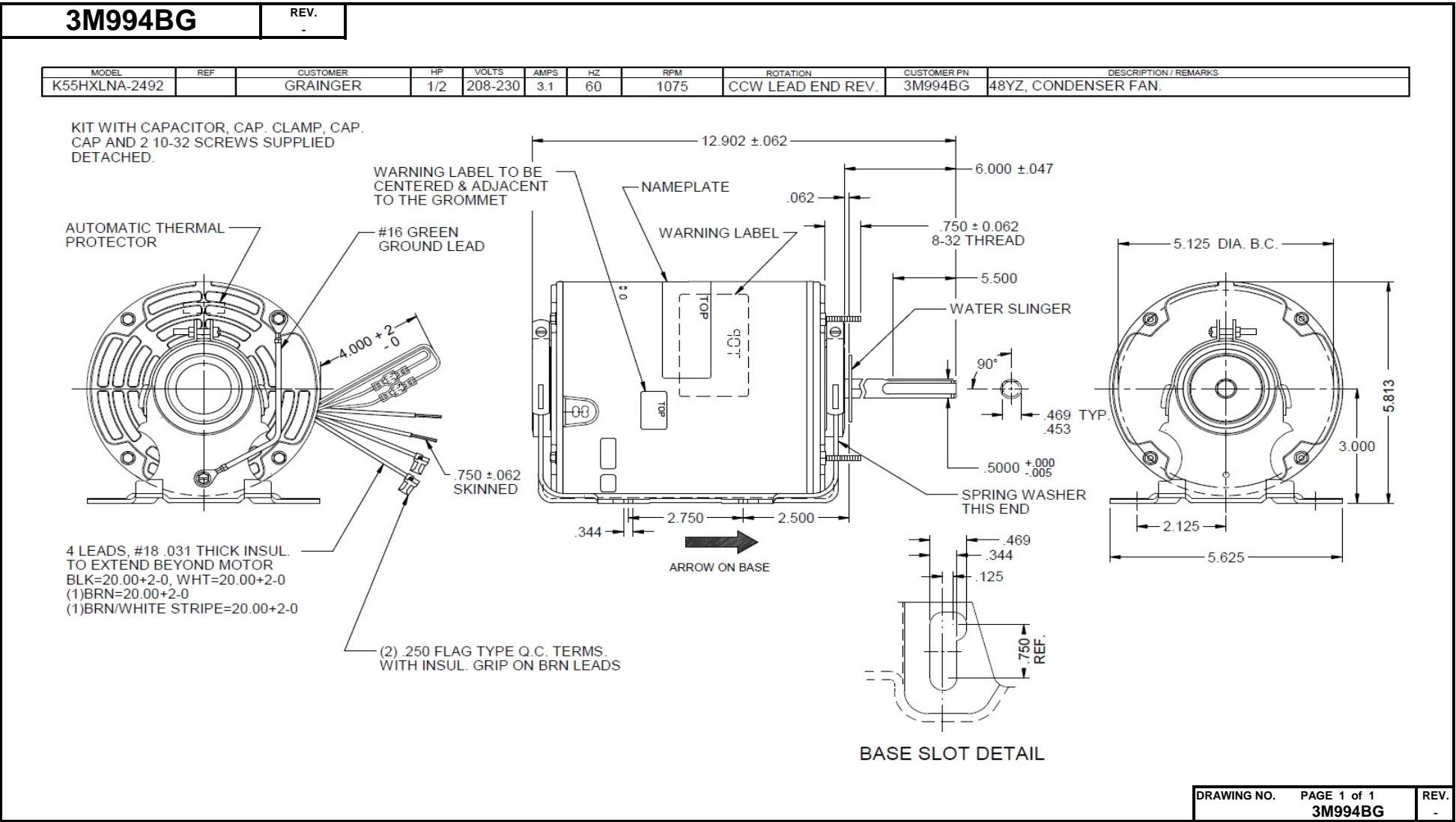


Dimensional Drawing



**3M994BG**

REV.

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**SHADED-POLE & PSC MOTOR PERFORMANCE**

HP:	1/2							
Poles:	6							
Ambient (°C):	60							
Altitude (FASL):								
No. of Speeds:	1							
<b>HIGH SPEED</b>								
Volts:	208-230	208	230					
HZ:	60	60	60					
Service Factor:	1							
Efficiency:	@ Rated Load	69.5	70.2					
Power Factor:	@ Rated Load	85.8	83.9					
Amps:	@ No Load							
	@ Rated Load	3	2.8					
	@ Locked Rotor	9.4	9.2					
RPM:	@ Rated Load	1116	1138					
Torques:	Breakdown	51.2	63.2					
	Locked Rotor	10.2	10.44					
	Pull-Up	10	10					
	Rated Load	37.6	36.9					
	Service Factor	N/A	N/A					
Watts:	Rated Load	526	531					
Temperature Rise:	@ Rated Load	N/A	N/A					
Thermal Protector:	Trip Temp (°C)	N/A	N/A					
Winding Material:	Start (Auxiliary)	Cu	Cu					
	Run (Main)	Cu	Cu					
Capacitor(s):	Run (MFD / Volts)	7.5MFD 370VAC						
	No. of Run Capacitors							

**MEDIUM-HIGH SPEED**

HP:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Locked Rotor							
Torques:	Breakdown							
Oz.Ft. / Lb.In.	Locked Rotor							
(Circle One)	Pull-Up							
	Rated Load							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							

DRAWING NO. PAGE 1 of 1  
3M994BGREV.  
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# Performance Data



**3M994BG**

REV.  
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## Dayton Manufacturing Company

### Motor Description

Model: K055LNA2492, 3M994  
Motor ID: #1  
Poles: 6  
Volts: 230  
Frequency: 60  
HP: 1/2  
Speed: 1100  
Phase: 1  
Protector: 7AM036

### Test Conditions

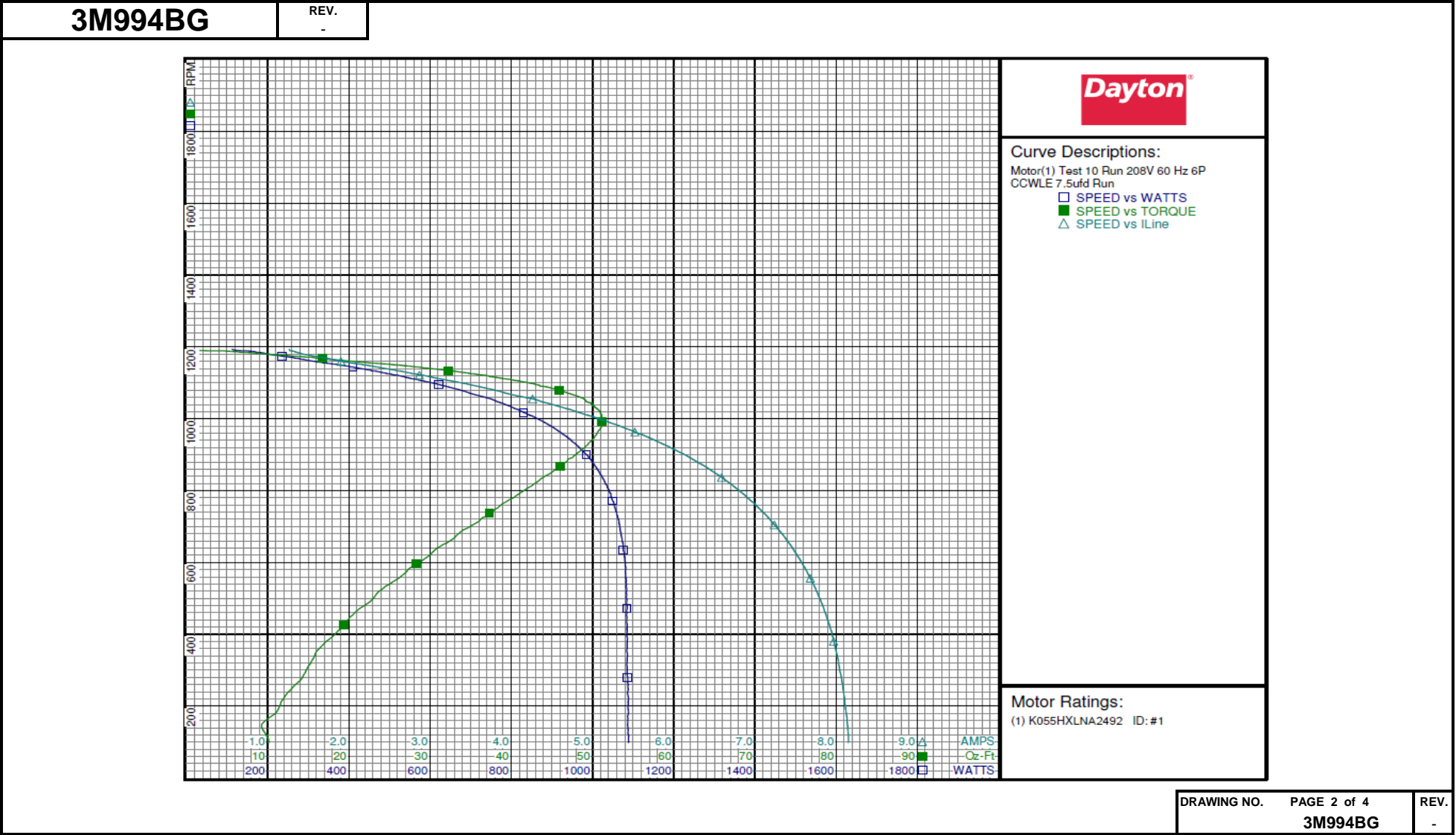
Test Type: Run  
Test Number: 10  
Poles: 6  
Volts: 208  
Hz: 60  
Rotation: CCWLE  
Special Cond:  
Speed Conn:  
Test Board: Amtps Performance Fixture #4  
Run Cap: 7.5  
Start Cap: 0µfd  
Environment: 20.5 Deg C 30 % RH 996 hPa  
Tested: 2/15/2012 9:30:00 AM  
Tested By: Sharp, Gerald  
Gear Ratio: 1:1  
Bearing Friction: -0.55 Oz-Ft  
Windage Torque: -1.85 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
	208.0	284.6	380.2	1.265	1.869	1.122	112.6	1194	0.00	0.000	0.0	42.8	7.8
	208.0	280.3	373.0	1.301	1.774	1.096	151.9	1188	4.69	0.066	32.6	56.1	7.8
	208.0	275.9	365.3	1.391	1.747	1.069	188.3	1183	8.28	0.117	46.2	65.1	7.8
	208.0	271.3	355.9	1.543	1.770	1.036	229.8	1175	12.63	0.177	57.3	71.6	7.7
	208.0	267.7	347.5	1.758	1.861	1.008	280.0	1166	17.26	0.240	63.9	76.6	7.7
	208.0	262.8	339.4	1.985	1.988	0.983	331.0	1157	21.96	0.302	68.1	80.2	7.7
	208.0	255.4	329.1	2.288	2.202	0.953	396.1	1146	27.45	0.375	70.5	83.2	7.7
	208.0	246.6	318.5	2.596	2.457	0.923	457.8	1133	32.29	0.436	71.0	84.8	7.7
	208.0	236.2	306.4	2.953	2.786	0.890	526.0	1119	37.20	0.496	70.3	85.6	7.7
0.5 HP	208.0	234.7	304.7	3.007	2.838	0.885	536.1	1116	37.62	0.500	69.6	85.7	7.7
39 OZ-FT	208.0	231.8	301.6	3.101	2.930	0.877	553.7	1112	39.00	0.516	69.5	85.8	7.7
	208.0	224.6	293.6	3.355	3.181	0.856	599.2	1101	41.88	0.549	68.3	85.9	7.7
1100 RPM	208.0	224.2	293.1	3.370	3.196	0.854	601.9	1100	42.02	0.550	68.2	85.9	7.7
	208.0	212.4	281.1	3.758	3.597	0.824	668.5	1082	45.60	0.587	65.5	85.5	7.8
1075 RPM	208.0	209.0	277.8	3.872	3.717	0.815	688.0	1075	46.47	0.595	64.5	85.4	7.8
	208.0	195.9	265.5	4.295	4.169	0.784	753.2	1053	49.03	0.615	60.9	84.3	7.8
	208.0	184.7	256.1	4.631	4.540	0.761	802.6	1031	50.36	0.618	57.5	83.3	7.9
BDT OZ-FT	208.0	169.8	244.5	5.084	5.041	0.731	865.6	999	51.22	0.609	52.5	81.9	7.9
	208.0	169.8	244.5	5.084	5.041	0.731	865.6	999	51.22	0.609	52.5	81.9	7.9
	208.0	154.6	234.6	5.524	5.531	0.705	920.1	963	50.64	0.581	47.1	80.1	8.0
	208.0	140.3	227.1	5.925	5.981	0.686	964.1	924	49.17	0.541	41.8	78.2	8.0
	208.0	127.5	221.9	6.270	6.373	0.672	998.3	882	46.92	0.493	36.8	76.5	8.0
	208.0	116.5	218.7	6.565	6.709	0.662	1022.6	841	44.19	0.442	32.3	74.9	8.0
	208.0	107.1	216.9	6.808	6.987	0.657	1041.0	800	41.54	0.395	28.3	73.5	8.0
	208.0	98.8	216.3	7.020	7.232	0.654	1054.2	757	38.59	0.348	24.6	72.2	8.0
	208.0	91.7	216.2	7.204	7.445	0.654	1065.4	714	35.98	0.306	21.4	71.1	8.0
	208.0	85.1	216.9	7.366	7.633	0.655	1071.5	670	33.04	0.263	18.3	69.9	8.0
	208.0	79.0	217.9	7.511	7.806	0.657	1078.6	623	30.09	0.223	15.4	69.0	8.0
	208.0	73.3	219.0	7.641	7.959	0.660	1080.9	573	27.10	0.185	12.8	68.0	8.0
	208.0	68.0	220.3	7.755	8.096	0.662	1083.9	521	23.80	0.148	10.2	67.2	8.0
	208.0	62.4	221.9	7.855	8.215	0.663	1083.9	465	21.02	0.116	8.0	66.3	7.9
	208.0	58.2	223.9	7.943	8.326	0.667	1085.1	406	18.55	0.090	6.2	65.7	7.9
	208.0	54.7	226.7	8.007	8.409	0.674	1086.0	345	15.84	0.065	4.5	65.2	7.9
	208.0	52.7	229.4	8.063	8.480	0.681	1086.4	279	14.26	0.047	3.3	64.8	7.9
	208.0	51.7	232.3	8.105	8.538	0.690	1087.3	212	11.66	0.029	2.0	64.5	7.9
	208.0	50.7	235.5	8.142	8.589	0.699	1086.8	141	9.24	0.016	1.1	64.2	7.9

DRAWING NO. PAGE 1 of 4  
**3M994BG** REV.  
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



# Performance Data



**3M994BG**

REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: K055LNA2492, 3M994  
Motor ID: #1  
Poles: 6  
Volts: 230  
Frequency: 60  
HP: 1/2  
Speed: 1100  
Phase: 1  
Protector: 7AM036

### Test Conditions

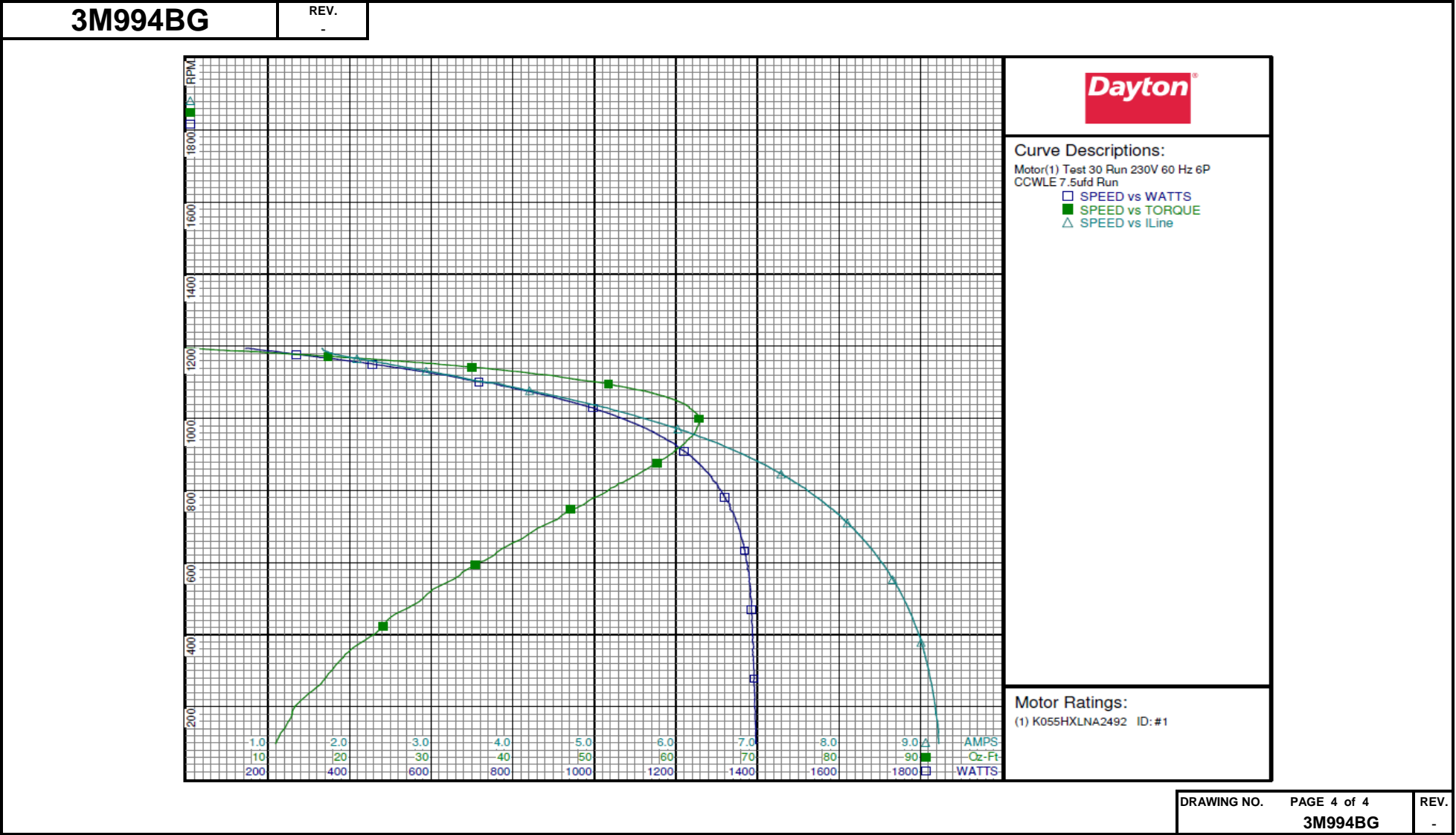
Test Type: Run  
Test Number: 30  
Poles: 6  
Volts: 230  
Hz: 60  
Rotation: CCWLE  
Special Cond:  
Speed Conn:  
Test Board: Amtps Performance Fixture #4  
Run Cap: 7.5  
Start Cap: 0µfd  
Environment: 20.5 Deg C 30 % RH 996 hPa  
Tested: 2/15/2012 9:53:11 AM  
Tested By: Sharp, Gerald  
Gear Ratio: 1:1  
Bearing Friction: -0.64 Oz-Ft  
Windage Torque: -1.63 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
	230.0	309.7	413.9	1.661	2.330	1.207	144.1	1194	0.00	0.000	0.0	37.7	7.7
	230.0	307.8	409.8	1.674	2.256	1.194	178.4	1190	3.56	0.050	21.1	46.3	7.7
	230.0	304.6	404.0	1.721	2.192	1.176	219.2	1185	8.04	0.113	38.6	55.4	7.7
	230.0	300.8	397.1	1.806	2.162	1.153	263.9	1178	12.92	0.181	51.2	63.5	7.7
	230.0	296.9	389.6	1.955	2.190	1.128	313.9	1171	17.92	0.250	59.4	69.8	7.7
	230.0	292.4	381.6	2.163	2.274	1.104	373.6	1163	23.47	0.325	64.9	75.1	7.7
	230.0	285.7	372.5	2.412	2.416	1.079	439.7	1153	29.40	0.403	68.4	79.2	7.7
	230.0	277.9	362.7	2.680	2.606	1.052	507.4	1142	35.00	0.476	69.9	82.3	7.7
	230.0	274.7	359.1	2.781	2.685	1.042	531.0	1138	36.90	0.500	70.2	83.0	7.7
0.5 HP	230.0	271.2	354.7	2.899	2.783	1.030	559.3	1133	39.00	0.526	70.2	83.9	7.7
39 OZ-FT	230.0	267.4	350.7	3.016	2.885	1.019	584.7	1129	40.89	0.550	70.1	84.3	7.7
	230.0	255.8	337.6	3.405	3.241	0.983	670.9	1111	46.76	0.619	68.8	85.7	7.7
1100 RPM	230.0	247.3	328.4	3.687	3.512	0.958	727.9	1100	50.50	0.661	67.8	85.8	7.7
	230.0	243.0	324.4	3.832	3.665	0.947	754.0	1097	51.59	0.674	66.6	85.6	7.7
1075 RPM	230.0	230.3	311.3	4.252	4.088	0.913	838.4	1075	56.26	0.720	64.1	85.7	7.8
	230.0	229.7	310.7	4.274	4.111	0.911	842.7	1074	56.45	0.722	63.9	85.7	7.8
	230.0	210.8	293.6	4.888	4.759	0.868	951.3	1043	60.70	0.754	59.1	84.6	7.8
	230.0	192.4	278.5	5.483	5.406	0.828	1048.5	1008	62.71	0.753	53.5	83.1	7.9
BDT OZ-FT	230.0	184.2	272.3	5.726	5.675	0.811	1085.3	992	63.16	0.746	51.3	82.4	7.9
	230.0	174.9	266.4	6.024	6.003	0.797	1128.6	971	62.54	0.723	47.8	81.4	7.9
	230.0	158.8	256.8	6.506	6.539	0.773	1192.9	931	61.14	0.678	42.4	79.7	8.0
	230.0	144.8	250.3	6.918	7.002	0.758	1241.7	889	58.65	0.621	37.3	78.0	8.0
	230.0	132.9	246.1	7.257	7.384	0.745	1277.4	850	55.70	0.563	32.9	76.5	8.0
	230.0	122.3	243.6	7.549	7.717	0.739	1304.5	810	52.44	0.505	28.9	75.1	8.0
	230.0	113.1	242.2	7.809	8.013	0.735	1328.2	767	49.06	0.448	25.2	74.0	8.0
	230.0	104.5	241.7	8.054	8.293	0.734	1346.8	719	45.46	0.389	21.6	72.7	8.1
	230.0	96.4	242.0	8.267	8.540	0.735	1359.1	672	41.53	0.332	18.2	71.5	8.1
	230.0	89.6	242.9	8.453	8.757	0.740	1370.7	621	37.76	0.279	15.2	70.5	8.1
	230.0	83.5	243.9	8.608	8.938	0.743	1379.2	573	33.80	0.231	12.5	69.7	8.1
	230.0	77.6	245.2	8.748	9.103	0.745	1383.5	518	29.87	0.184	9.9	68.8	8.1
	230.0	72.5	247.0	8.868	9.248	0.751	1385.4	463	26.09	0.144	7.7	67.9	8.1
	230.0	66.7	248.7	8.970	9.367	0.749	1387.6	403	23.18	0.111	6.0	67.3	8.0
	230.0	62.7	251.4	9.052	9.475	0.755	1388.2	345	19.43	0.080	4.3	66.7	8.0
	230.0	61.2	254.3	9.119	9.556	0.766	1392.3	278	17.01	0.056	3.0	66.4	8.0
	230.0	58.6	257.2	9.173	9.627	0.772	1393.0	210	13.73	0.034	1.8	66.0	8.0
	230.0	56.5	260.3	9.213	9.682	0.776	1395.4	143	12.14	0.021	1.1	65.9	7.9

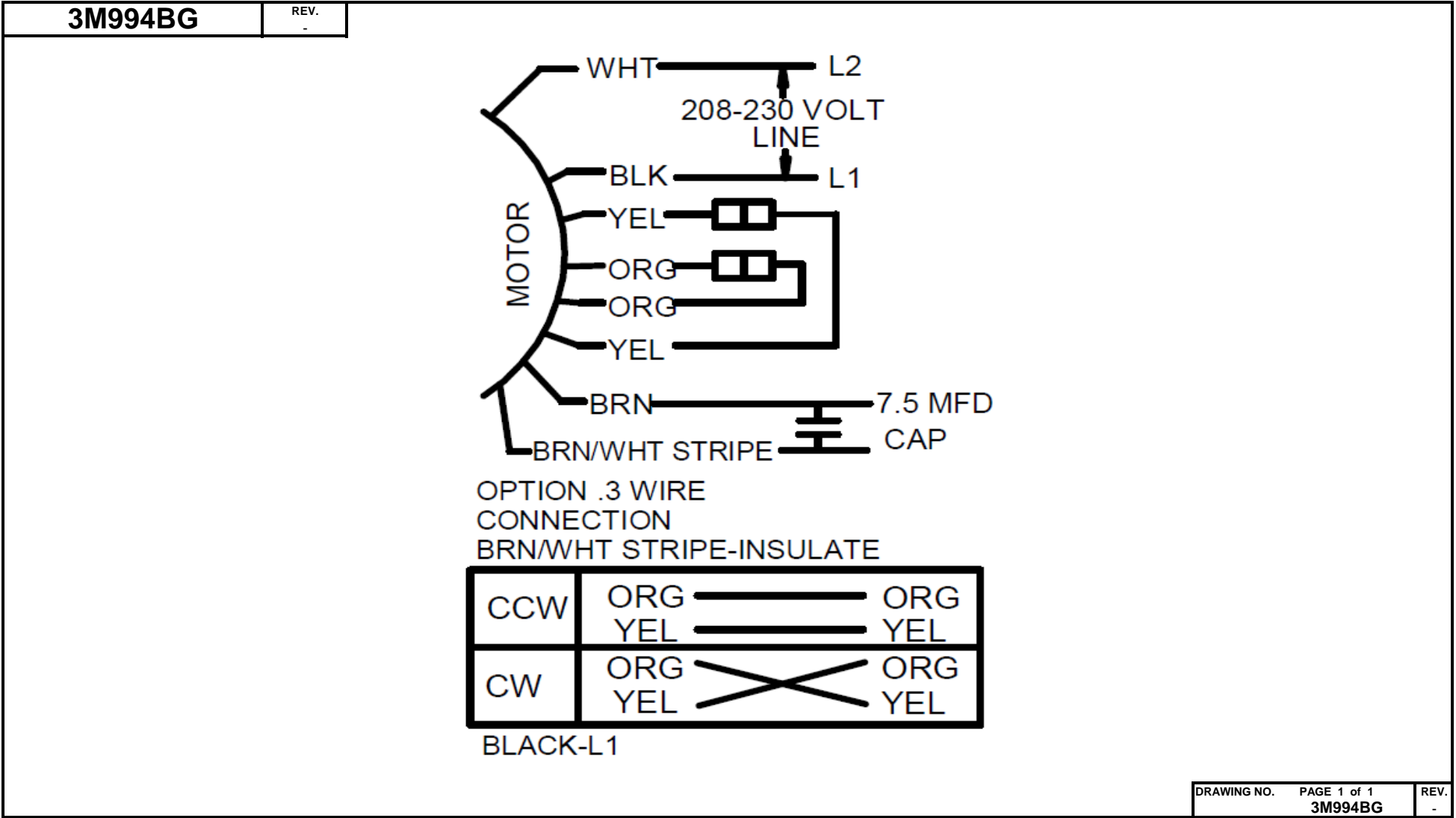
DRAWING NO. PAGE 3 of 4 REV.  
3M994BG -

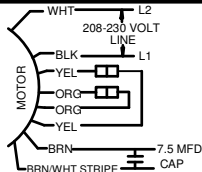
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data







**Dayton**®**CONDENSER FAN MOTOR****HP:** 1/2  
**VOLTS:** 208-230**[BAR CODE]****Part No** 3M994BG**AMPS:** 3.1**PH:** 1**RPM:** 1075**HZ:** 60**DUTY:** CONT**FR:** 48YZ**SF:** 1.0**INS CL:** B**KVA CODE:****AMB:** 60 °C**ENCL:** O.A.O**SFA:** 3.1**THERMALLY PROTECTED:** AUTO**MFG. NO.** **PROT. CODE:**  7A010 **AVG. F.L.  
EFF.****MTR REF:** K55HXLNA-2492**Disconnect Power Before Making Any  
Electrical Connections or Changes****OPTION .3 WIRE  
CONNECTION  
BRN/WHT STRIPE-INSULATE**

CCW	ORG	ORG
	YEL	YEL
CW	ORG	ORG
	YEL	YEL

**BLACK-L1****EW**®  
E37403**SP**®  
258501**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**