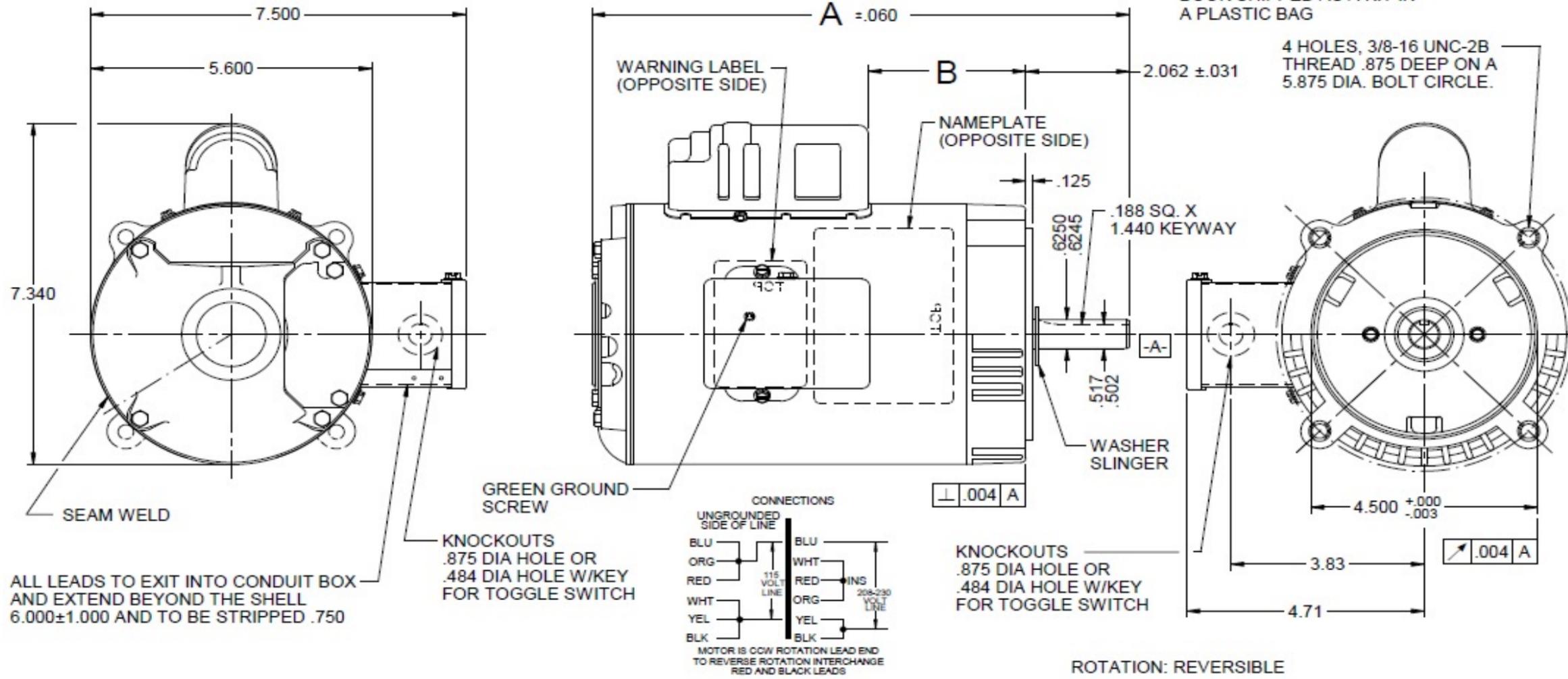


Dimensional Drawing

5GD53BG		REV.
		-

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT	DESCRIPTION / REMARKS
001	C55JDB-2181	5GD53BG	8.94	1.860	-----	-----	1/8	115/208-230	1.15	4.3/1.9-2.1	60	1725	--	NONE	56C, TENV, BALL BEARING.

NOTE: KEY AND INSTRUCTION BOOK SHIPPED AS A KIT IN A PLASTIC BAG



DRAWING NO.	PAGE 1 of 1	REV.
5GD53BG		-

Performance Data



5GD53BG

REV.
-

MOTOR PERFORMANCE

HP:	1/6						
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	53.3	56.6	54.9			
Power Factor:	@ Rated Load	48.6	56.8	49.4			
Amps:	@ No Load						
	@ Rated Load	4.3	1.9	2			
	@ Service Factor	4.3	2	2.1			
	@ Locked Rotor	23.6	10.2	11.2			
RPM:	@ Rated Load	1762	1750	1759			
Ambient (°C):	40						
Altitude (FASL):							
Torques:	Breakdown	33.7	26.4	32.9			
	Locked Rotor	53.9	36.3	42.8			
	Pull-Up	53.7	35.7	42.3			
	Rated Load	8.1	8.1	8.1			
	Service Factor	9.3	9.3	9.3			
Watts:	Rated Load	237	221.8	230			
KVA Code:	S	S	P	R			
Temperature Rise:	@ Rated Load	89.5	69.5	89			
	@ Service Factor	91.6	73.6	91.4			
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu			
	Run (Main)	Cu	Cu	Cu			
Capacitor(s):	Start (MFD / Volts)	250 mfd 125 v					
	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.
5GD53BG -

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

Performance Data



5GD53BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C055JDB218101 5GD53BG
 Motor ID: #1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/6
 Speed: 1725
 Phase: 1
 Protector: None

Test Conditions

Test Type: Start
 Test Number: 2
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 250 MFD 125 VOLT
 Environment: 24.5 Deg C 55 % RH 971 hPa
 Tested: 9/30/2016 8:29:22 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.52 Oz-Ft
 Windage Torque: -1.69 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	23.58	2490	25	53.86	0.016	0.5	91.8
PUT OZ-FT	115.0	23.52	2485	187	53.74	0.119	3.6	91.9
	115.0	23.52	2485	187	53.74	0.119	3.6	91.9
	115.0	23.51	2490	338	57.80	0.233	7.0	92.1
	115.0	23.45	2489	483	60.57	0.348	10.4	92.3
	115.0	23.27	2474	615	58.18	0.426	12.9	92.4
	115.0	23.12	2468	736	57.73	0.506	15.3	92.8
	115.0	23.02	2467	853	60.84	0.617	18.7	93.2
	115.0	22.89	2463	956	63.70	0.725	22.0	93.5
	115.0	22.74	2455	1054	65.60	0.823	25.0	93.9
	115.0	22.57	2447	1147	66.89	0.914	27.9	94.2
	115.0	22.39	2434	1224	66.99	0.976	29.9	94.5
	115.0	22.18	2419	1303	66.30	1.028	31.7	94.8
	115.0	21.98	2402	1371	64.60	1.054	32.7	95.0
	115.0	21.77	2384	1431	62.01	1.057	33.1	95.2
	115.0	11.06	1007	1489	31.83	0.564	41.8	79.1
	115.0	10.15	930	1536	31.55	0.577	46.3	79.7
	115.0	9.16	841	1581	30.39	0.572	50.7	79.9
	115.0	8.18	748	1620	28.41	0.548	54.6	79.5
	115.0	7.26	654	1653	25.59	0.504	57.5	78.3
	115.0	6.32	550	1684	22.23	0.446	60.5	75.6
	115.0	5.59	464	1708	18.89	0.384	61.8	72.1
	115.0	4.96	377	1729	14.89	0.307	60.7	66.1
	115.0	4.46	303	1747	11.48	0.239	58.7	59.2
	115.0	4.10	237	1762	7.71	0.162	50.9	50.2
	115.0	3.95	187	1774	4.86	0.103	41.1	41.1
	115.0	3.78	144	1782	2.62	0.056	28.9	33.1
	115.0	3.78	122	1789	0.75	0.016	9.8	28.0
	115.0	3.79	110	1791	0.00	0.000	0.0	25.1

DRAWING NO.	PAGE 1 of 8	REV.
	5GD53BG	-

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

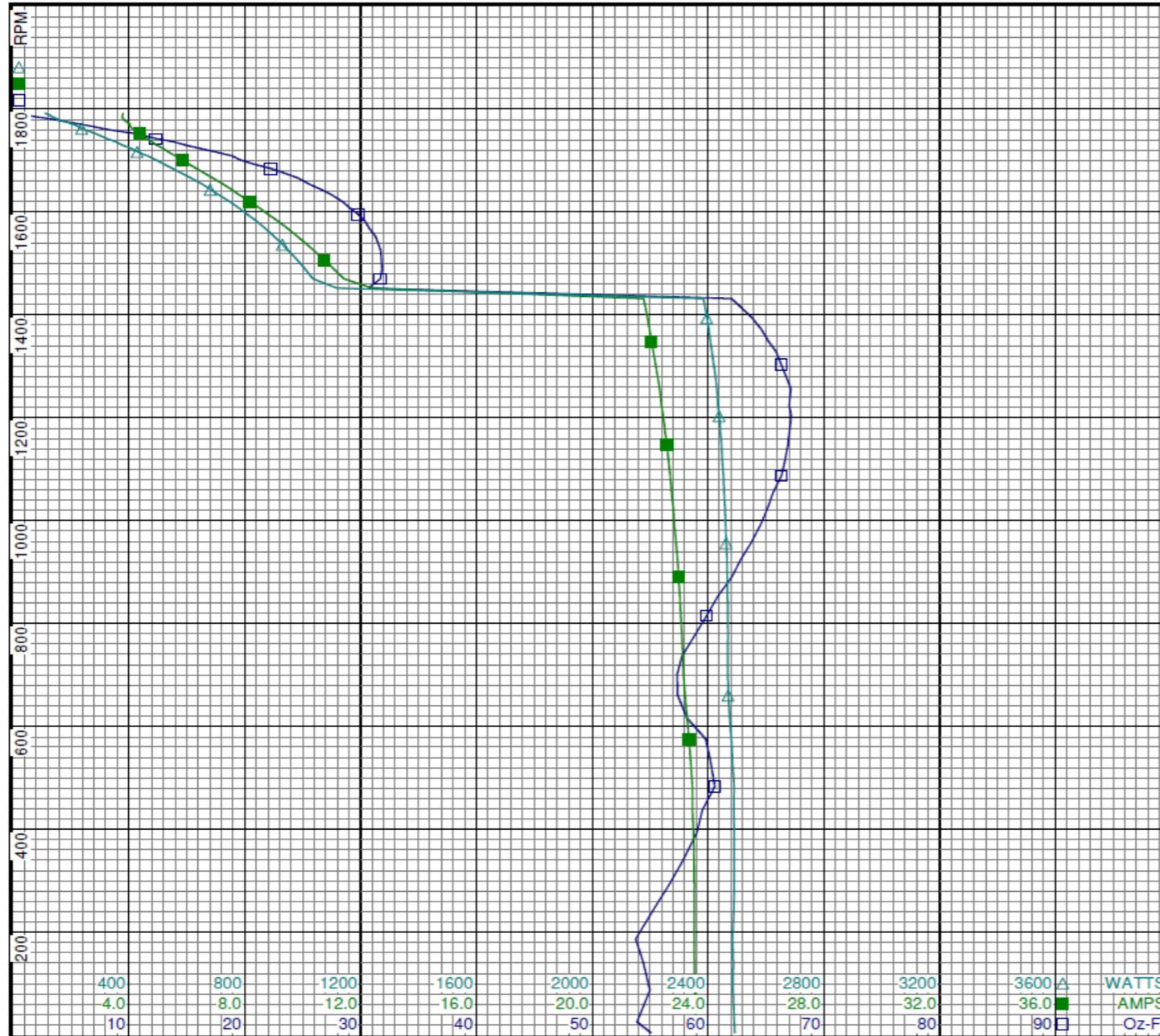
Performance Data



5GD53BG

REV.

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Curve Descriptions:

Motor(1) Test 2 Start 115V 60 Hz 4P
PERF

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

Motor Ratings:

(1) C055JDB218101 ID: #1
5GD53BG

DRAWING NO.	PAGE 2 of 8	REV.
5GD53BG		-

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

Performance Data



5GD53BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C055JDB218101 5GD53BG
 Motor ID: #1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/6
 Speed: 1725
 Phase: 1
 Protector: None

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 3 Start Cap: 250 MFD 125 VOLT
 Poles: 4 Environment: 24.5 Deg C 55 % RH 971 hPa
 Volts: 115 Tested: 9/30/2016 8:27:53 AM
 Hz: 60 Tested By: Navarro, Susana
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.51 Oz-Ft
 Speed Conn: Windage Torque: -2.01 Oz-Ft
 TestBoard: CMD InLine Three Phase #2 Fixture #1

Special Points	Vline (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	3.80	3.82	0.681	106	1790	0.00	0.000	0.0	24.1
	115.0	3.86	3.88	0.662	134	1785	1.72	0.036	20.3	30.2
	115.0	3.99	4.02	0.687	167	1777	3.47	0.073	32.7	36.5
	115.0	4.11	4.14	0.685	218	1766	6.90	0.145	49.6	46.2
0.166 HP	115.0	4.23	4.26	0.706	234	1763	7.91	0.166	52.9	48.1
8.083 OZ-FT	115.0	4.25	4.27	0.705	237	1762	8.08	0.170	53.3	48.6
9.296 OZ-FT	115.0	4.34	4.37	0.688	262	1757	9.30	0.194	55.4	52.4
	115.0	4.37	4.41	0.685	273	1754	9.95	0.208	56.8	54.3
	115.0	4.85	4.84	0.693	353	1737	13.73	0.284	59.9	63.3
1725 RPM	115.0	5.17	5.21	0.694	399	1725	16.31	0.335	62.6	67.1
	115.0	5.50	5.51	0.696	440	1716	17.99	0.367	62.3	69.6
	115.0	6.22	6.22	0.685	532	1693	22.22	0.448	62.8	74.4
	115.0	7.06	7.10	0.681	626	1665	25.56	0.507	60.4	77.1
	115.0	7.91	7.94	0.696	714	1636	28.58	0.557	58.1	78.6
	115.0	8.99	9.01	0.679	824	1596	31.37	0.596	54.0	79.7
	115.0	10.02	10.04	0.674	917	1554	33.14	0.613	49.9	79.6
	115.0	11.05	11.04	0.687	1006	1507	33.61	0.603	44.7	79.2
BDT OZ-FT	115.0	11.35	11.37	0.684	1030	1490	33.69	0.597	43.3	78.9
	115.0	12.01	11.99	0.673	1081	1453	33.46	0.579	39.9	78.3
	115.0	13.00	13.02	0.672	1149	1389	31.30	0.518	33.6	76.9
	115.0	13.77	13.79	0.686	1201	1327	30.45	0.481	29.9	75.9
	115.0	14.49	14.52	0.676	1242	1256	28.22	0.422	25.3	74.5
	115.0	15.17	15.18	0.657	1278	1177	25.48	0.357	20.8	73.3
	115.0	15.78	15.78	0.680	1307	1090	22.18	0.288	16.4	72.0
	115.0	16.30	16.31	0.683	1326	996	18.82	0.223	12.6	70.7
	115.0	16.75	16.75	0.660	1342	893	15.42	0.164	9.1	69.6
	115.0	23.12	23.14	0.593	2476	784	61.51	0.574	17.3	93.1
	115.0	23.21	23.23	0.590	2476	663	59.82	0.472	14.2	92.8
	115.0	23.37	23.39	0.586	2486	534	62.66	0.399	12.0	92.5
	115.0	23.45	23.46	0.598	2491	397	61.33	0.290	8.7	92.4
	115.0	23.46	23.50	0.580	2487	249	58.02	0.172	5.2	92.2
	115.0	23.46	23.51	0.591	2483	93	56.97	0.063	1.9	92.0

DRAWING NO. PAGE 3 of 8 REV.
5GD53BG -

Performance Data



5GD53BG

REV.

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Curve Descriptions:

Motor(1) Test 3 Run 115V 60 Hz 4P
PERF

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

Motor Ratings:

(1) C055JDB218101 ID: #1
5GD53BG

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5GD53BG		-

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

Performance Data



5GD53BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C055JDB218101 5GD53BG
 Motor ID: #1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/6
 Speed: 1725
 Phase: 1
 Protector: None

Test Conditions

Test Type: Start
 Test Number: 16
 Poles: 4
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 250 MFD 125 VOLT
 Environment: 24.5 Deg C 55 % RH 971 hPa
 Tested: 9/30/2016 8:38:41 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.43 Oz-Ft
 Windage Torque: -1.08 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	1.3	3.1	11.198	2288	29	42.76	0.015	0.5	88.8
PUT OZ-FT	230.0	1.4	3.1	11.160	2282	189	42.30	0.095	3.1	88.9
	230.0	1.4	3.1	11.160	2282	189	42.30	0.095	3.1	88.9
	230.0	1.4	3.1	11.118	2278	344	45.09	0.184	6.0	89.1
	230.0	1.4	3.1	11.062	2272	485	48.01	0.277	9.1	89.3
	230.0	1.5	3.2	10.972	2258	617	46.18	0.339	11.2	89.5
	230.0	1.5	3.2	10.875	2249	740	45.99	0.405	13.4	89.9
	230.0	1.5	3.2	10.779	2242	854	48.57	0.494	16.4	90.4
	230.0	1.6	3.2	10.668	2230	958	50.77	0.579	19.4	90.9
	230.0	1.6	3.2	10.537	2214	1055	52.39	0.658	22.2	91.3
	230.0	1.6	3.2	10.393	2194	1147	53.45	0.730	24.8	91.8
	230.0	1.7	3.2	10.238	2171	1229	53.46	0.782	26.9	92.2
	230.0	1.7	3.2	10.072	2145	1304	52.85	0.820	28.5	92.6
	230.0	1.7	3.2	9.903	2115	1370	51.47	0.840	29.6	92.9
	230.0	1.7	3.2	9.234	1940	1433	45.56	0.777	29.9	91.3
	230.0	1.8	3.2	5.188	958	1488	30.75	0.544	42.4	80.3
	230.0	1.8	3.2	4.720	875	1538	30.19	0.553	47.1	80.6
	230.0	1.8	3.2	4.245	785	1583	28.89	0.544	51.7	80.4
	230.0	1.8	3.3	3.806	697	1620	26.85	0.518	55.4	79.6
	230.0	1.9	3.3	3.372	605	1654	23.89	0.471	58.1	77.9
	230.0	1.9	3.3	2.990	515	1683	20.75	0.416	60.2	74.9
	230.0	1.9	3.3	2.647	428	1709	17.42	0.354	61.7	70.4
	230.0	2.0	3.3	2.362	353	1730	13.98	0.288	60.8	65.0
	230.0	2.0	3.3	2.173	285	1747	10.60	0.220	57.8	56.9
	230.0	2.0	3.3	2.023	226	1762	7.26	0.152	50.4	48.5
	230.0	2.0	3.3	1.906	176	1774	4.61	0.097	41.3	40.1
	230.0	2.1	3.3	1.909	143	1782	2.33	0.049	25.8	32.5
	230.0	2.1	3.4	1.856	111	1789	0.53	0.011	7.5	26.1
	230.0	2.1	3.4	1.843	102	1791	0.00	0.000	0.0	24.0

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5GD53BG -

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

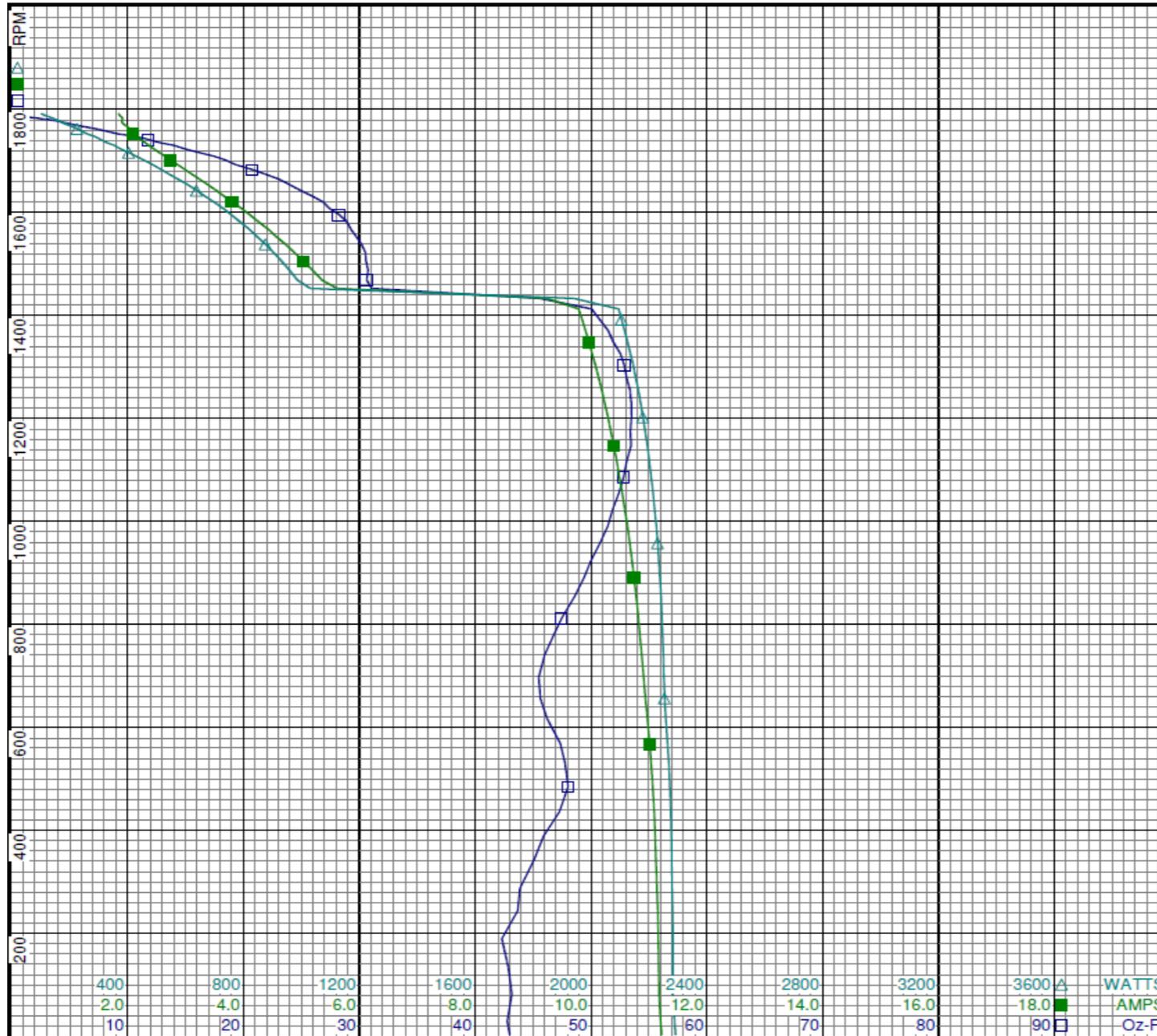
Performance Data



5GD53BG

REV.

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Curve Descriptions:

Motor(1) Test 16 Start 230V 60 Hz 4P
PERF

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

Motor Ratings:

(1) C055JDB218101 ID: #1
5GD53BG

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

Performance Data



5GD53BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C055JDB218101 5GD53BG
 Motor ID: #1
 Poles: 4
 Volts: 115/208-230
 Frequency: 60
 HP: 1/6
 Speed: 1725
 Phase: 1
 Protector: None

Test Conditions

Test Type: Run
 Test Number: 17
 Poles: 4
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 250 MFD 125 VOLT
 Environment: 24.5 Deg C 55 % RH 971 hPa
 Tested: 9/30/2016 8:39:59 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.43 Oz-Ft
 Windage Torque: -1.44 Oz-Ft

Special Points	Vline (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	230.0	3.0	1.896	101	1791	0.00	0.000	0.0	23.1
	230.0	3.0	1.875	121	1785	1.30	0.028	17.0	28.0
	230.0	3.0	1.890	154	1777	3.66	0.077	37.4	35.5
	230.0	3.0	1.984	201	1766	6.24	0.131	48.7	44.0
0.166 HP	230.0	3.0	2.015	227	1760	7.92	0.166	54.6	48.9
8.083 OZ-FT	230.0	3.0	2.021	230	1759	8.08	0.169	54.9	49.4
9.296 OZ-FT	230.0	3.0	2.099	254	1754	9.30	0.194	56.9	52.7
	230.0	3.0	2.108	257	1753	9.41	0.196	57.1	52.9
	230.0	3.0	2.285	321	1737	12.62	0.261	60.7	61.1
1725 RPM	230.0	3.0	2.436	369	1725	14.98	0.308	62.3	65.8
	230.0	3.0	2.525	399	1716	16.30	0.333	62.3	68.7
	230.0	3.0	2.842	480	1693	19.79	0.399	62.0	73.5
	230.0	3.0	3.232	573	1665	23.74	0.471	61.2	77.1
	230.0	3.0	3.667	669	1633	26.81	0.521	58.1	79.3
	230.0	3.0	4.129	763	1596	29.28	0.556	54.4	80.3
	230.0	3.0	4.586	851	1554	31.11	0.576	50.4	80.7
	230.0	3.0	5.063	937	1507	32.09	0.576	45.8	80.5
BDT OZ-FT	230.0	3.0	5.209	963	1491	32.27	0.573	44.4	80.4
	230.0	3.0	5.530	1016	1453	32.22	0.557	40.9	79.9
	230.0	3.0	5.956	1083	1396	31.55	0.524	36.1	79.1
	230.0	3.0	6.374	1144	1329	30.02	0.475	31.0	78.1
	230.0	3.0	6.587	1172	1287	28.32	0.434	27.6	77.4
	230.0	3.0	7.095	1237	1177	25.61	0.359	21.6	75.8
	230.0	3.0	7.396	1270	1090	22.75	0.295	17.3	74.7
	230.0	3.0	7.665	1297	996	19.74	0.234	13.5	73.6
	230.0	3.0	7.896	1316	893	15.83	0.168	9.5	72.5
	230.0	3.0	10.857	2254	782	49.59	0.462	15.3	90.3
	230.0	3.0	10.928	2257	663	47.93	0.378	12.5	89.8
	230.0	3.0	11.001	2265	535	49.67	0.316	10.4	89.5
	230.0	3.0	11.044	2270	397	48.97	0.231	7.6	89.4
	230.0	3.0	11.061	2270	253	45.87	0.138	4.5	89.2
	230.0	3.0	11.057	2267	93	44.53	0.049	1.6	89.2

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5GD53BG -

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

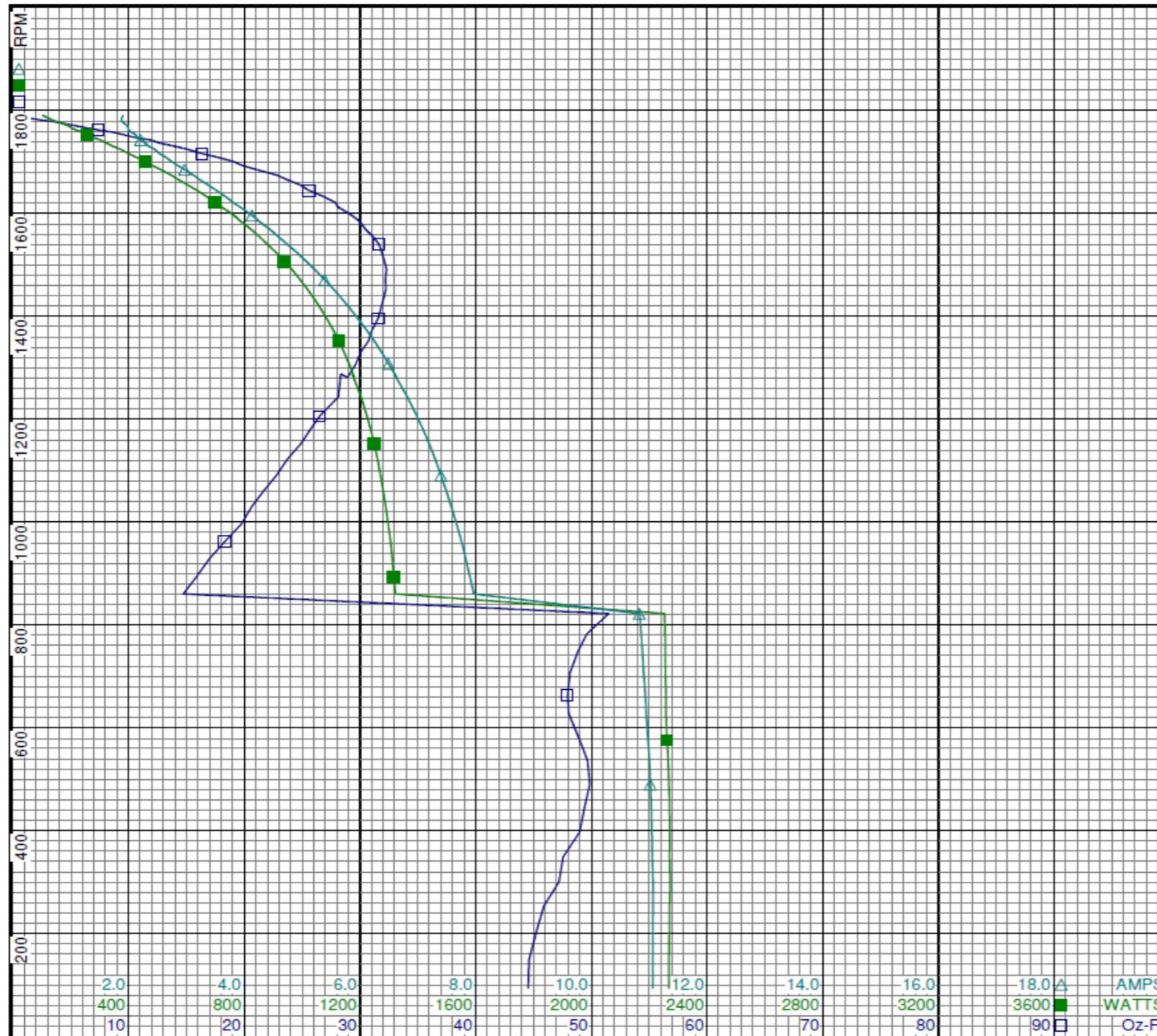
Performance Data



5GD53BG

REV.

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Curve Descriptions:

Motor(1) Test 17 Run 230V 60 Hz 4P
PERF

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

Motor Ratings:

(1) C055JDB218101 ID: #1
5GD53BG

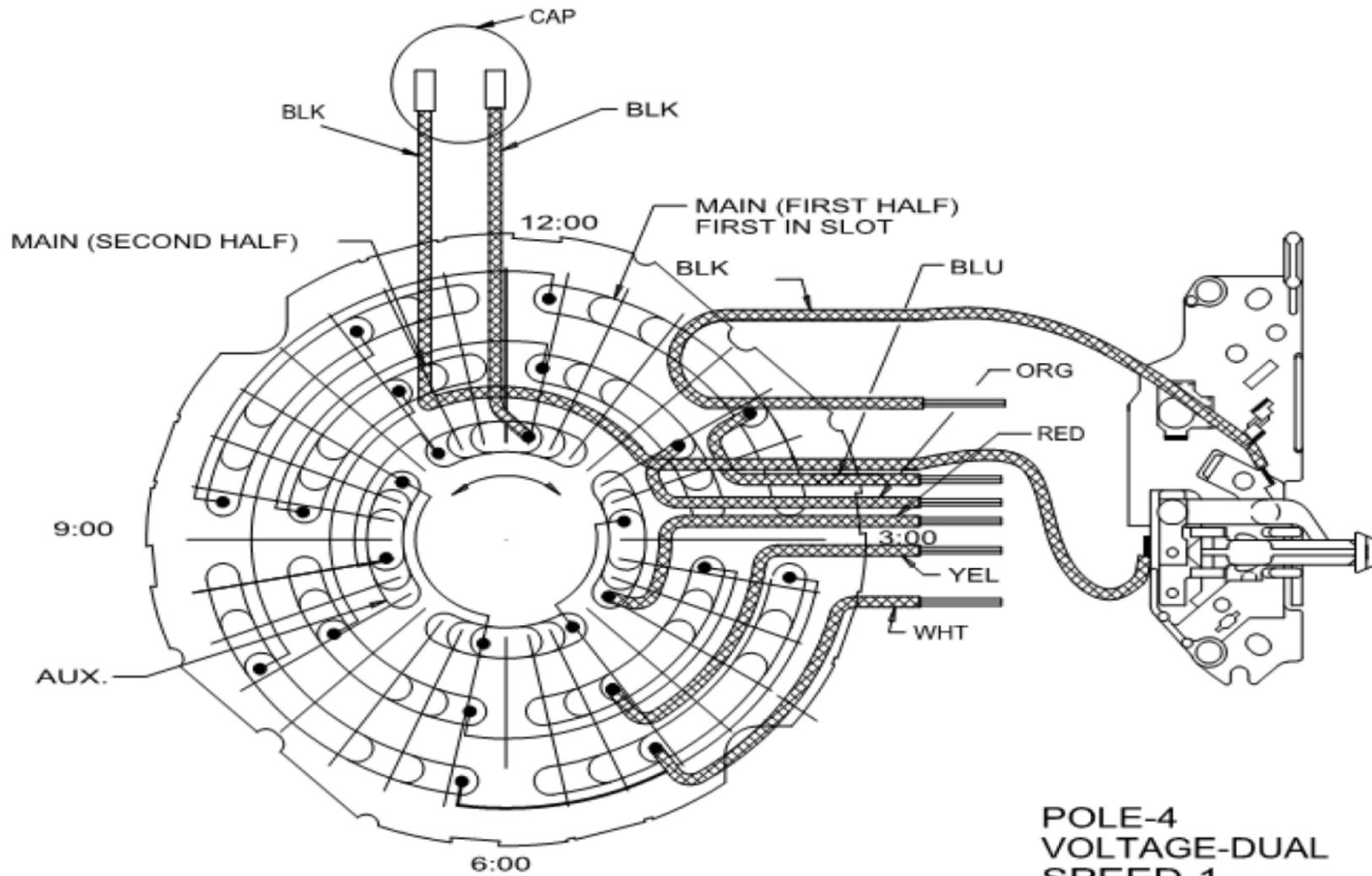
DRAWING NO.	PAGE 8 of 8	REV.
5GD53BG		-

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

Wiring Diagram

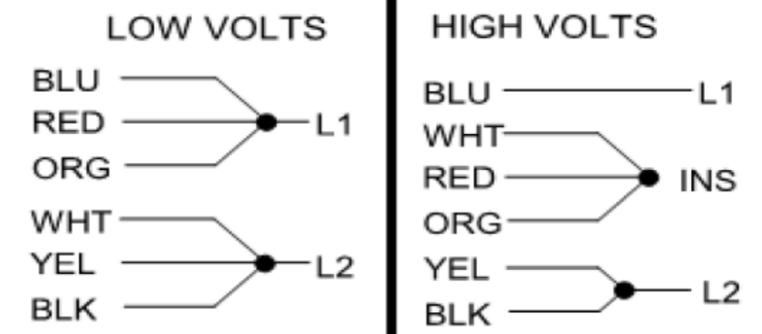
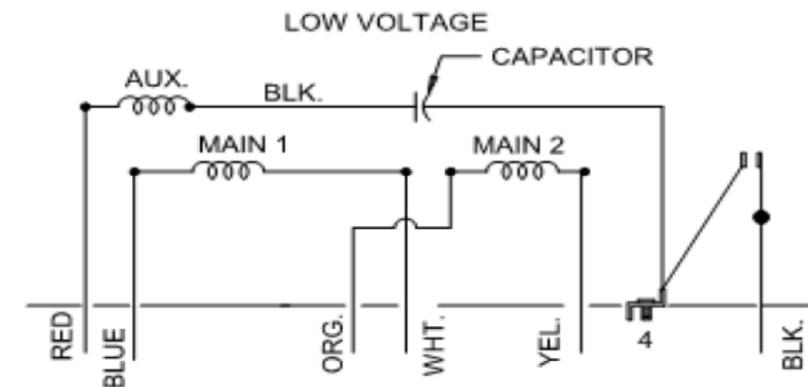


5GD53BG REV. -



VIEWING LEAD END

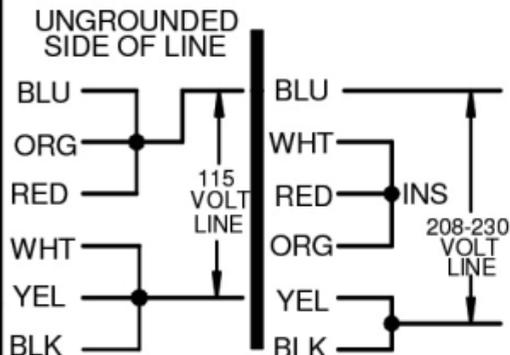
POLE-4
VOLTAGE-DUAL
SPEED-1
NO PROTECTOR
REVERSIBLE



TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

DRAWING NO. PAGE 1 of 1 REV.
5GD53BG -

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

Dayton®**INDUSTRIAL MOTOR****HP:** 1/6**VOLTS:** 115/208-230**AMPS:** 4.3/1.9-2.1**RPM:** 1725**DUTY:** CONT**SF:** 1.15**KVA CODE:** L**ENCL:** TENV**THERMALLY PROTECTED:** NONEMFG. NO. PROT. CODE: **MTR REF:** C55JDB-2181**PH:** 1**HZ:** 60**FR:** 56C**INS CL:** F**AMB:** 40 °C**SFA:** 4.4/2.1-2.2AVG. F.L.
EFF.Part
No **5GD53BG****Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS****MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS**

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

Made in Mexico