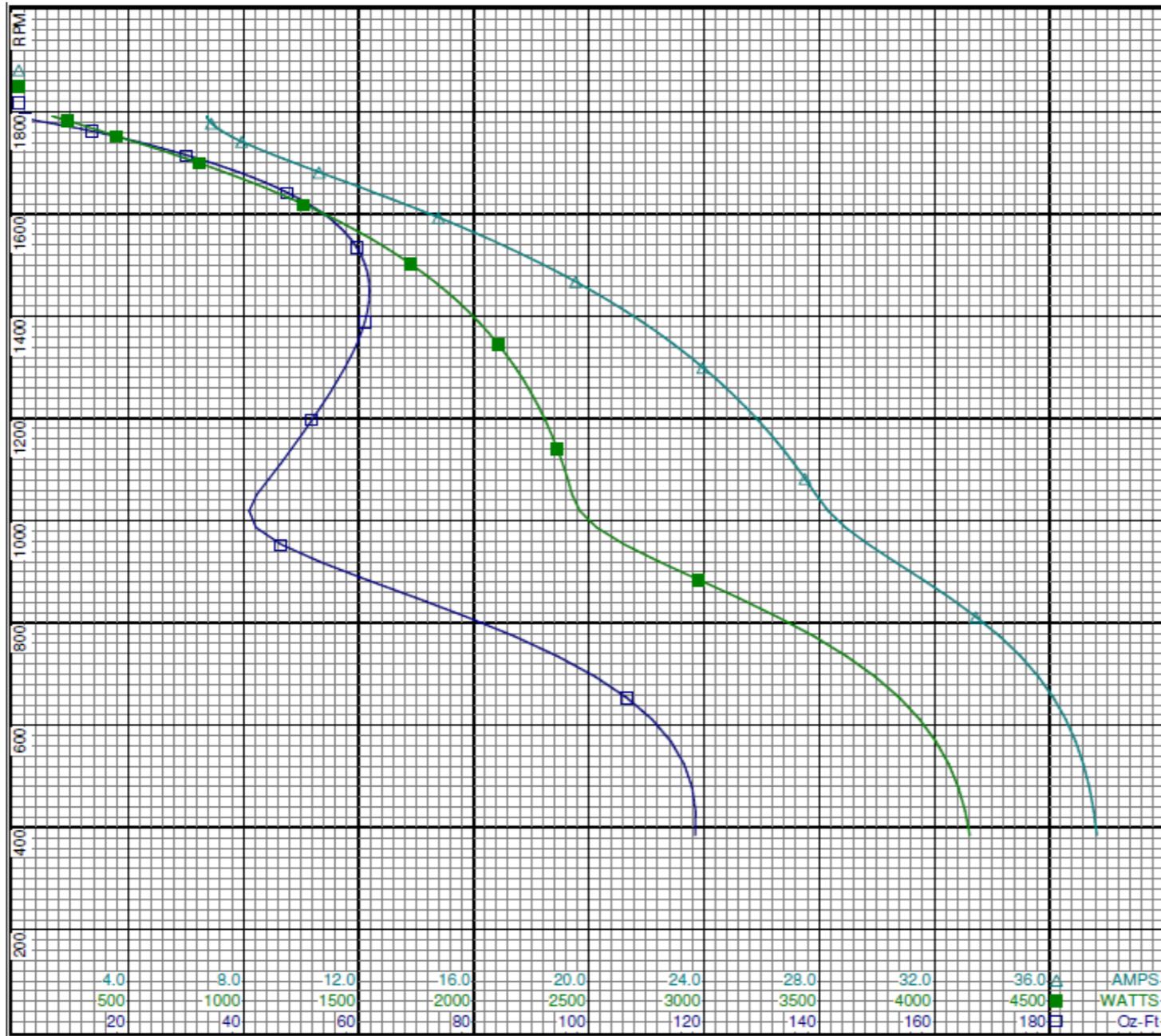
Performance Data



5GD57BG

REV.

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Curve Descriptions:

Motor(1) Test 14 Run 115V 60 Hz 4P
Filtered Data

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

Motor Ratings:

(1) C063JCG1326 5GD57BG

4.0 8.0 12.0 16.0 20.0 24.0 28.0 32.0 36.0 Δ AMPS
500 1000 1500 2000 2500 3000 3500 4000 4500 ■ WATTS
20 40 60 80 100 120 140 160 180 □ Oz-Ft

DRAWING NO.	PAGE 4 of 8	REV.
5GD57BG		-

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

Performance Data



5GD57BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C063JCG1326 5GD57BG
 Motor ID: 1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 9 Start Cap: 357 µFd
 Poles: 4 Environment:
 Volts: 230 Tested: 4/16/2012 1:14:32 PM
 Hz: 60 Tested By: Briebesca, Griselda
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.53 Oz-Ft
 Speed Conn: Windage Torque: -1.64 Oz-Ft
 TestBoard: Amtps Performance Fixture #1

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
	230.0	183.7	115.8	19.692	17.010	15.32	4117	9	86.72	0.010	0.2	90.9	351.0
PUT OZ-FT	230.0	183.8	115.9	19.698	17.013	15.32	4121	9	86.33	0.009	0.2	91.0	350.8
	230.0	184.6	115.6	19.693	16.888	15.29	4123	42	88.93	0.045	0.8	91.0	351.0
	230.0	187.4	113.6	19.614	16.375	14.96	4105	189	91.37	0.205	3.7	91.0	349.3
	230.0	191.3	111.5	19.520	15.806	14.73	4104	321	97.19	0.372	6.8	91.4	350.4
	230.0	194.3	109.4	19.361	15.233	14.41	4076	444	101.40	0.536	9.8	91.5	349.4
	230.0	198.0	106.8	19.202	14.664	14.04	4045	558	105.15	0.699	12.9	91.6	348.7
	230.0	202.5	104.7	19.212	14.051	13.74	4050	665	107.95	0.855	15.7	91.7	348.3
	230.0	207.6	103.8	19.279	13.275	13.62	4088	764	112.16	1.020	18.6	92.2	347.9
	230.0	212.4	103.0	19.230	12.409	13.52	4104	856	117.12	1.194	21.7	92.8	348.0
	230.0	217.3	102.2	19.159	11.543	13.40	4110	942	121.76	1.365	24.8	93.3	347.8
	230.0	222.3	101.5	19.038	10.664	13.30	4107	1021	125.05	1.520	27.6	93.8	347.7
	230.0	227.6	101.1	18.934	9.758	13.26	4105	1093	127.95	1.665	30.3	94.3	347.8
	230.0	232.7	101.0	18.819	8.849	13.25	4096	1160	129.66	1.791	32.6	94.6	348.0
	230.0	237.0	101.2	18.565	7.923	13.29	4066	1222	128.86	1.875	34.4	95.2	348.2
	230.0	241.4	101.8	18.292	6.971	13.40	4032	1279	127.26	1.937	35.8	95.8	349.0
	230.0	246.2	103.0	18.093	6.007	13.59	4007	1332	125.36	1.988	37.0	96.3	350.0
	230.0	251.3	104.9	17.918	5.039	13.89	3991	1380	122.84	2.019	37.7	96.8	351.1
	230.0	256.3	107.2	17.740	4.090	14.24	3968	1426	118.78	2.016	37.9	97.3	352.3
	230.0	261.1	109.9	17.564	3.181	14.66	3944	1465	114.58	1.999	37.8	97.6	353.9
	230.0	266.0	112.9	17.391	2.354	15.14	3920	1503	109.40	1.957	37.2	98.0	355.6
	230.0	270.8	116.4	17.229	1.749	15.69	3896	1537	103.09	1.886	36.1	98.3	357.6
	230.0	275.3	120.1	17.052	1.621	16.28	3866	1568	95.52	1.783	34.4	98.6	359.7
	230.0	279.5	123.7	16.861	2.037	16.89	3832	1597	87.90	1.671	32.5	98.8	362.2
	230.0	283.3	127.6	16.654	2.709	17.52	3794	1623	80.33	1.552	30.5	99.1	364.4
	230.0	286.7	131.3	16.438	3.492	18.17	3746	1648	69.58	1.365	27.2	99.1	366.9
	230.0	290.1	135.0	16.212	4.297	18.81	3703	1670	60.53	1.203	24.2	99.3	369.7
	230.0	293.0	138.9	15.932	5.211	19.50	3640	1693	48.53	0.978	20.0	99.3	372.4
	230.0	296.0	142.4	15.633	6.089	20.18	3578	1712	37.70	0.768	16.0	99.5	375.9
	230.0	297.9	145.7	15.332	6.916	20.80	3506	1733	25.68	0.530	11.3	99.4	378.6
	230.0	300.1	149.0	14.980	7.822	21.45	3427	1751	12.56	0.262	5.7	99.5	381.8
	230.0	301.7	151.8	14.628	8.688	22.05	3347	1770	0.00	0.000	0.0	99.5	385.3

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5GD57BG -

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

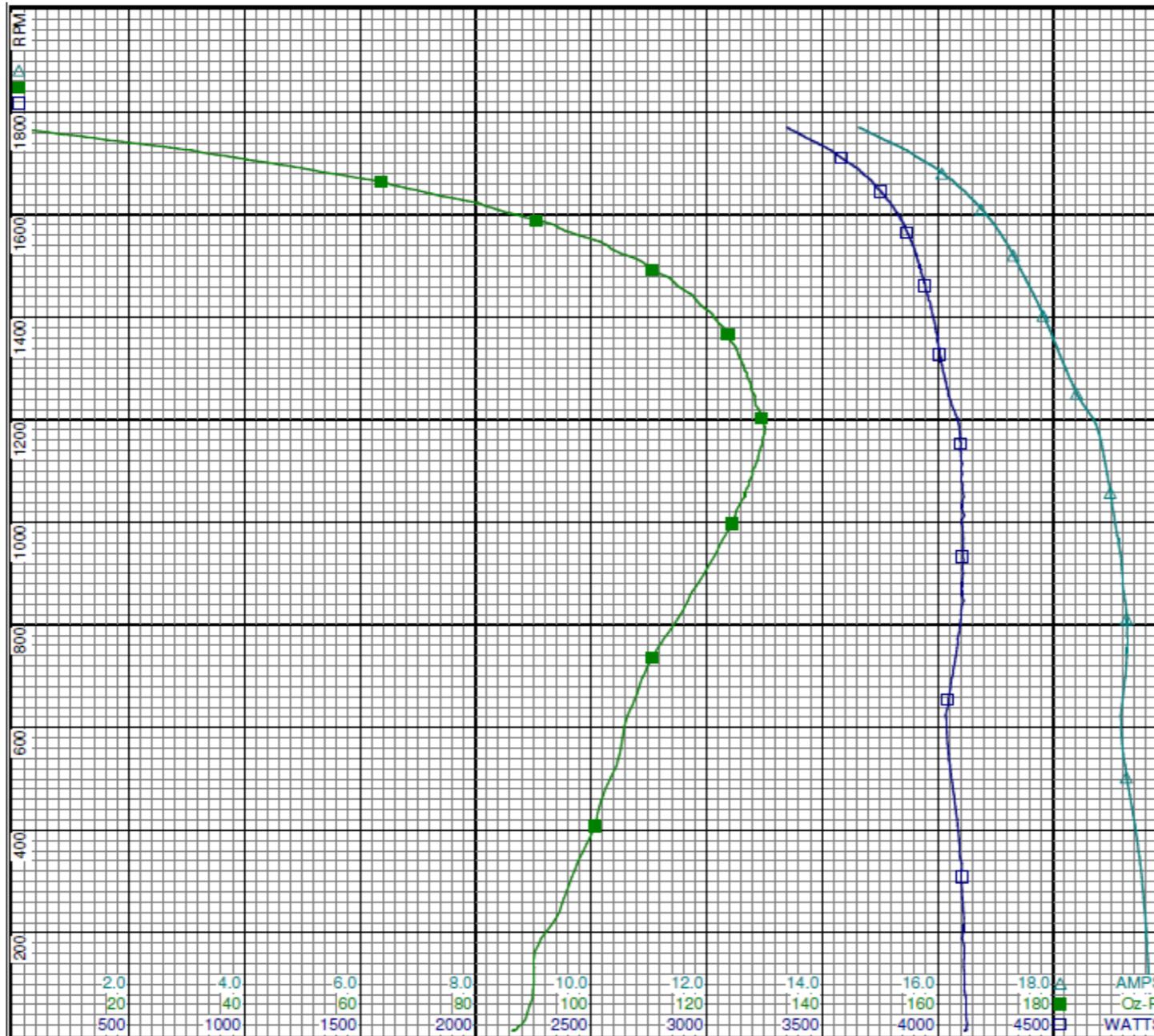
Performance Data



5GD57BG

REV.

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Curve Descriptions:

Motor(1) Test 9 Start 230V 60 Hz 4P

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

Motor Ratings:

(1) C063JCG1326 5GD57BG

DRAWING NO.	PAGE 6 of 8	REV.
5GD57BG		-

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

Performance Data



5GD57BG

REV.

-

Dayton Manufacturing Company

Filtered

Motor Description

Model: C063JCG1326
 Motor ID:
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

5GD57BG

Test Type: Run
 Test Number: 5
 Poles: 4
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase

Run Cap: 0
 Start Cap: 357 µFd
 Environment:
 Tested: 5/31/2013 12:37:36 AM
 Tested By: Bribiesca, Griselda
 Gear Ratio: 1:1
 Bearing Friction: -0.76 Oz-Ft
 Windage Torque: -2.17 Oz-Ft
 Fixture #1

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	107.7	0.0	3.353	169	1791	0.00	0.000	0.0	21.9
	230.0	107.7	0.0	3.354	170	1791	0.07	0.001	0.6	22.1
	230.0	107.5	0.0	3.362	182	1790	0.71	0.015	5.2	23.5
	230.0	106.9	0.0	3.381	208	1786	2.37	0.050	15.3	26.7
	230.0	106.1	0.0	3.426	255	1779	5.40	0.114	29.3	32.2
	230.0	105.0	0.0	3.524	324	1769	9.73	0.204	43.7	39.6
	230.0	103.3	0.0	3.702	414	1756	14.87	0.310	54.7	48.1
	230.0	101.3	0.0	3.980	526	1740	20.50	0.424	61.1	56.9
0.5 HP	230.0	99.8	0.0	4.203	603	1729	24.34	0.500	63.6	61.8
24.34 OZ-FT	230.0	99.8	0.0	4.203	603	1729	24.34	0.500	63.6	61.8
	230.0	98.8	0.0	4.372	657	1721	26.99	0.552	64.7	64.9
0.575 HP	230.0	98.2	0.0	4.455	682	1717	28.17	0.575	65.0	66.1
	230.0	95.7	0.0	4.888	805	1698	33.86	0.684	65.5	71.5
	230.0	92.1	0.0	5.508	963	1671	40.75	0.810	64.6	76.3
	230.0	88.1	0.0	6.218	1129	1640	47.22	0.922	62.2	79.5
	230.0	83.6	0.0	7.012	1300	1604	52.89	1.011	58.8	81.3
	230.0	78.6	0.0	7.869	1474	1563	57.37	1.069	54.6	82.1
	230.0	73.2	0.0	8.753	1643	1517	60.40	1.094	49.8	82.1
	230.0	67.5	0.0	9.641	1803	1466	61.84	1.083	44.7	81.7
BDT OZ-FT	230.0	65.6	0.0	9.934	1854	1447	61.96	1.071	42.9	81.4
	230.0	61.8	0.0	10.509	1950	1408	61.69	1.038	39.4	80.9
	230.0	56.0	0.0	11.339	2082	1343	59.91	0.963	34.2	79.9
	230.0	50.4	0.0	12.113	2196	1273	56.77	0.865	29.0	78.8
	230.0	44.9	0.0	12.817	2292	1195	52.48	0.751	24.1	77.7
	230.0	39.7	0.0	13.455	2370	1110	47.09	0.626	19.4	76.5
	230.0	35.7	1.2	14.065	2449	1017	41.75	0.507	15.1	75.6
	230.0	47.1	23.2	15.256	2790	916	52.93	0.550	13.8	78.6
	230.0	66.6	57.1	16.648	3257	808	73.77	0.667	14.2	84.0
	230.0	82.2	86.0	17.692	3630	691	91.26	0.725	14.2	88.6
	230.0	90.7	104.8	18.311	3858	565	101.08	0.687	12.9	91.6
	230.0	93.0	114.6	18.614	3966	429	103.57	0.563	10.4	92.9

DRAWING NO.	PAGE 7 of 8	REV.
	5GD57BG	-

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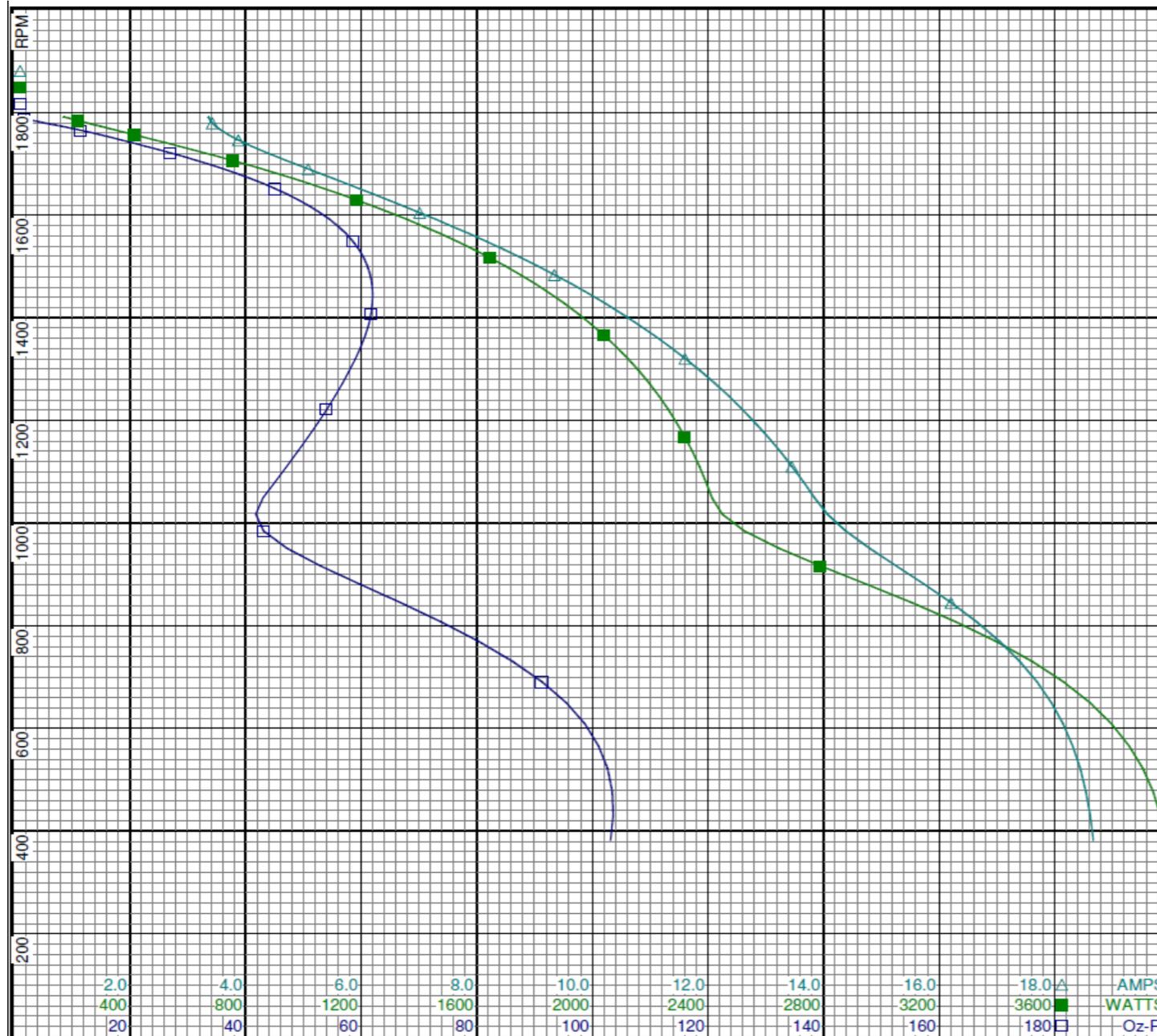
Performance Data



5GD57BG

REV.

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Curve Descriptions:

Motor(1) Test 5 Run 230V 60 Hz 4P
Filtered Data

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

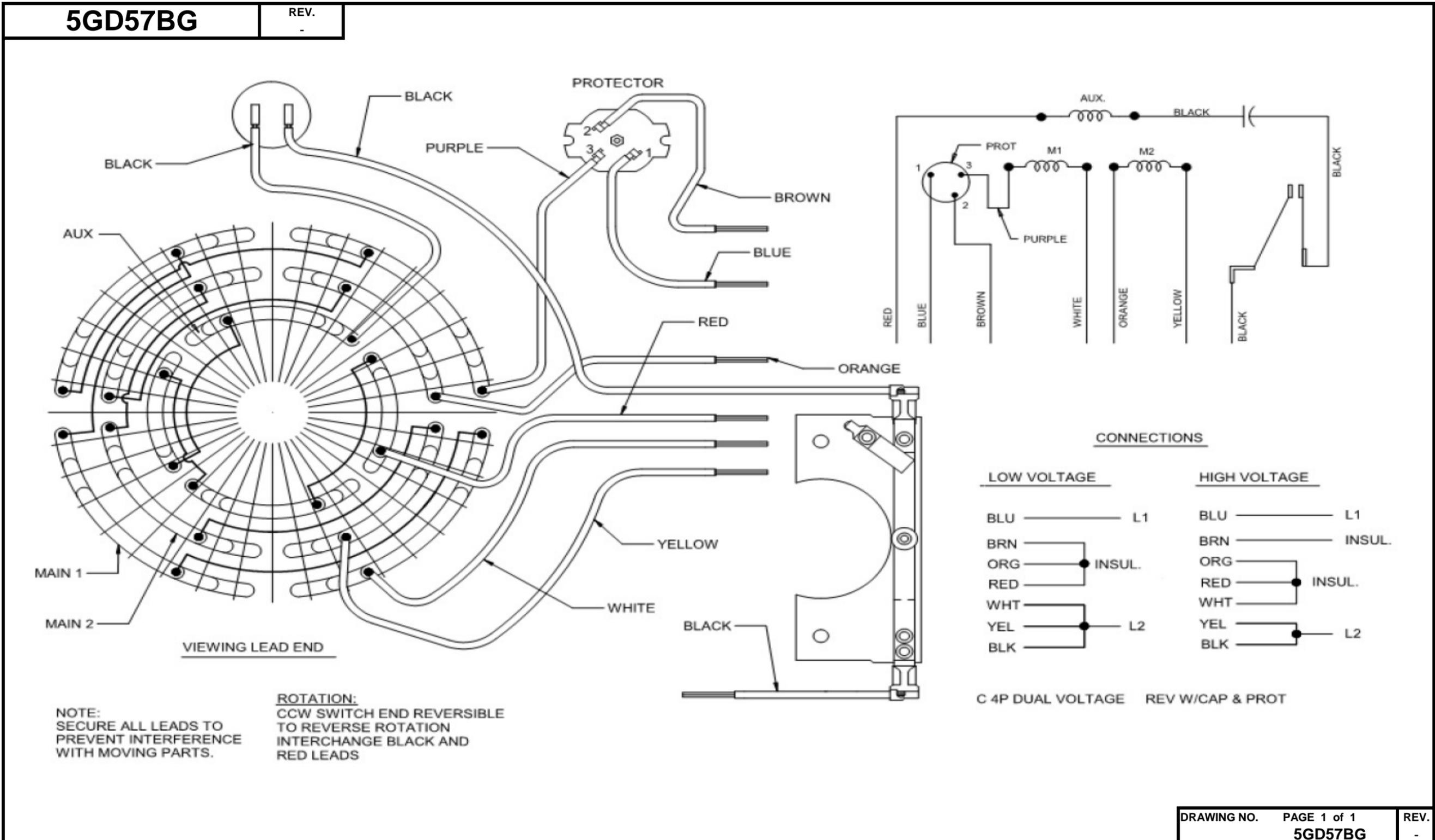
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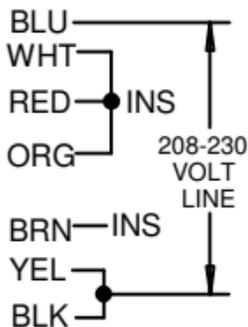
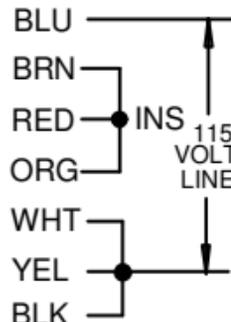
(1) C063JCG1326 5GD57BG

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5GD57BG		-

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Wiring Diagram



Dayton®**INDUSTRIAL MOTOR****HP:** 1/2**VOLTS:** 115/208-230Part No **5GD57BG****AMPS:** 9.0/4.3-4.5**RPM:** 1725**DUTY:** CONT**SF:** 1.15**KVA CODE:** L**ENCL:** TEFC**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 00470AVG. F.L.
EFF.**MTR REF:** C63CXJCG-1326**SF AT 208V IS 1.0****PH:** 1**HZ:** 60**FR:** 56C**INS CL:** B**AMB:** 40 °C**SFA:** 9.2/4.3-4.6**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS****UNGROUND
SIDE OF LINE**MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS

E37403



258501

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

Made in Mexico