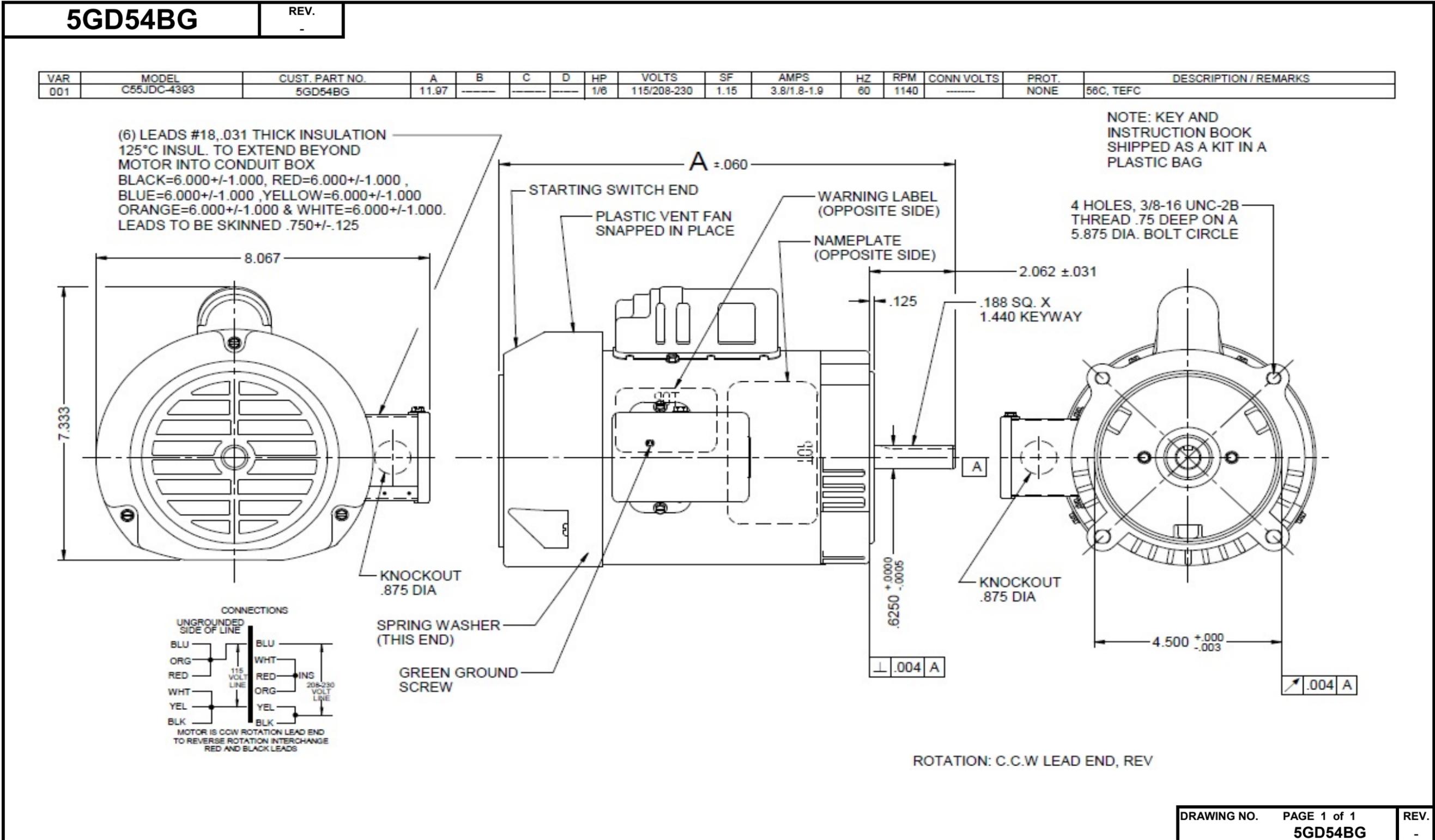


Dimensional Drawing



DRAWING NO.	PAGE 1 of 1	REV.
5GD54BG	5GD54BG	-

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

Performance Data



5GD54BG

REV.
-

MOTOR PERFORMANCE

HP:	1/6						
Poles:	6						
No. of Speeds:	1						
Volts:	115/208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1.15						
Efficiency:	@ Rated Load	54.1	54.4	54.1			
Power Factor:	@ Rated Load	52.8	58.2	52.6			
Amps:	@ No Load						
	@ Rated Load	3.8	1.9	1.9			
	@ Service Factor	3.959	1.984	1.999			
	@ Locked Rotor	14.2	6.2	7			
RPM:	@ Rated Load	1141	1124	1143			
Ambient (°C):	40						
Altitude (FASL):							
Torques:	Breakdown	25.8	29.7	26.3			
	Locked Rotor	40.5	25.7	32.1			
	Pull-Up	40.5	25.7	32.1			
	Rated Load	12.2	12.2	12.2			
	Service Factor	14.07	14.07	14.07			
Watts:	Rated Load	229	224.5	229.5			
KVA Code:	L	L	J	L			
Temperature Rise:	@ Rated Load	48.5	49	48.2			
	@ Service Factor	-	-	-			
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu			
	Run (Main)	Cu	Cu	Cu			
Capacitor(s):	Start (MFD / Volts)	198					
	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.
5GD54BG -

Performance Data



5GD54BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C055JDC4393R1 5GD54BG
 Motor ID: #1
 Poles: 6
 Volts: 115/203-230
 Frequency: 60
 HP: 1/6
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 2
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #1 Fixture #1
 Run Cap: 0
 Start Cap: 198 MFD 110 VOLT
 Environment: 24.7 Deg C 62 % RH 966 hPa
 Tested: 8/31/2016 11:18:03 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.41 Oz-Ft
 Windage Torque: -1.33 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	3.4	2.1	14.206	1581.3	11	40.46	0.005	0.2	96.8
	115.0	3.4	2.1	14.206	1581.3	11	40.46	0.005	0.2	96.8
	115.0	3.4	2.0	14.179	1578.8	124	41.84	0.062	2.9	96.8
	115.0	3.4	2.0	14.143	1576.1	225	44.02	0.118	5.6	96.9
	115.0	3.3	1.9	14.094	1572.6	323	46.99	0.181	8.6	97.0
	115.0	3.3	1.8	14.063	1571.6	411	49.60	0.243	11.5	97.2
	115.0	3.2	0.0	14.017	1569.6	491	52.69	0.308	14.6	97.4
	115.0	3.2	0.0	13.964	1567.2	567	55.41	0.374	17.8	97.6
	115.0	3.1	0.0	13.918	1566.0	637	58.37	0.443	21.1	97.8
	115.0	3.1	0.0	13.838	1561.2	704	60.99	0.511	24.4	98.1
	115.0	3.1	0.0	13.753	1556.0	765	63.08	0.574	27.5	98.4
	115.0	3.0	0.0	13.664	1549.9	818	64.47	0.628	30.2	98.6
	115.0	3.0	0.0	8.040	619.5	868	21.64	0.224	26.9	67.0
	115.0	3.0	0.0	7.599	593.3	912	23.06	0.250	31.5	67.9
	115.0	3.0	0.0	7.093	559.0	955	23.75	0.270	36.0	68.5
	115.0	2.9	0.0	6.581	520.1	993	23.86	0.282	40.4	68.7
	115.0	2.9	0.0	6.081	479.4	1024	23.29	0.284	44.2	68.6
	115.0	2.9	0.0	5.568	434.1	1052	22.25	0.279	47.9	67.8
	115.0	2.9	0.0	5.065	384.9	1078	20.29	0.260	50.5	66.1
	115.0	2.8	0.0	4.563	330.6	1103	17.67	0.232	52.4	63.0
	115.0	2.8	0.0	4.160	283.1	1122	15.06	0.201	53.0	59.2
	115.0	2.8	0.0	3.818	237.5	1139	12.24	0.166	52.1	54.1
	115.0	2.8	0.0	3.565	197.8	1153	9.48	0.130	49.0	48.3
	115.0	2.8	0.0	3.368	161.1	1165	6.74	0.093	43.3	41.6
	115.0	2.8	0.0	3.246	131.6	1174	4.41	0.062	34.9	35.2
	115.0	2.8	0.0	3.171	107.6	1182	2.35	0.033	23.0	29.5
	115.0	2.8	0.0	3.132	89.1	1187	0.79	0.011	9.3	24.7
	115.0	2.8	0.0	3.121	79.9	1190	0.00	0.000	0.0	22.3

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5GD54BG -

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

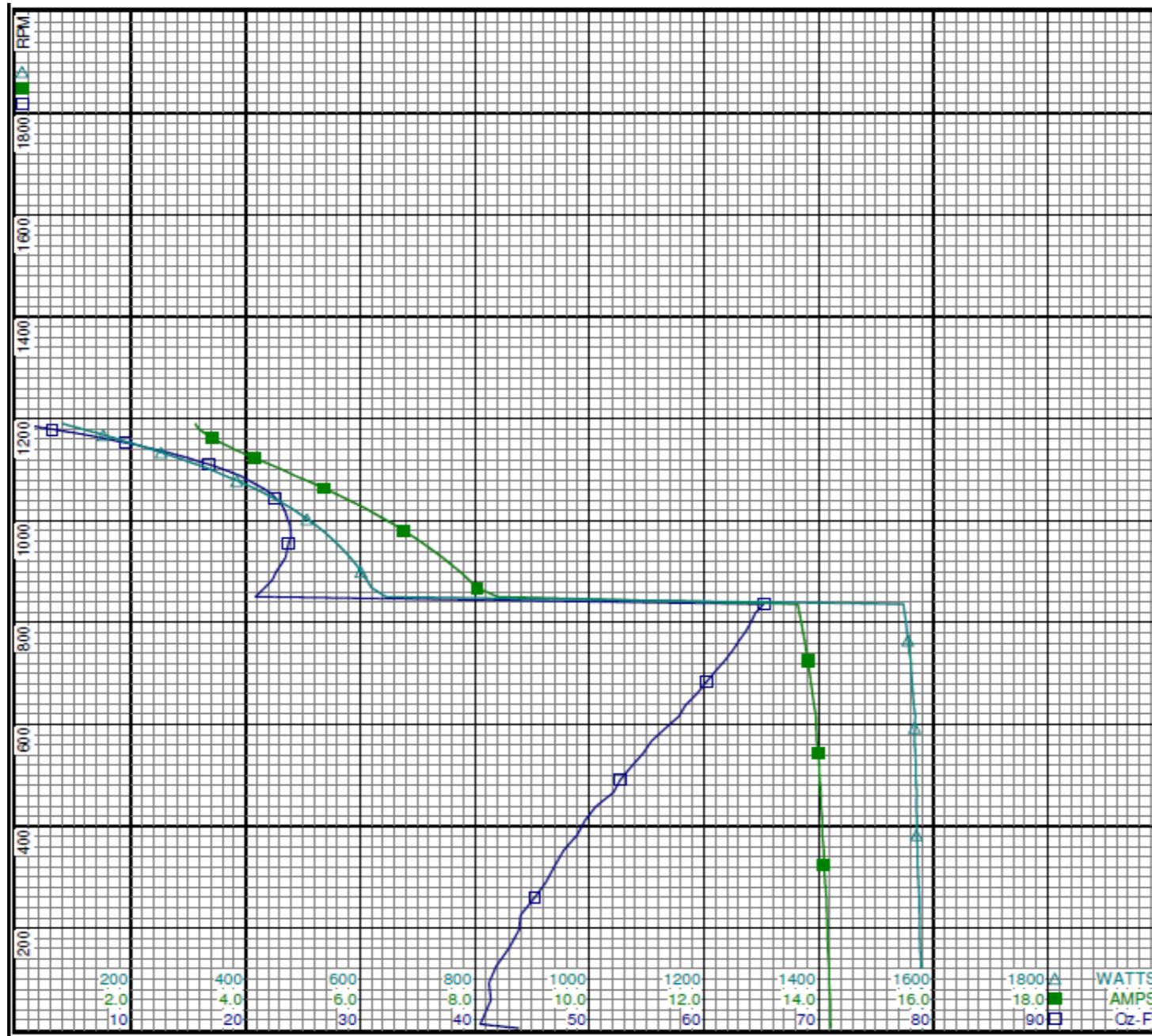
Performance Data



5GD54BG

REV.

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Curve Descriptions:
 Motor(1) Test 2 Start 115V 60 Hz 6P
 PERF
 □ SPEED vs TORQUE
 ■ SPEED vs ILine
 △ SPEED vs WATTS

Motor Ratings:
 (1) C055JDC4393R1 ID: #1
 5GD54BG

DRAWING NO.	PAGE 2 of 8	REV.
5GD54BG		-

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

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Performance Data



5GD54BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JDC4393R1 5GD54BG
 Motor ID: #1
 Poles: 6
 Volts: 115/203-230
 Frequency: 60
 HP: 1/6
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run
 Test Number: 3
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #1 Fixture #1
 Run Cap: 0
 Start Cap: 198 MFD 110 VOLT
 Environment: 24.7 Deg C 62 % RH 966 hPa
 Tested: 8/31/2016 11:16:58 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.41 Oz-Ft
 Windage Torque: -1.40 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	2.2	2.4	3.134	78.6	1190	0.00	0.000	0.0	21.8
	115.0	2.2	2.4	3.145	90.6	1186	1.18	0.017	13.7	25.1
	115.0	2.3	2.5	3.193	111.2	1180	2.98	0.042	28.1	30.3
	115.0	2.4	2.5	3.272	136.9	1172	5.20	0.072	39.5	36.4
	115.0	2.4	2.6	3.417	169.3	1162	7.81	0.108	47.6	43.1
	115.0	2.4	2.6	3.630	207.2	1149	10.63	0.145	52.3	49.6
1140 RPM	115.0	2.5	2.7	3.791	232.3	1140	12.45	0.169	54.3	53.3
0.166 HP	115.0	2.5	2.7	3.768	228.8	1141	12.22	0.166	54.1	52.8
12.232 OZ-FT	115.0	2.5	2.7	3.769	229.0	1141	12.23	0.166	54.1	52.8
	115.0	2.5	2.7	3.919	251.3	1133	13.68	0.185	54.8	55.7
14.07 OZ-FT	115.0	2.5	2.7	3.959	256.4	1131	14.07	0.189	55.1	56.3
	115.0	2.6	2.7	4.276	297.1	1117	16.49	0.219	55.0	60.4
	115.0	2.6	2.8	4.721	348.8	1095	19.61	0.256	54.7	64.3
	115.0	2.7	2.9	5.194	398.4	1073	21.90	0.280	52.4	66.7
	115.0	2.7	2.9	5.711	448.1	1045	23.88	0.297	49.5	68.2
	115.0	2.8	3.0	6.247	495.1	1015	25.29	0.305	46.0	68.9
	115.0	2.8	3.0	6.784	537.7	980	25.71	0.300	41.6	68.9
BDT OZ-FT	115.0	2.9	3.0	6.943	549.9	969	25.77	0.297	40.3	68.9
	115.0	2.9	3.1	7.269	573.2	944	25.74	0.289	37.6	68.6
	115.0	3.0	3.1	7.763	605.1	902	24.89	0.267	32.9	67.8
	115.0	3.0	3.2	8.222	631.8	853	23.76	0.241	28.5	66.8
	115.0	3.1	3.2	8.619	651.8	803	22.02	0.211	24.1	65.8
	115.0	3.2	3.3	8.983	667.5	747	19.96	0.177	19.8	64.6
	115.0	3.2	3.3	9.301	679.1	686	17.78	0.145	16.0	63.5
	115.0	3.3	3.4	9.577	687.2	620	15.34	0.113	12.3	62.4
	115.0	3.3	3.4	9.815	692.5	548	12.91	0.084	9.1	61.4
	115.0	3.4	3.5	10.007	695.2	472	10.30	0.058	6.2	60.4
	115.0	3.4	3.5	14.066	1575.3	393	53.19	0.249	11.8	97.4
	115.0	3.5	3.5	14.111	1576.6	298	50.09	0.178	8.4	97.2
	115.0	3.5	3.6	14.154	1578.2	205	47.71	0.116	5.5	97.0
	115.0	3.6	3.6	14.176	1577.7	100	45.01	0.053	2.5	96.8

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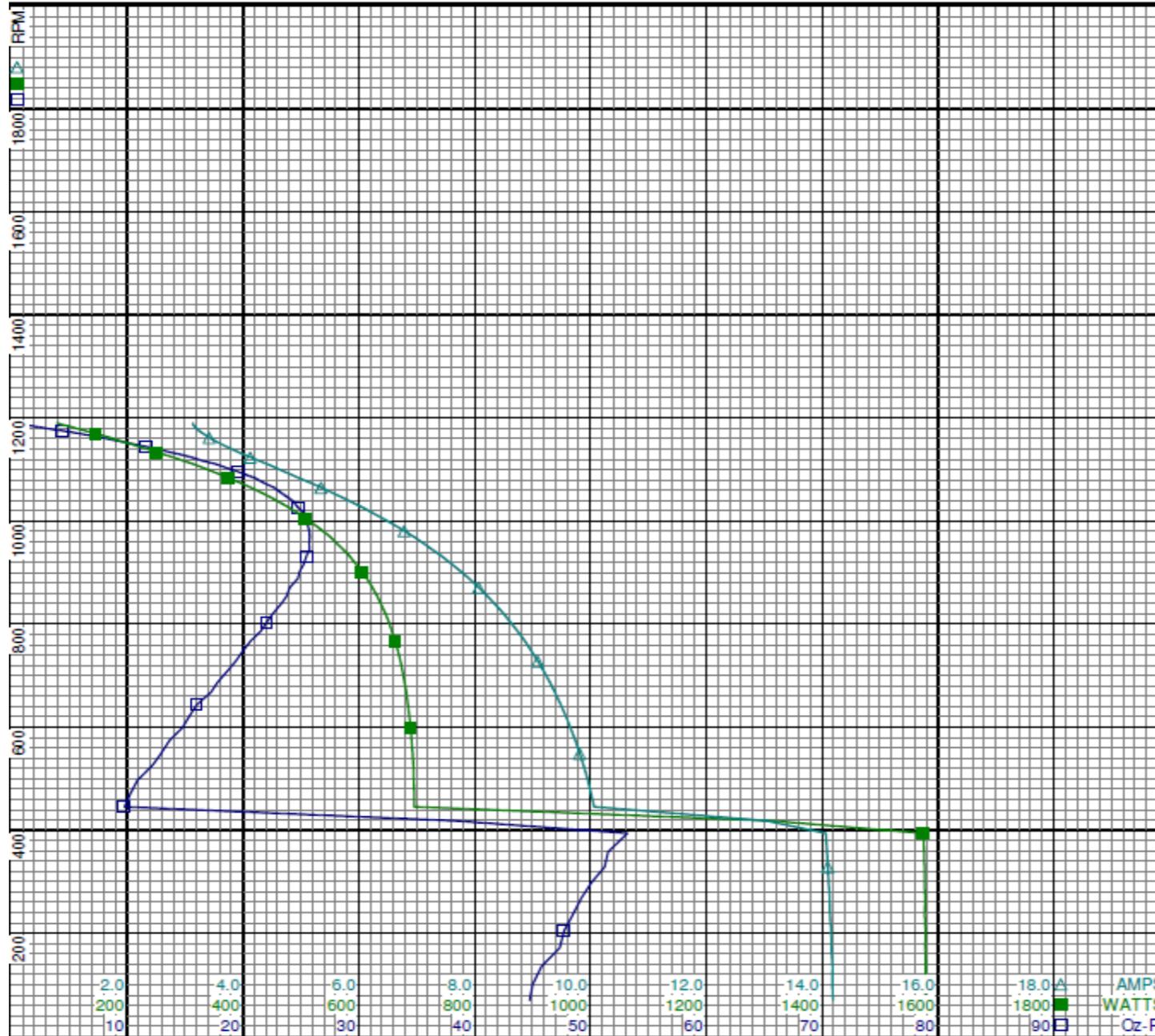
Performance Data



5GD54BG

REV.

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Curve Descriptions:
 Motor(1) Test 3 Run 115V 60 Hz 6P
 PERF
 □ SPEED vs TORQUE
 ■ SPEED vs WATTS
 △ SPEED vs ILine

Motor Ratings:
 (1) C055JDC4393R1 ID:#1
 5GD54BG

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

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Performance Data



5GD54BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JDC4393R1 5GD54BG
 Motor ID: #1
 Poles: 6
 Volts: 115/203-230
 Frequency: 60
 HP: 1/6
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 16
 Poles: 6
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #1 Fixture #1
 Run Cap: 0
 Start Cap: 198 MFD 110 VOLT
 Environment: 24.7 Deg C 62 % RH 966 hPa
 Tested: 8/31/2016 11:03:57 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.49 Oz-Ft
 Windage Torque: -1.60 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	230.0	7.3	6.3	6.983	1472.6	20	32.14	0.008	0.4	91.7
	230.0	7.3	6.3	6.983	1472.6	20	32.14	0.008	0.4	91.7
	230.0	7.3	6.3	6.970	1471.5	129	34.39	0.053	2.7	91.8
	230.0	7.4	6.3	6.948	1469.3	231	36.69	0.101	5.1	91.9
	230.0	7.4	6.3	6.918	1466.6	325	39.47	0.153	7.8	92.2
	230.0	7.4	6.3	6.883	1464.1	413	42.16	0.207	10.6	92.5
	230.0	7.4	6.3	6.853	1464.2	495	45.01	0.265	13.5	92.9
	230.0	7.4	6.3	6.819	1464.0	571	47.93	0.326	16.6	93.4
	230.0	7.5	6.3	6.770	1461.2	640	50.60	0.386	19.7	93.8
	230.0	7.5	6.2	6.713	1457.3	706	53.24	0.447	22.9	94.4
	230.0	7.5	6.2	6.653	1452.8	766	55.45	0.505	25.9	94.9
	230.0	7.5	6.2	6.580	1445.2	820	57.17	0.558	28.8	95.5
	230.0	7.4	6.1	4.116	625.7	869	21.87	0.226	27.0	66.1
	230.0	7.4	6.1	3.888	599.5	914	23.24	0.253	31.5	67.0
	230.0	7.4	6.0	3.632	567.3	956	24.43	0.278	36.6	67.9
	230.0	7.4	5.9	3.376	529.4	992	24.31	0.287	40.5	68.2
	230.0	7.4	5.9	3.113	487.4	1025	23.69	0.289	44.2	68.1
	230.0	7.3	5.8	2.845	440.8	1054	22.52	0.283	47.8	67.4
	230.0	7.3	5.7	2.582	390.1	1081	20.45	0.263	50.3	65.7
	230.0	7.2	5.7	2.335	338.9	1103	18.14	0.238	52.5	63.1
	230.0	7.2	5.6	2.118	288.6	1123	15.35	0.205	53.1	59.2
	230.0	7.2	5.5	1.949	245.3	1139	12.49	0.169	51.5	54.7
	230.0	7.1	5.5	1.801	199.5	1154	9.48	0.130	48.7	48.2
	230.0	7.1	5.4	1.703	164.1	1165	6.82	0.095	43.0	41.9
	230.0	7.0	5.3	1.633	131.6	1175	4.32	0.060	34.3	35.0
	230.0	7.0	5.2	1.599	109.5	1183	2.35	0.033	22.5	29.8
	230.0	7.0	5.2	1.574	88.7	1188	0.70	0.010	8.3	24.5
	230.0	6.9	5.1	1.570	81.6	1191	0.00	0.000	0.0	22.6

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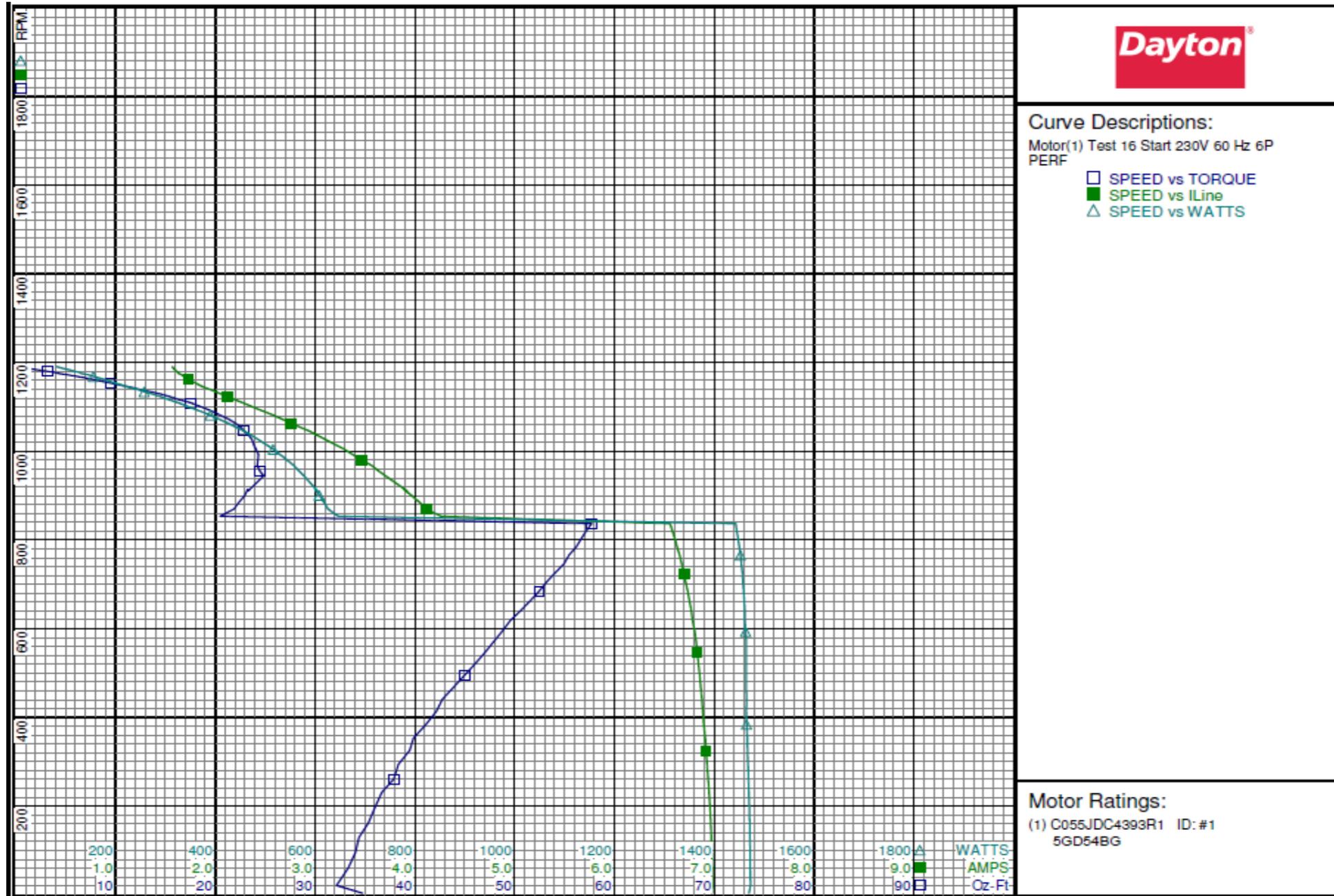
Performance Data



5GD54BG

REV.

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5GD54BG		-

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

Performance Data



5GD54BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JDC4393R1 5GD54BG
 Motor ID: #1
 Poles: 6
 Volts: 115/203-230
 Frequency: 60
 HP: 1/6
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run
 Test Number: 17
 Poles: 6
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #1 Fixture #1
 Run Cap: 0
 Start Cap: 198 MFD 110 VOLT
 Environment: 24.7 Deg C 62 % RH 966 hPa
 Tested: 8/31/2016 11:02:08 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.47 Oz-Ft
 Windage Torque: -1.59 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	230.0	5.7	3.5	1.569	79.6	1190	0.00	0.000	0.0	22.1
	230.0	5.7	3.4	1.580	92.3	1186	1.17	0.017	13.4	25.4
	230.0	5.6	3.4	1.604	113.9	1179	3.13	0.044	28.7	30.9
	230.0	5.6	3.3	1.650	140.3	1171	5.33	0.074	39.5	37.0
	230.0	5.5	3.3	1.728	173.9	1161	8.07	0.111	47.8	43.8
	230.0	5.5	3.2	1.839	212.2	1149	10.98	0.150	52.8	50.2
1140 RPM	230.0	5.4	3.2	1.928	238.6	1140	12.87	0.175	54.6	53.8
0.166 HP	230.0	5.4	3.2	1.896	229.0	1143	12.20	0.166	54.1	52.5
12.232 OZ-FT	230.0	5.4	3.2	1.897	229.5	1143	12.23	0.166	54.1	52.6
	230.0	5.4	3.2	1.999	258.0	1133	14.06	0.190	54.9	56.1
14.07 OZ-FT	230.0	5.4	3.2	1.999	258.1	1133	14.07	0.190	54.9	56.1
	230.0	5.4	3.2	2.193	307.5	1115	17.22	0.229	55.5	61.0
	230.0	5.3	3.1	2.415	356.6	1096	20.08	0.262	54.8	64.2
	230.0	5.2	3.1	2.669	408.9	1072	22.64	0.289	52.7	66.6
	230.0	5.2	3.1	2.943	459.4	1045	24.36	0.303	49.2	67.9
	230.0	5.1	3.1	3.209	504.4	1015	25.74	0.311	46.0	68.4
BDT OZ-FT	230.0	5.1	3.1	3.483	546.7	981	26.28	0.307	41.9	68.2
	230.0	5.1	3.1	3.483	546.7	981	26.28	0.307	41.9	68.2
	230.0	5.1	3.1	3.752	583.6	942	25.91	0.290	37.1	67.6
	230.0	5.0	3.2	3.989	613.1	901	25.21	0.270	32.9	66.8
	230.0	5.0	3.2	4.216	637.3	854	23.86	0.243	28.4	65.7
	230.0	5.0	3.2	4.422	656.4	802	22.06	0.211	23.9	64.5
	230.0	4.9	3.3	4.604	670.7	746	19.81	0.176	19.6	63.3
	230.0	4.9	3.3	4.762	681.0	686	17.40	0.142	15.6	62.2
	230.0	4.9	3.4	4.898	687.9	620	15.33	0.113	12.3	61.1
	230.0	4.9	3.5	5.018	692.2	548	12.77	0.083	9.0	60.0
	230.0	4.9	3.5	5.116	693.7	470	9.65	0.054	5.8	59.0
	230.0	4.9	3.6	6.898	1466.6	391	45.16	0.210	10.7	92.4
	230.0	4.9	3.7	6.935	1470.7	298	42.32	0.150	7.6	92.2
	230.0	5.0	3.8	6.962	1472.4	202	40.30	0.097	4.9	92.0
	230.0	5.0	3.9	6.973	1471.5	99	37.80	0.045	2.3	91.8

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5GD54BG -

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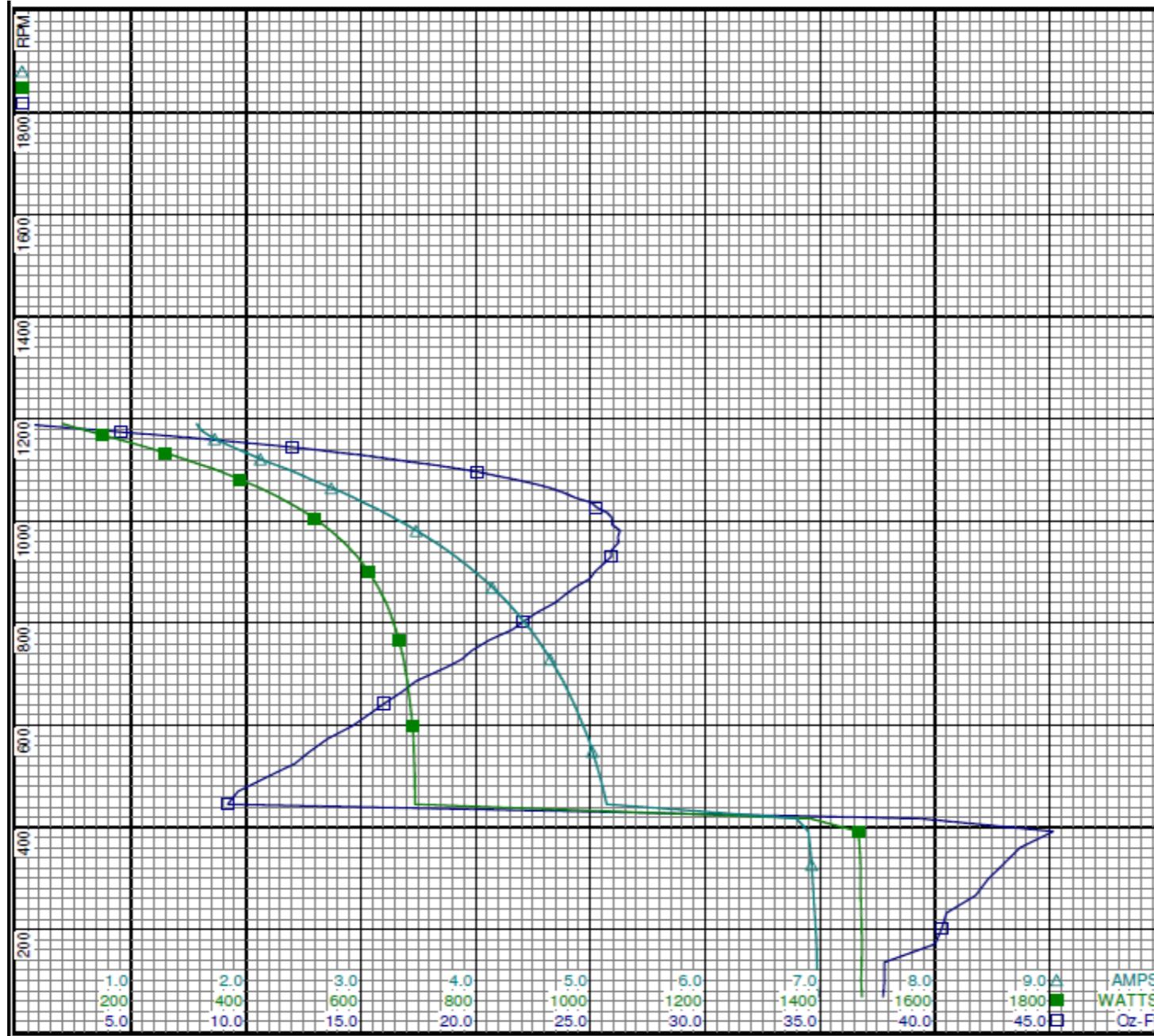
Performance Data



5GD54BG

REV.

-



Curve Descriptions:

Motor(1) Test 17 Run 230V 60 Hz 6P
PERF

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

Motor Ratings:

(1) C055JDC4393R1 ID: #1
5GD54BG

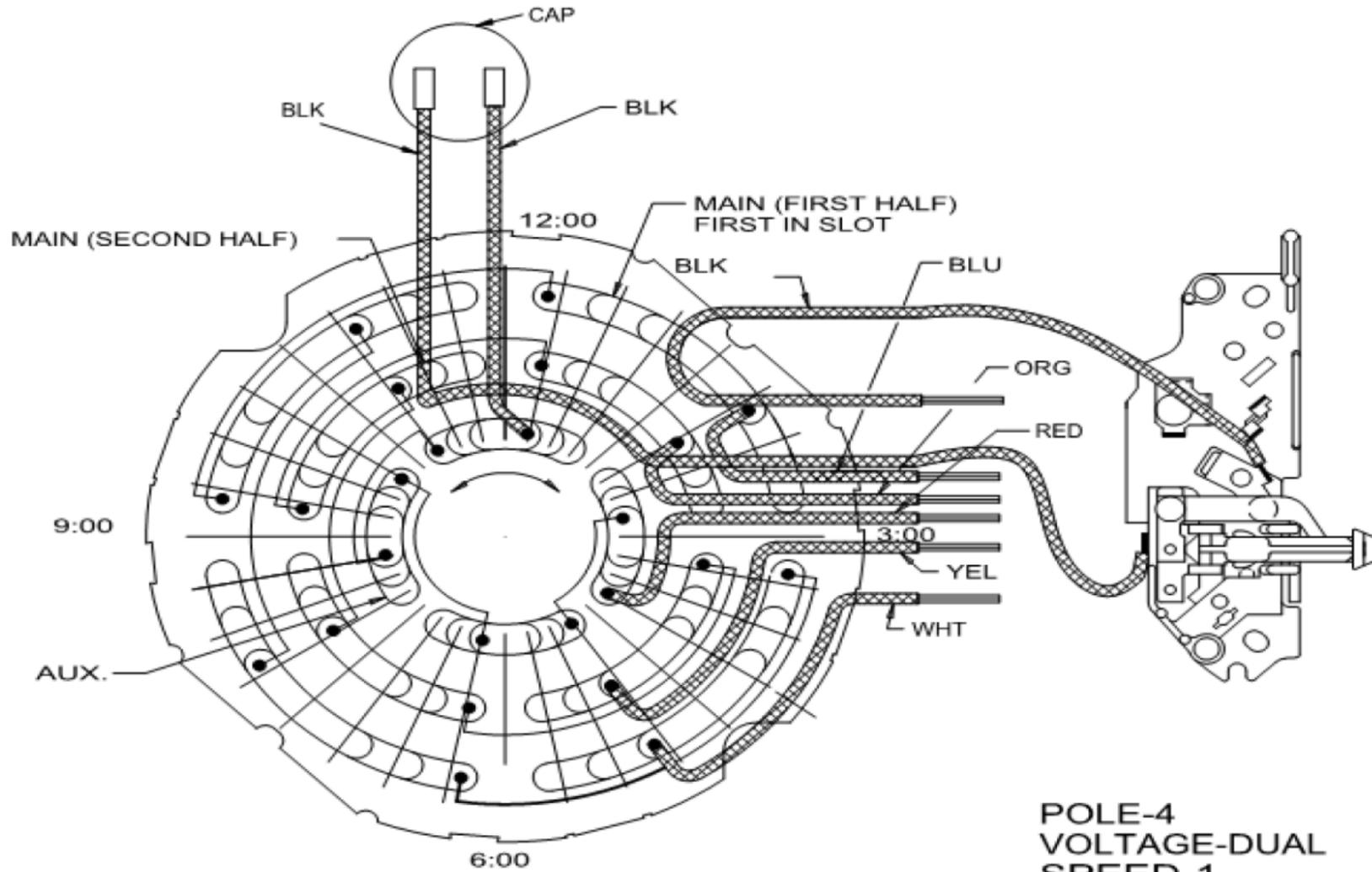
DRAWING NO.	PAGE 8 of 8	REV.
5GD54BG		-

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

Wiring Diagram

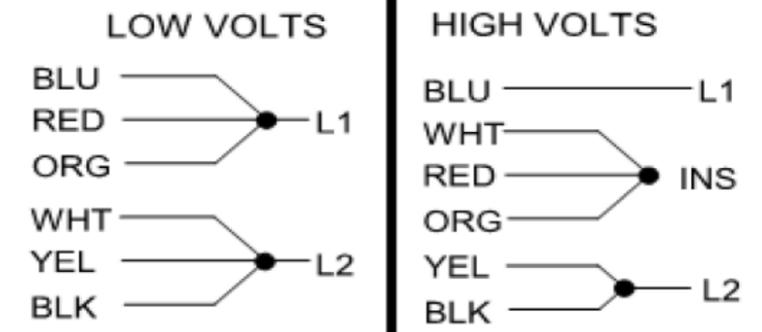
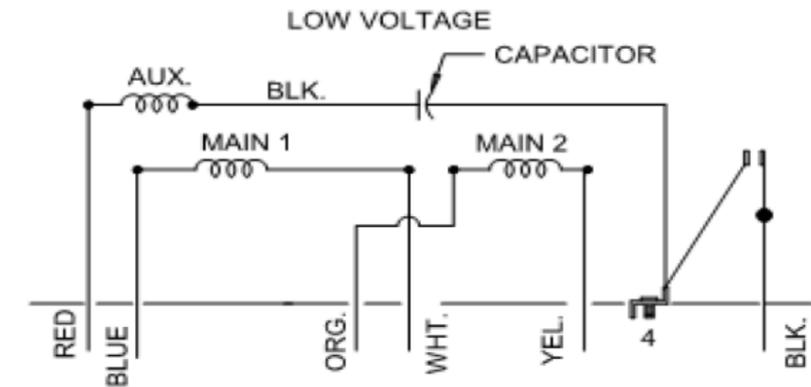


5GD54BG REV. -



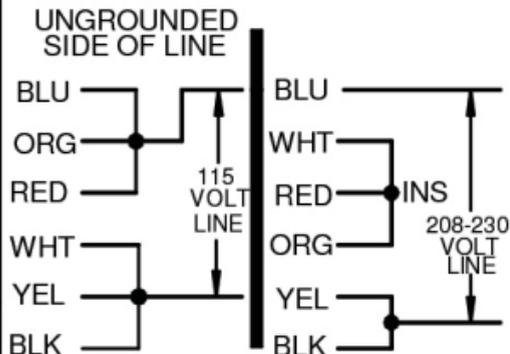
VIEWING LEAD END

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



TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

DRAWING NO. PAGE 1 of 1 REV.
5GD54BG -

Dayton[®]**INDUSTRIAL MOTOR****HP:** 1/6**VOLTS:** 115/208-230**AMPS:** 3.8/1.8-1.9**RPM:** 1140**DUTY:** CONT**SF:** 1.15**KVA CODE:** L**ENCL:** TEFC**THERMALLY PROTECTED:** NONEMFG. NO. PROT. CODE: **MTR REF:** C55JDC-4393Part No **5GD54BG****PH:** 1**HZ:** 60**FR:** 56C**INS CL:** B**AMB:** 40 °C**SFA:** 4.0/1.9-2.0AVG. F.L.
EFF.**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