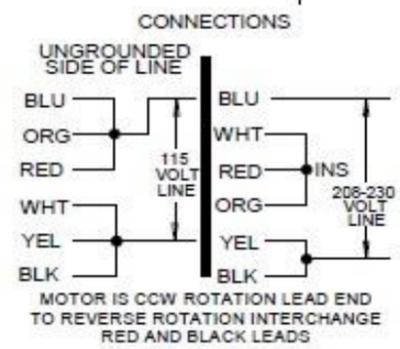
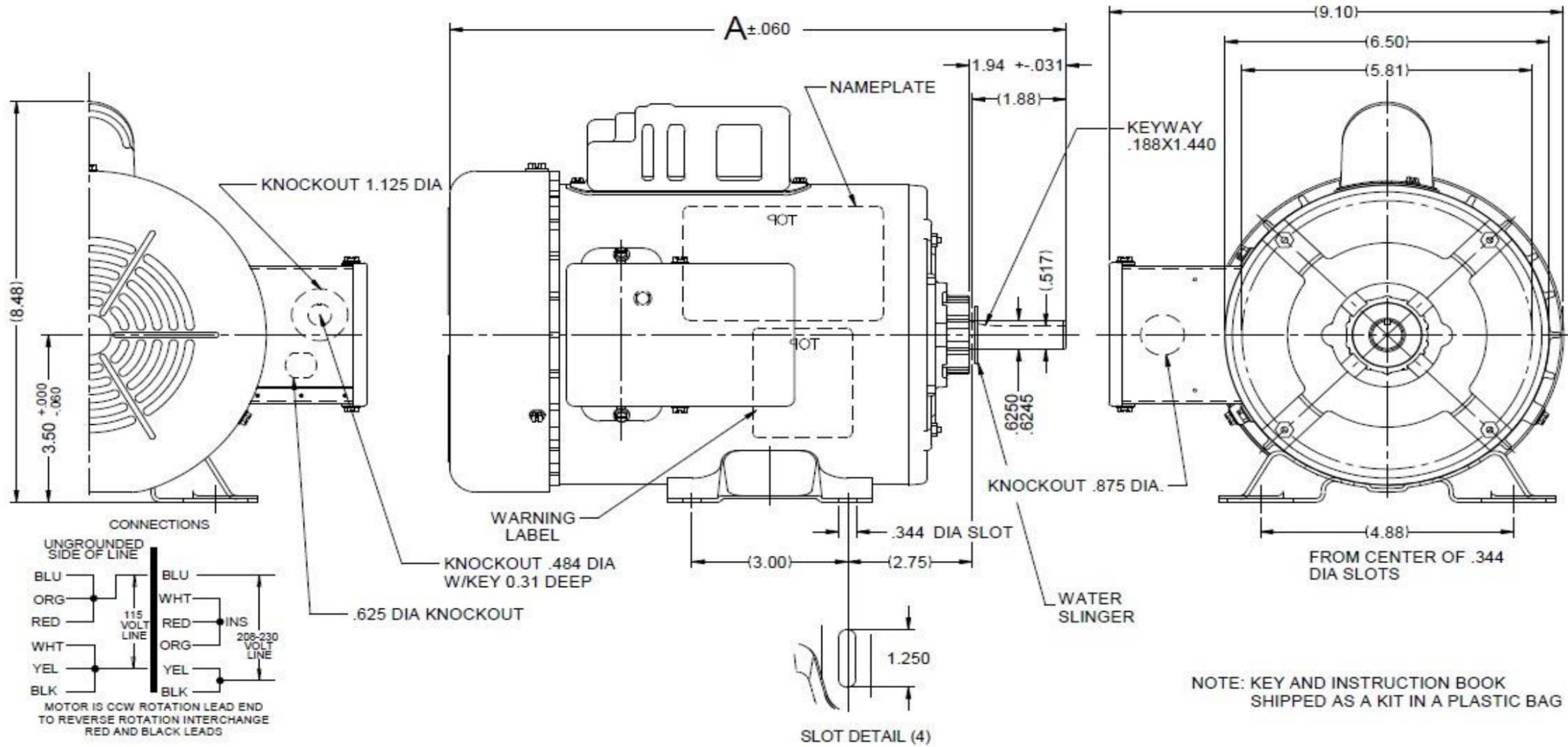


Dimensional Drawing

5K502BG

REV.
-

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	C63JGT-1364	5K502BG	11.38	--	--	--	1/3	115/208-230	1.0	6.8/3.4-3.4	60	1140	--	NONE	56, TEFC



DRAWING NO.	PAGE 1 of 1	REV.
	5K502BG	-

Performance Data



5K502BG

REV.
-

MOTOR PERFORMANCE

HP:	1/3						
Poles:	6						
No. of Speeds:	1						
Volts:	115/208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1						
Efficiency:	@ Rated Load	59.2	62.1	60.1			
Power Factor:	@ Rated Load	56.9	61.8	56.5			
Amps:	@ No Load						
	@ Rated Load	6.48	3.1	3.2			
	@ Service Factor	NA	NA	NA			
	@ Locked Rotor	30.1	13.1	14.7			
RPM:	@ Rated Load	1152	1139	1151			
Ambient (°C):	40						
Altitude (FASL):							
Torques:	Breakdown	53.3	43.8	53.8			
	Locked Rotor	84	56.2	68.6			
	Pull-Up	75.6	50.6	61.7			
	Rated Load	24.6	24.8	24.8			
	Service Factor	NA	NA	NA			
Watts:	Rated Load	424	404	422			
KVA Code:	M	M	K	M			
Temperature Rise:	@ Rated Load	52.5	47.3	51.6			
	@ Service Factor	N/A	N/A	N/A			
Thermal Protector:	Trip Temp (°C)	N/A	N/A	N/A			
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu			
	Run (Main)	Cu	Cu	Cu			
Capacitor(s):	Start (MFD / Volts)	440					
	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.
5K502BG -

Performance Data



5K502BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JGT136401 5K502BG
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/3
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 1 Start Cap: 440µfd 110 VOLTS
 Poles: 6 Environment:
 Volts: 115 Tested: 3/8/2006 3:14:09 PM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation:
 Special Cond: Gear Ratio: 1:1
 Speed Conn: 2 line Bearing Friction: -0.33 Oz-Ft
 TestBoard: Amps Performance Fixture #3 Windage Torque: -0.95 Oz-Ft

Special Points	Vline (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	30.10	30.03	0.002	3279	8	84.04	0.008	0.2	94.7
	115.0	30.10	30.04	0.002	3269	6	83.27	0.006	0.1	94.4
	115.0	30.05	29.99	0.002	3269	25	84.92	0.025	0.6	94.6
	115.0	30.02	29.96	0.001	3259	124	85.27	0.126	2.9	94.4
	115.0	30.00	29.94	0.001	3264	228	91.53	0.248	5.7	94.6
	115.0	30.00	29.95	0.001	3268	323	97.73	0.375	8.6	94.7
	115.0	30.01	29.94	0.001	3281	409	103.45	0.503	11.4	95.1
	115.0	29.85	29.79	0.002	3269	484	107.34	0.618	14.1	95.2
	115.0	29.64	29.57	0.001	3250	555	111.74	0.738	16.9	95.3
	115.0	29.49	29.42	0.002	3239	618	117.05	0.861	19.8	95.5
	115.0	29.29	29.23	0.001	3213	677	121.69	0.980	22.8	95.4
	115.0	29.06	29.00	0.001	3198	732	124.80	1.087	25.4	95.7
	115.0	28.78	28.72	0.002	3176	780	126.23	1.172	27.5	96.0
	115.0	28.49	28.42	0.002	3151	825	126.66	1.244	29.5	96.2
	115.0	17.55	17.39	0.319	1444	852	45.66	0.463	23.9	71.5
	115.0	16.05	15.96	0.017	1324	884	48.22	0.507	28.6	71.7
	115.0	15.14	15.05	0.002	1267	925	50.77	0.559	32.9	72.8
	115.0	14.21	14.12	0.001	1203	961	52.42	0.600	37.2	73.6
	115.0	13.28	13.18	0.002	1131	993	52.69	0.623	41.1	74.0
	115.0	12.39	12.28	0.001	1057	1020	52.07	0.632	44.6	74.2
	115.0	11.49	11.40	0.001	979	1045	50.60	0.629	48.0	74.1
	115.0	10.61	10.54	0.001	898	1067	48.36	0.614	51.0	73.5
	115.0	9.84	9.76	0.002	821	1084	45.62	0.589	53.5	72.6
	115.0	8.97	8.91	0.001	732	1103	41.83	0.549	56.0	70.9
	115.0	8.16	8.11	0.002	640	1120	37.11	0.495	57.6	68.2
	115.0	7.47	7.42	0.001	556	1134	32.54	0.439	59.0	64.7
	115.0	6.83	6.79	0.002	467	1148	27.04	0.370	59.1	59.4
	115.0	6.28	6.23	0.002	377	1162	20.74	0.287	56.8	52.2
	115.0	5.84	5.80	0.001	284	1175	13.75	0.192	50.5	42.4
	115.0	5.56	5.54	0.002	192	1189	5.88	0.083	32.4	30.0
	115.0	5.50	5.49	0.002	124	1198	0.00	0.000	0.0	19.6

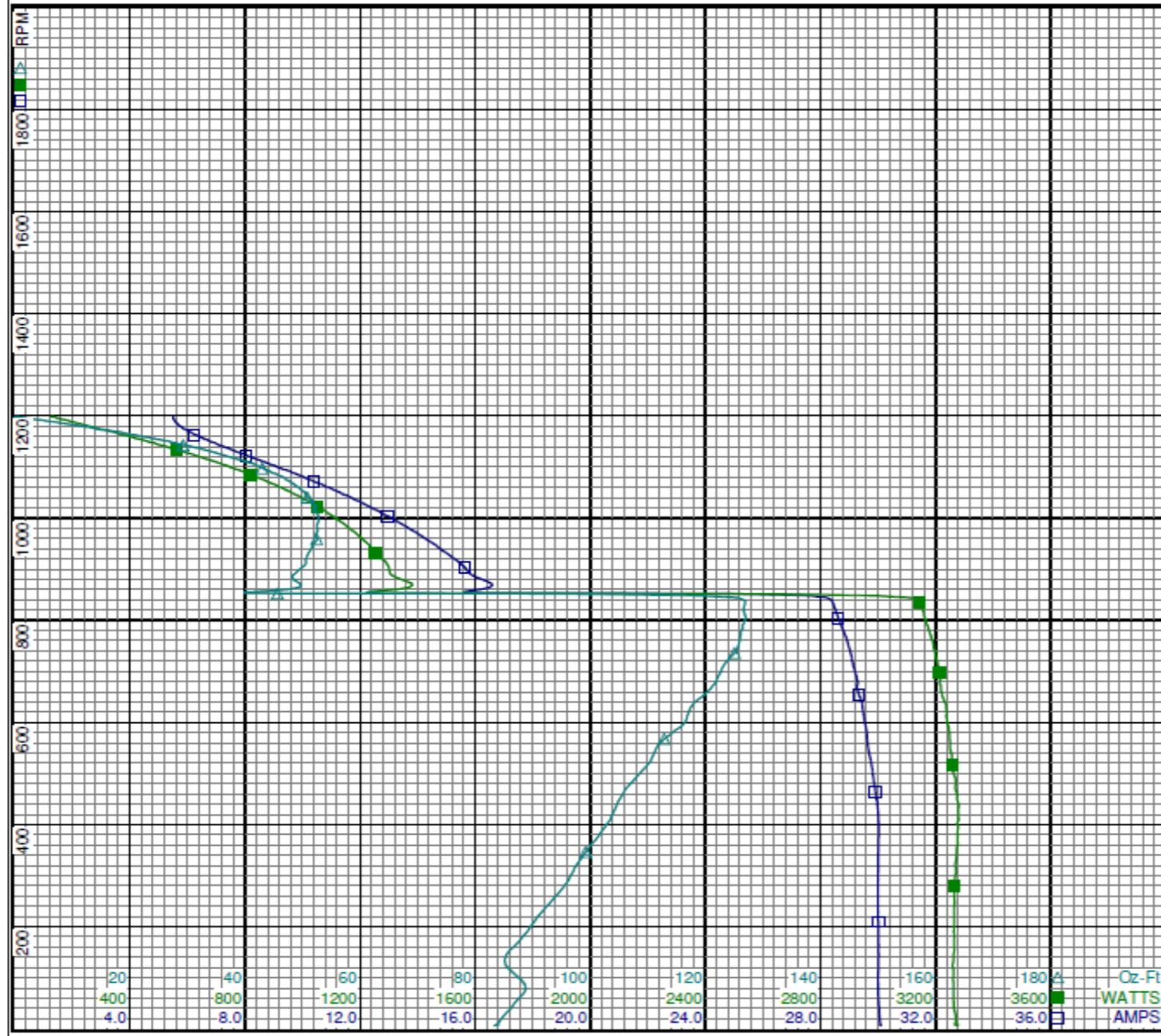
DRAWING NO. PAGE 1 of 8 REV.
5K502BG -

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

Performance Data



5K502BG REV. -



Dayton

Curve Descriptions:
 Motor(1) Test 1 Start 115V 60 Hz 6P
 2 line

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

Motor Ratings:
 (1) C083JGT138401 ID: 1
 5K502BG

DRAWING NO.	PAGE 2 of 8	REV.
	5K502BG	-

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

Performance Data



5K502BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JGT136401 5K502BG
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/3
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 2 Start Cap: 440µfd 110 VOLTS
 Poles: 6 Environment:
 Volts: 115 Tested: 3/8/2006 2:55:23 PM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation: Gear Ratio: 1:1
 Special Cond: 115V Bearing Friction: -0.16 Oz-Ft
 Speed Conn: Windage Torque: -0.70 Oz-Ft
 TestBoard: Amps Performance Fixture #3

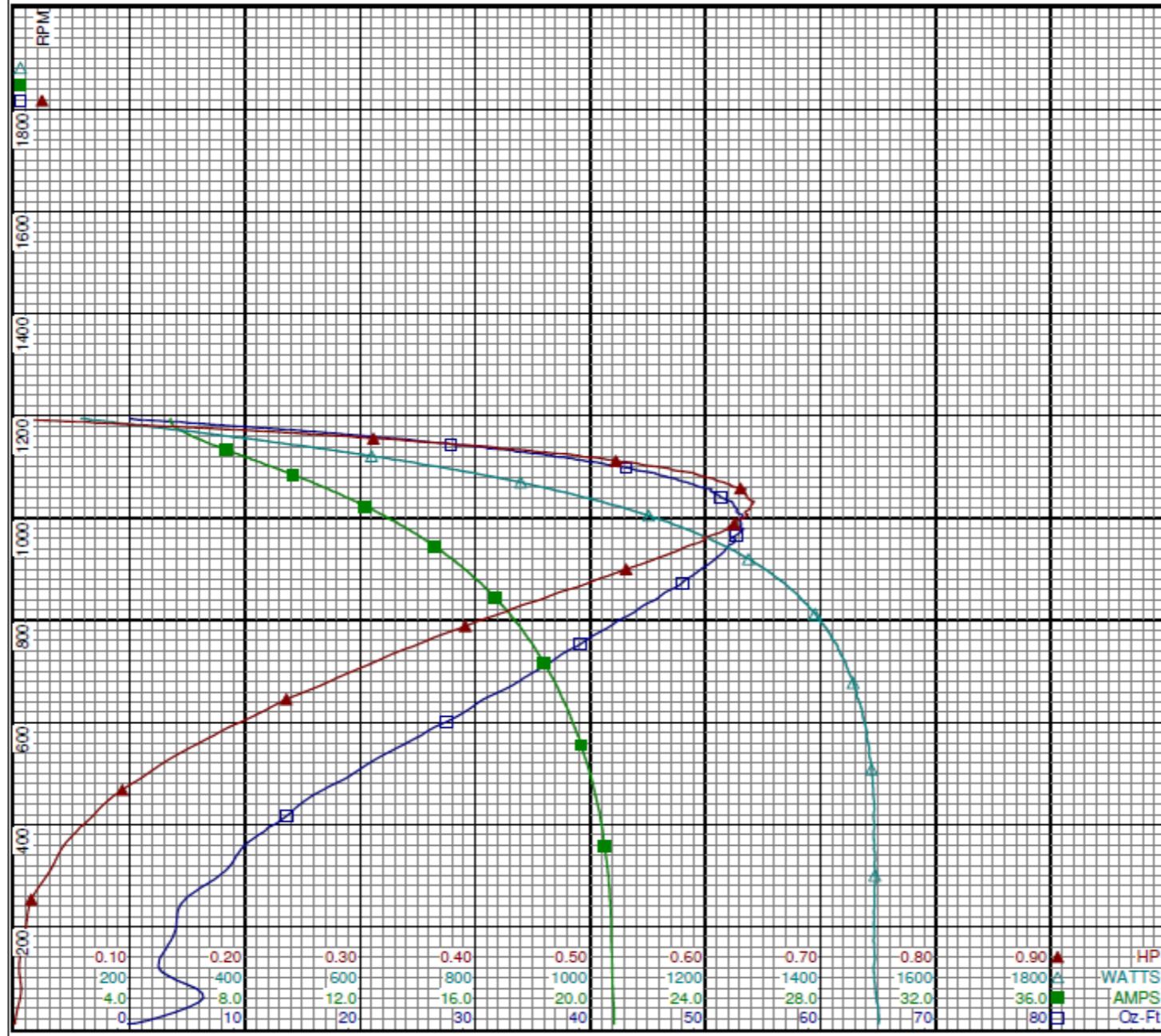
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	5.41	114.9	1195	0.00	0.000	0.0	18.5
	115.0	5.43	171.8	1187	4.61	0.065	28.2	27.5
	115.0	5.46	192.0	1184	6.14	0.087	33.6	30.6
	115.0	5.49	206.6	1182	7.52	0.106	38.2	32.8
	115.0	5.52	224.1	1179	9.23	0.130	43.1	35.3
	115.0	5.64	262.3	1175	12.28	0.172	48.8	40.4
	115.0	5.70	278.3	1172	13.82	0.193	51.7	42.4
	115.0	5.87	314.3	1168	16.36	0.228	54.0	46.5
	115.0	5.98	334.8	1165	18.03	0.250	55.7	48.7
	115.0	6.01	341.6	1164	18.42	0.255	55.7	49.4
	115.0	6.19	375.7	1159	21.18	0.292	58.0	52.8
	115.0	6.32	399.7	1156	22.66	0.312	58.2	55.0
0.333 HP	115.0	6.44	417.9	1153	24.26	0.333	59.4	56.4
24.56 OZ-FT	115.0	6.48	424.2	1152	24.56	0.337	59.2	56.9
	115.0	6.51	429.2	1151	24.80	0.340	59.1	57.3
	115.0	6.61	443.7	1149	25.70	0.352	59.1	58.4
	115.0	6.93	491.9	1142	28.99	0.394	59.8	61.7
1140 RPM	115.0	7.03	505.5	1140	30.07	0.408	60.2	62.5
	115.0	7.39	553.0	1132	33.10	0.446	60.2	65.1
	115.0	7.57	577.1	1128	34.30	0.461	59.6	66.3
	115.0	7.62	584.1	1127	34.67	0.465	59.4	66.6
	115.0	8.38	674.0	1112	39.47	0.522	57.8	70.0
	115.0	9.17	760.0	1095	43.79	0.571	56.0	72.0
	115.0	10.00	845.6	1077	47.34	0.607	53.5	73.5
	115.0	10.83	925.7	1058	50.07	0.631	50.8	74.3
	115.0	11.68	1003.0	1036	51.71	0.638	47.4	74.7
	115.0	12.51	1075.4	1013	52.68	0.635	44.1	74.7
	115.0	13.33	1140.9	989	53.11	0.625	40.9	74.4
BDT OZ-FT	115.0	13.65	1166.2	978	53.32	0.621	39.7	74.3
	115.0	14.12	1200.8	962	52.23	0.598	37.1	73.9
	115.0	14.90	1255.2	932	51.53	0.572	34.0	73.3
	115.0	15.62	1303.3	900	49.61	0.531	30.4	72.6
	115.0	16.31	1344.0	865	47.52	0.490	27.2	71.6
	115.0	16.95	1378.4	828	44.58	0.440	23.8	70.7
	115.0	17.54	1406.5	788	41.73	0.392	20.8	69.7
	115.0	18.09	1430.1	743	38.34	0.339	17.7	68.7
	115.0	18.59	1449.5	696	34.91	0.289	14.9	67.8
	115.0	19.04	1465.3	645	30.74	0.236	12.0	66.9
	115.0	19.45	1478.4	591	26.50	0.186	9.4	66.1
	115.0	19.81	1485.3	531	21.61	0.137	6.9	65.2
	115.0	20.13	1491.6	468	16.79	0.093	4.7	64.4
	115.0	20.38	1492.9	401	12.69	0.061	3.0	63.7

DRAWING NO. PAGE 3 of 8 REV.
 5K502BG -

Performance Data



5K502BG REV. -



Dayton

Curve Descriptions:
 Motor(1) Test 2 Run 115V 60 Hz 6P 115V

- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS
- ▲ SPEED vs HP

Motor Ratings:
 (1) C063JGT136401 ID: 1
 5K502BG

DRAWING NO.	PAGE 4 of 8	REV.
	5K502BG	-

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

Performance Data



5K502BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JGT136401 5K502BG
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/3
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 5
 Poles: 6
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: 2 line
 TestBoard: Amps Performance Fixture #3
 Run Cap: 0
 Start Cap: 440µfd 110 VOLTS
 Environment:
 Tested: 3/8/2006 3:25:07 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.31 Oz-Ft
 Windage Torque: -0.92 Oz-Ft

Special Points	Vline (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	14.688	14.673	0.005	3032	4	68.55	0.003	0.1	89.8
	230.0	14.686	14.675	0.005	3029	2	68.41	0.002	0.0	89.7
	230.0	14.678	14.669	0.005	3029	24	70.23	0.020	0.5	89.7
	230.0	14.658	14.645	0.005	3020	124	71.27	0.105	2.6	89.6
	230.0	14.643	14.632	0.005	3024	228	76.17	0.206	5.1	89.8
	230.0	14.602	14.590	0.004	3024	323	82.39	0.316	7.8	90.0
	230.0	14.564	14.555	0.004	3027	407	87.51	0.424	10.5	90.4
	230.0	14.469	14.457	0.003	3016	485	92.66	0.535	13.2	90.6
	230.0	14.343	14.331	0.003	3000	555	97.66	0.646	16.1	91.0
	230.0	14.218	14.204	0.004	2982	619	101.49	0.748	18.7	91.2
	230.0	14.100	14.087	0.004	2968	676	105.41	0.848	21.3	91.5
	230.0	13.938	13.927	0.005	2945	730	108.53	0.943	23.9	91.9
	230.0	13.750	13.738	0.004	2921	780	110.01	1.022	26.1	92.4
	230.0	13.579	13.568	0.004	2896	824	111.11	1.090	28.1	92.7
	230.0	8.875	8.762	0.310	1458	856	47.27	0.482	24.7	71.4
	230.0	7.974	7.944	0.018	1309	887	48.66	0.514	29.3	71.4
	230.0	7.518	7.493	0.005	1254	927	51.08	0.564	33.5	72.5
	230.0	7.058	7.033	0.004	1189	963	52.30	0.600	37.6	73.2
	230.0	6.606	6.579	0.003	1119	993	52.54	0.621	41.4	73.6
	230.0	6.156	6.129	0.003	1044	1021	52.00	0.632	45.1	73.8
	230.0	5.709	5.681	0.003	966	1045	50.63	0.630	48.6	73.6
	230.0	5.297	5.266	0.004	890	1065	48.63	0.616	51.6	73.1
	230.0	4.875	4.842	0.003	808	1085	45.70	0.590	54.5	72.0
	230.0	4.458	4.421	0.004	718	1104	41.58	0.546	56.7	70.0
	230.0	4.077	4.038	0.004	632	1119	37.40	0.498	58.8	67.3
	230.0	3.736	3.694	0.004	546	1134	32.35	0.437	59.7	63.5
	230.0	3.419	3.376	0.004	457	1148	26.83	0.367	59.8	58.2
	230.0	3.139	3.094	0.005	367	1163	20.57	0.285	57.9	50.8
	230.0	2.922	2.877	0.003	274	1176	13.38	0.187	51.0	40.8
	230.0	2.789	2.742	0.004	182	1189	5.77	0.082	33.5	28.4
	230.0	2.762	2.716	0.004	113	1198	0.00	0.000	0.0	17.8

DRAWING NO. PAGE 5 of 8 REV.
5K502BG -

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

Performance Data



5K502BG REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JGT136401 5K502BG
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/3
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run
 Test Number: 6
 Poles: 6
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond: 230V
 Speed Conn:
 TestBoard: Amps Performance Fixture #3
 Run Cap: 0
 Start Cap: 440µfd 110 VOLTS
 Environment:
 Tested: 3/8/2006 3:52:36 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.33 Oz-Ft
 Windage Torque: -0.86 Oz-Ft

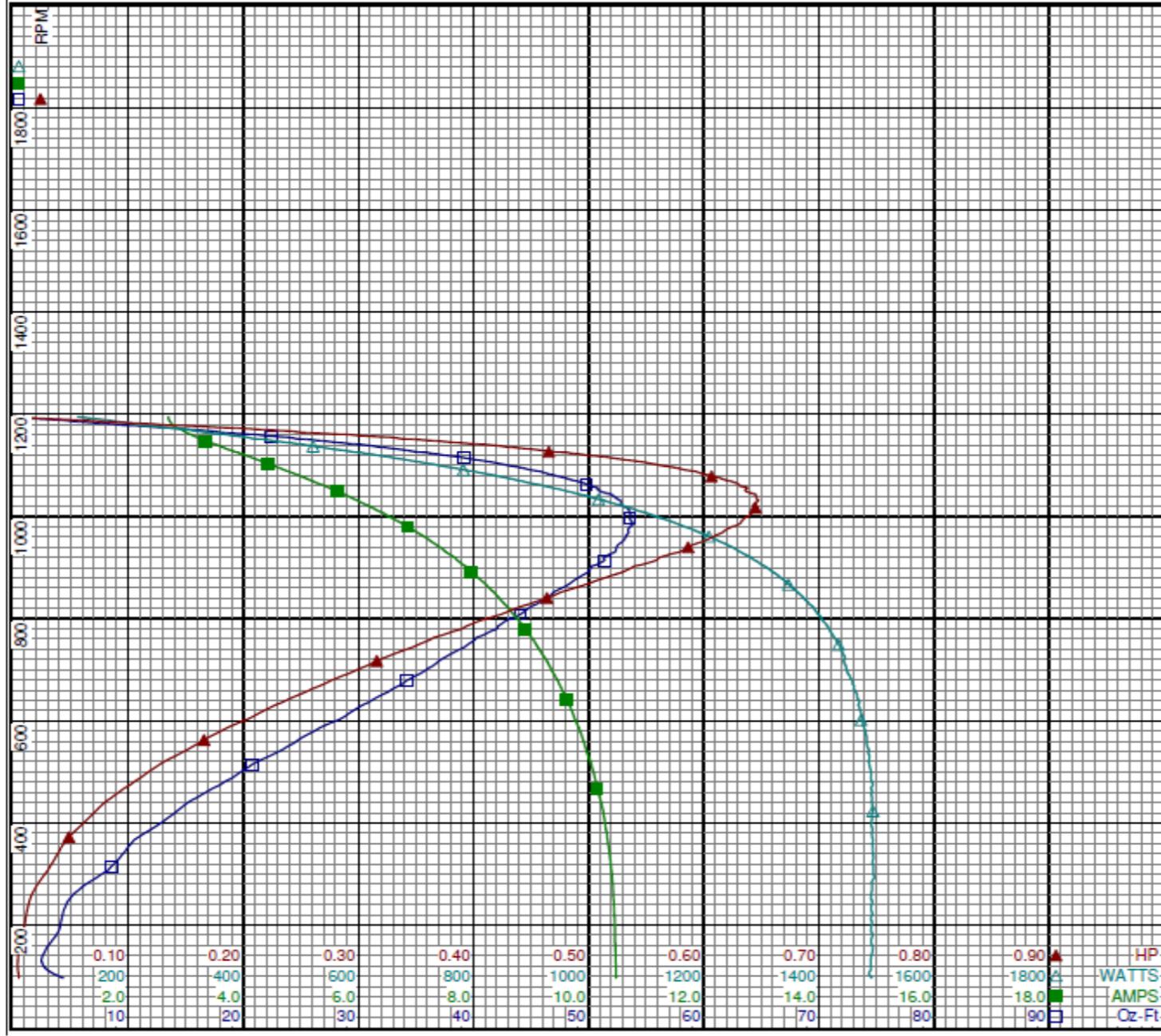
Special Points	Vline (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	2.695	2.697	0.105	112.1	1195	0.000	0.000	0.0	18.1
	230.0	2.711	2.709	0.109	169.1	1187	4.61	0.065	28.7	27.1
	230.0	2.728	2.725	0.107	188.6	1184	6.14	0.087	34.2	30.1
	230.0	2.743	2.739	0.111	202.9	1182	7.55	0.106	39.0	32.2
	230.0	2.764	2.759	0.108	220.5	1179	9.23	0.130	43.8	34.7
	230.0	2.822	2.815	0.111	257.5	1175	12.28	0.172	49.7	39.7
	230.0	2.855	2.846	0.110	273.7	1172	13.82	0.193	52.6	41.7
	230.0	2.930	2.920	0.105	305.0	1169	15.98	0.222	54.4	45.3
	230.0	3.012	2.997	0.111	338.1	1163	18.42	0.255	56.3	48.8
	230.0	2.999	2.985	0.117	333.8	1164	18.04	0.250	55.9	48.4
	230.0	3.095	3.079	0.119	371.0	1160	21.18	0.292	58.8	52.1
	230.0	3.172	3.158	0.116	398.1	1156	23.13	0.318	59.6	54.6
0.333 HP	230.0	3.214	3.199	0.115	412.0	1153	24.26	0.333	60.3	55.7
24.8 OZ-FT	230.0	3.245	3.230	0.116	421.9	1151	24.80	0.340	60.1	56.5
	230.0	3.228	3.212	0.119	416.3	1152	24.56	0.337	60.3	56.1
	230.0	3.300	3.285	0.110	438.8	1150	25.70	0.352	59.8	57.8
	230.0	3.483	3.466	0.110	492.7	1142	29.32	0.399	60.3	61.5
1140 RPM	230.0	3.524	3.507	0.108	504.2	1140	30.23	0.410	60.7	62.2
	230.0	3.698	3.681	0.108	550.6	1132	33.10	0.446	60.4	64.7
	230.0	3.798	3.781	0.108	576.6	1128	34.30	0.461	59.6	66.0
	230.0	3.829	3.812	0.106	584.2	1127	34.70	0.466	59.4	66.3
	230.0	4.219	4.198	0.109	676.3	1112	39.87	0.528	58.2	69.7
	230.0	4.628	4.608	0.107	765.7	1094	44.27	0.577	56.2	71.9
	230.0	5.033	5.017	0.106	850.6	1076	47.67	0.611	53.6	73.5
	230.0	5.463	5.447	0.100	932.5	1057	50.61	0.637	50.9	74.2
	230.0	5.886	5.873	0.107	1009.5	1035	52.38	0.646	47.7	74.6
	230.0	6.319	6.306	0.100	1082.8	1012	53.52	0.645	44.4	74.5
	230.0	6.724	6.712	0.104	1148.3	988	53.79	0.632	41.1	74.3
BDT OZ-FT	230.0	6.765	6.753	0.104	1155.0	984	53.81	0.631	40.7	74.2
	230.0	7.132	7.122	0.101	1209.2	961	53.23	0.609	37.6	73.7
	230.0	7.524	7.516	0.101	1264.3	929	52.26	0.578	34.1	73.1
	230.0	7.891	7.887	0.101	1311.4	898	50.17	0.536	30.5	72.3
	230.0	8.243	8.238	0.103	1351.5	862	47.95	0.492	27.2	71.3
	230.0	8.565	8.562	0.101	1387.2	825	45.13	0.443	23.8	70.4
	230.0	8.865	8.863	0.100	1414.6	785	42.11	0.393	20.7	69.4
	230.0	9.142	9.141	0.104	1438.5	739	38.80	0.342	17.7	68.4
	230.0	9.390	9.387	0.101	1450.5	692	35.34	0.291	15.0	67.2
	230.0	9.619	9.616	0.107	1468.7	640	31.20	0.238	12.1	66.4
	230.0	9.827	9.823	0.104	1478.5	586	26.67	0.186	9.4	65.4
	230.0	10.006	10.005	0.103	1487.8	526	21.79	0.136	6.8	64.6
	230.0	10.163	10.162	0.101	1492.2	462	16.89	0.093	4.6	63.8
	230.0	10.289	10.287	0.096	1491.0	394	12.49	0.059	2.9	63.0

DRAWING NO. PAGE 7 of 8 REV.
5K502BG -

Performance Data



5K502BG REV. -



Dayton

Curve Descriptions:
 Motor(1) Test 6 Run 230V 60 Hz 6P 230V

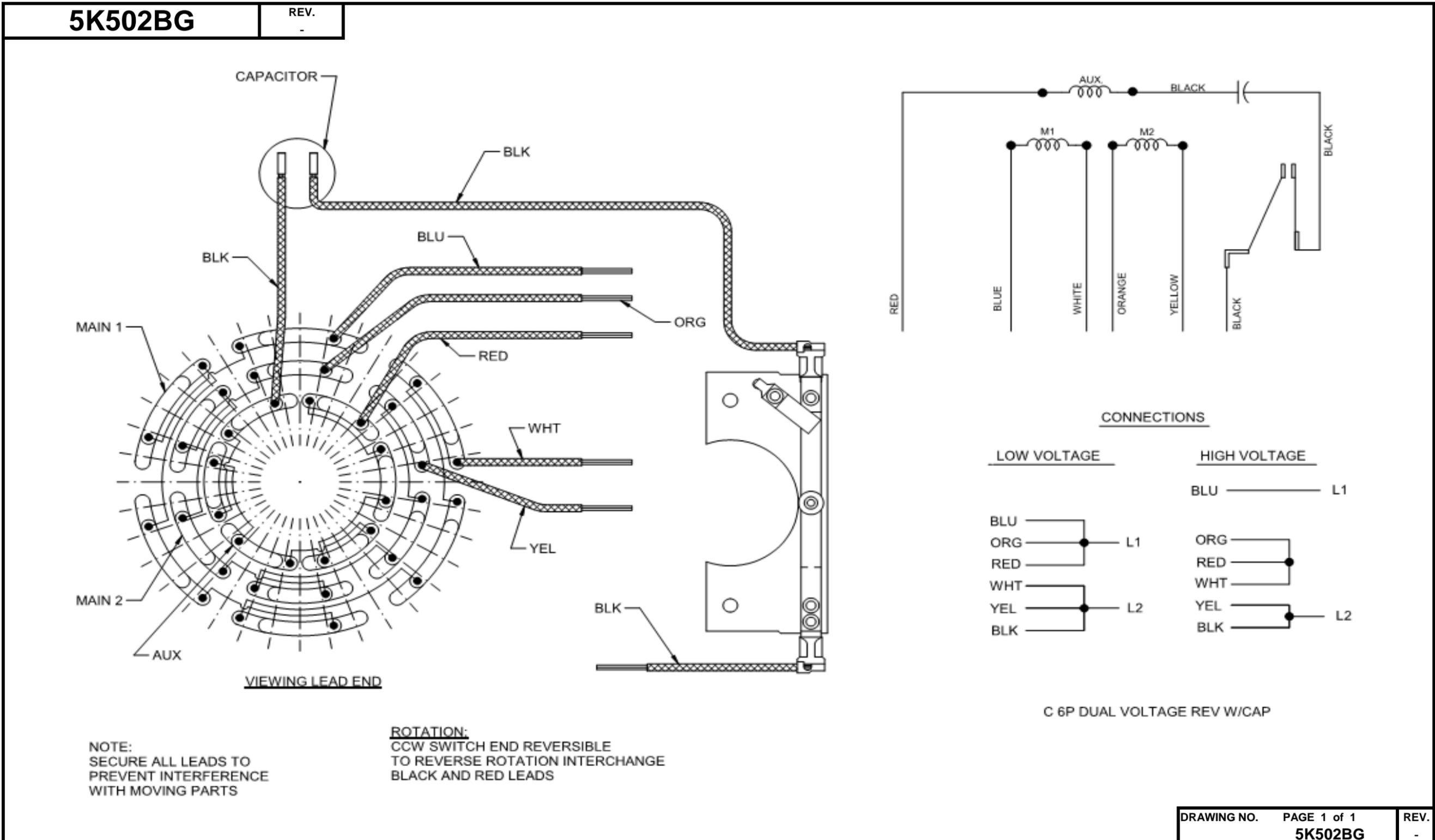
- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS
- ▲ SPEED vs HP

Motor Ratings:
 (1) C063JGT136401 ID: 1
 5K502BG

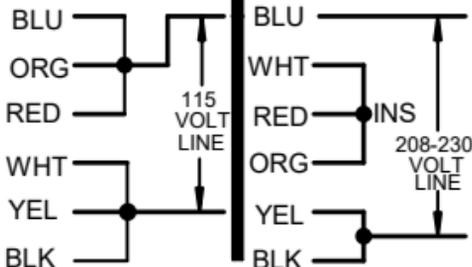
DRAWING NO. PAGE 8 of 8 REV. -
5K502BG

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

Wiring Diagram



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

Dayton[®]**INDUSTRIAL MOTOR****HP:** 1/3**VOLTS:** 115/208-230**AMPS:** 6.8/3.4-3.4**RPM:** 1140**DUTY:** CONT**SF:** 1.0**KVA CODE:** M**ENCL:** TEFC**THERMALLY PROTECTED:** NONEMFG. NO. PROT. CODE: **MTR REF:** C63JGT-1364Part No **5K502BG****PH:** 1**HZ:** 60**FR:** 56**INS CL:** B**AMB:** 40 °C**SFA:**AVG. F.L.
EFF.**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**

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

Made in Mexico