

3M469BG

REV.

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SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/3							
Poles:	6							
Ambient (°C):	40							
Altitude (FASL):								
No. of Speeds:	2							
HIGH SPEED								
Volts:	115	115						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	60.40						
Power Factor:	@ Rated Load	72.20						
Amps:	@ No Load	3.55						
	@ Rated Load	4.95						
	@ Locked Rotor	14.17						
RPM:	@ Rated Load	1124.00						
Torques:	Breakdown	46.25						
	Locked Rotor	9.13						
	Pull-Up	9.08						
	Rated Load	24.89						
	Service Factor	24.89						
Watts:	Rated Load	411.10						
Temperature Rise:	@ Rated Load	N/A						
Thermal Protector:	Trip Temp (°C)	N/A						
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor(s):	Run (MFD / Volts)	7.5 MFD / 440V						
	No. of Run Capacitors							
MEDIUM-HIGH SPEED								
HP:								
Volts:		115						
HZ:		60						
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Locked Rotor							
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							

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REV.
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SHADED-POLE & PSC MOTOR PERFORMANCE

MEDIUM-LOW SPEED

HP:								
Volts:		115						
HZ:		60						
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)							
	Run (Main)							

LOW SPEED

HP:	1/3							
Volts:	115	115						
HZ:	60	60						
Efficiency:	@ Rated Load	58.70						
Power Factor:	@ Rated Load	80.50						
Amps:	@ No Load	1.55						
	@ Rated Load	3.48						
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	25.41						
	Locked Rotor	5.37						
	Pull-Up	5.32						
	Rated Load	19.79						
Watts:	Rated Load	321.70						
Temperature Rise:	@ Rated Load	N/A						

Notes:

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Performance Data



3M469BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: 3M469BG
 Motor ID: 1
 Poles: 6
 Volts: 115
 Frequency: 60
 HP: 1/3
 Speed: 1075/2spd
 Phase: 1
 Protector: 7AM036

Test Conditions

Test Type: Start
 Test Number: 6
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: Low Spd
 TestBoard: Amtps Performance Fixture #4
 Run Cap: 0
 Start Cap: 0µfd
 Environment: 19.9 Deg C 53 % RH 971 hPa
 Tested: 12/23/2015 10:31:31 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.53 Oz-Ft
 Windage Torque: -2.02 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	7.948	610.8	0	5.37	0.000	0.0	66.8
PUT OZ-FT	115.0	7.946	610.3	2	5.32	0.000	0.0	66.8
	115.0	7.940	610.0	8	5.38	0.001	0.1	66.8
	115.0	7.910	607.6	93	6.73	0.007	0.9	66.8
	115.0	7.842	603.9	196	8.26	0.019	2.4	67.0
	115.0	7.743	601.3	302	9.97	0.036	4.5	67.5
	115.0	7.623	597.4	392	11.88	0.055	6.9	68.1
	115.0	7.478	594.0	475	13.87	0.078	9.9	69.1
	115.0	7.293	588.0	549	16.12	0.105	13.4	70.1
	115.0	7.085	580.7	615	18.17	0.133	17.1	71.3
	115.0	6.855	570.3	676	19.99	0.161	21.0	72.3
	115.0	6.609	558.0	731	21.46	0.187	25.0	73.4
	115.0	6.352	544.3	779	22.74	0.211	28.9	74.5
	115.0	6.080	528.0	824	23.66	0.232	32.8	75.5
	115.0	5.785	509.9	865	24.38	0.251	36.7	76.6
	115.0	5.488	488.9	902	24.74	0.266	40.5	77.5
	115.0	5.178	466.7	937	24.81	0.277	44.2	78.4
	115.0	4.864	442.7	968	24.46	0.282	47.5	79.1
	115.0	4.573	419.1	996	23.90	0.283	50.4	79.7
	115.0	4.259	392.2	1022	22.96	0.279	53.1	80.1
	115.0	3.949	364.5	1045	21.68	0.270	55.2	80.3
	115.0	3.647	336.2	1066	20.25	0.257	57.0	80.2
1075 RPM	115.0	3.505	322.8	1075	19.45	0.249	57.5	80.1
	115.0	3.358	308.1	1084	18.60	0.240	58.1	79.8
	115.0	3.065	278.3	1104	16.57	0.218	58.4	79.0
	115.0	2.797	249.8	1119	14.50	0.193	57.7	77.7
	115.0	2.538	221.2	1134	12.25	0.165	55.8	75.8
	115.0	2.294	191.7	1148	9.85	0.135	52.4	72.7
	115.0	2.070	163.7	1161	7.31	0.101	46.0	68.8
	115.0	1.865	134.5	1175	4.49	0.063	34.8	62.7
	115.0	1.698	110.2	1187	1.91	0.027	18.3	56.4
	115.0	1.591	93.0	1195	0.00	0.000	0.0	50.8

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

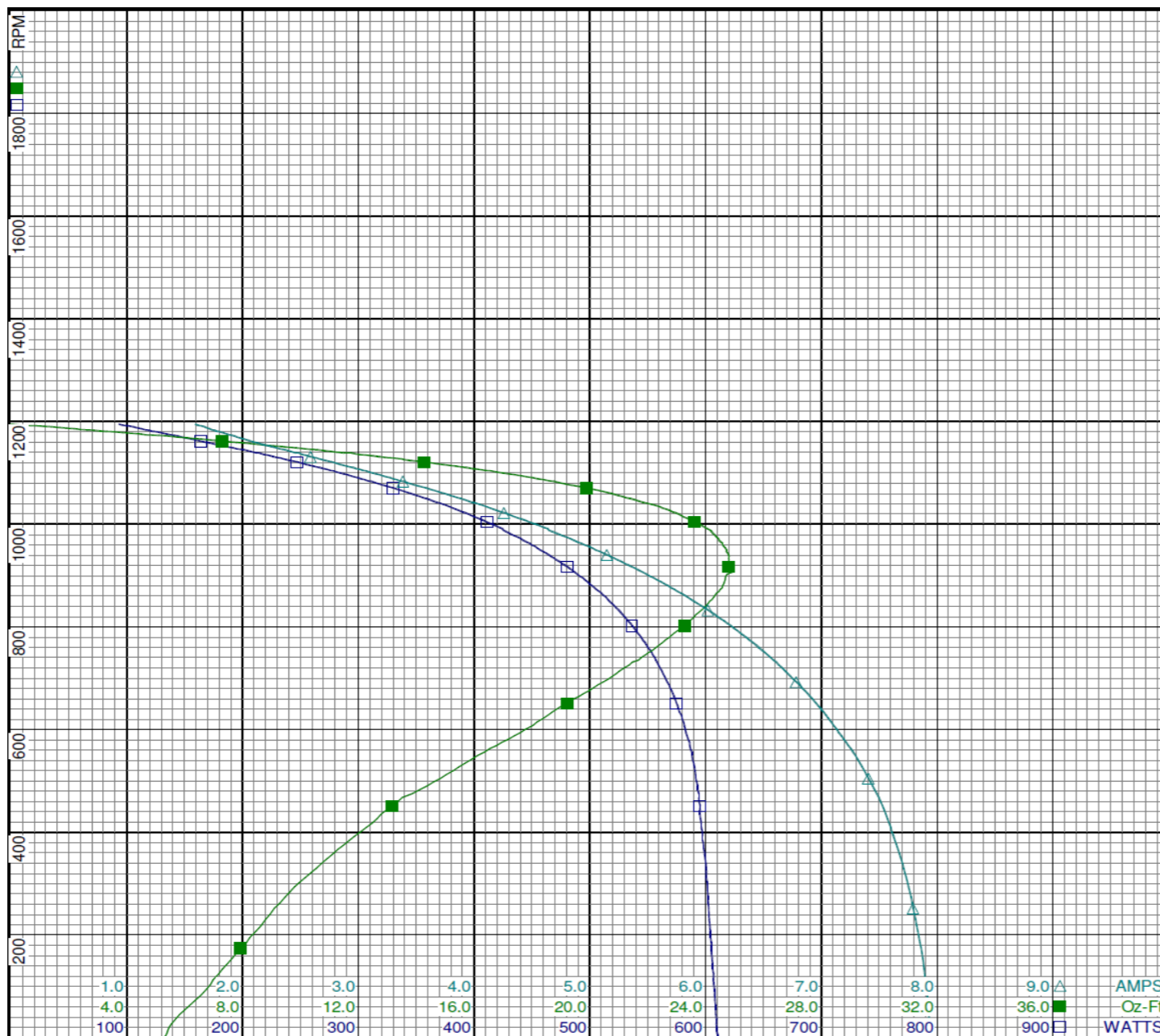
Performance Data



3M469BG

REV.

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Curve Descriptions:

Motor(1) Test 6 Start 115V 60 Hz 6P
Low Spd

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

Motor Ratings:

(1) 3M469BG

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

Performance Data



3M469BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: 3M469BG
 Motor ID: 1
 Poles: 6
 Volts: 115
 Frequency: 60
 HP: 1/3
 Speed: 1075/2spd
 Phase: 1
 Protector: 7AM036

Test Conditions

Test Type: Run
 Test Number: 4
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: Low Spd
 Speed Conn:
 TestBoard: Amtps Performance Fixture #4
 Run Cap: 7.5
 Start Cap: 0µfd
 Environment: 19.9 Deg C 53 % RH 971 hPa
 Tested: 12/23/2015 10:29:26 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.46 Oz-Ft
 Windage Torque: -1.96 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	1.547	88.5	1190	0.00	0.000	0.0	49.8
	115.0	1.664	111.4	1182	2.35	0.033	22.2	58.2
	115.0	1.843	138.2	1171	5.09	0.071	38.3	65.2
	115.0	2.016	160.2	1161	7.22	0.100	46.5	69.1
	115.0	2.236	188.3	1147	9.88	0.135	53.5	73.2
	115.0	2.496	218.2	1132	12.37	0.167	57.0	76.0
	115.0	2.760	248.0	1116	14.80	0.197	59.1	78.1
	115.0	3.086	282.7	1099	17.26	0.226	59.6	79.7
	115.0	3.413	315.5	1079	19.45	0.250	59.1	80.4
1075 RPM	115.0	3.476	321.7	1075	19.79	0.253	58.7	80.5
	115.0	3.748	347.8	1057	21.32	0.268	57.5	80.7
	115.0	4.094	379.4	1033	22.86	0.281	55.3	80.6
	115.0	4.444	410.0	1006	24.08	0.288	52.5	80.2
	115.0	4.759	435.9	977	24.88	0.289	49.5	79.6
	115.0	5.088	461.6	946	25.32	0.285	46.1	78.9
BDT OZ-FT	115.0	5.287	476.0	926	25.41	0.280	43.9	78.3
	115.0	5.403	484.8	913	25.35	0.275	42.4	78.0
	115.0	5.697	505.4	878	25.09	0.262	38.7	77.1
	115.0	5.975	523.0	841	24.57	0.246	35.1	76.1
	115.0	6.235	539.2	801	23.76	0.227	31.4	75.2
	115.0	6.471	553.1	760	22.81	0.206	27.9	74.3
	115.0	6.690	564.0	717	21.50	0.183	24.3	73.3
	115.0	6.888	573.6	671	20.36	0.163	21.2	72.4
	115.0	7.068	581.6	624	18.91	0.141	18.0	71.6
	115.0	7.230	587.6	574	17.40	0.119	15.1	70.7
	115.0	7.378	592.9	522	15.84	0.098	12.4	69.9
	115.0	7.506	596.6	467	14.13	0.079	9.8	69.1
	115.0	7.608	598.5	409	12.61	0.061	7.7	68.4
	115.0	7.694	600.8	350	11.33	0.047	5.9	67.9
	115.0	7.768	602.9	288	10.09	0.035	4.3	67.5
	115.0	7.822	604.3	222	8.97	0.024	2.9	67.2
	115.0	7.875	606.5	153	7.72	0.014	1.7	67.0

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

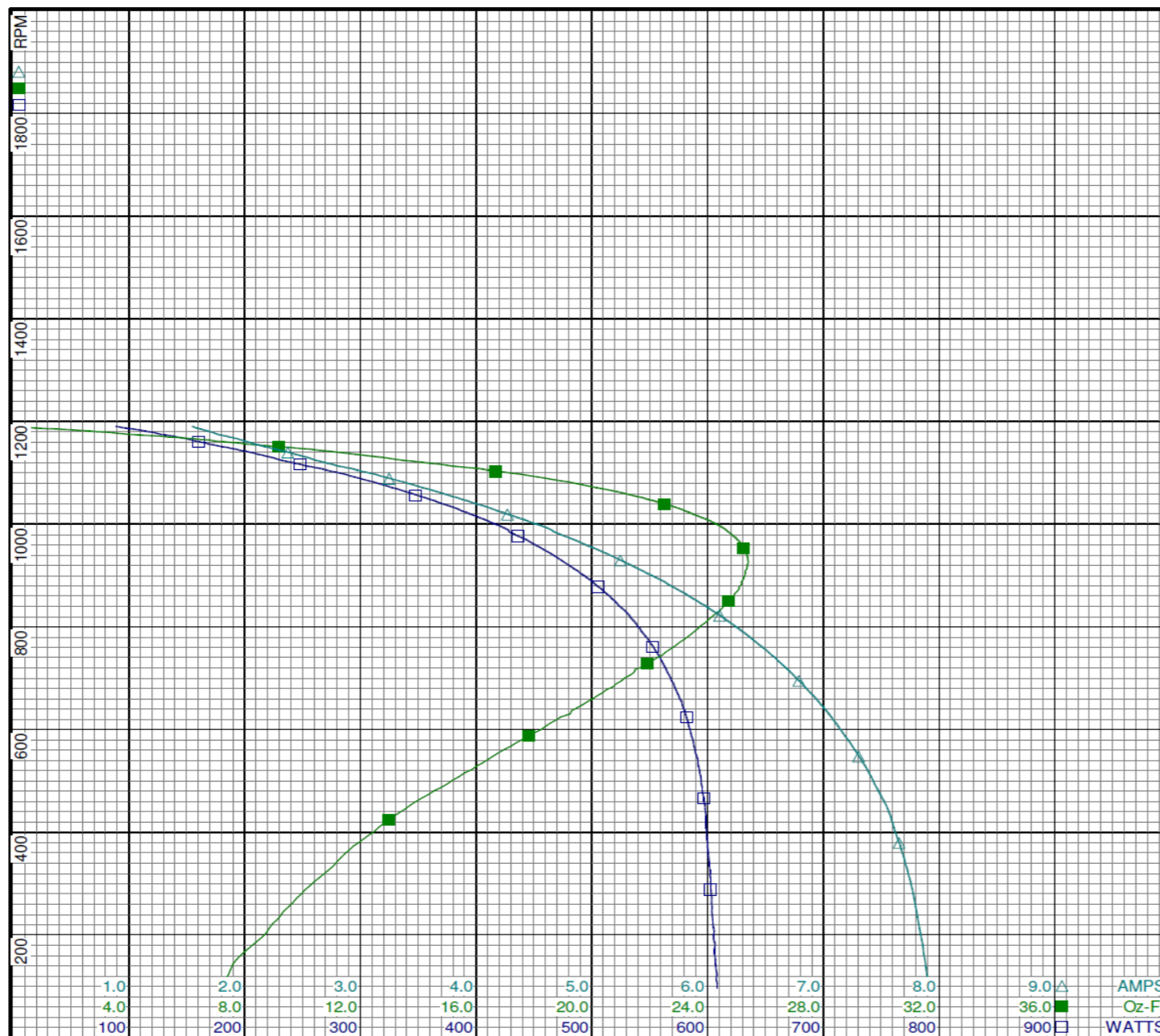
Performance Data



3M469BG

REV.

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Curve Descriptions:

Motor(1) Test 4 Run 115V 60 Hz 6P
Low Spd 7.5ufd Run

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

Motor Ratings:

(1) 3M469BG

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

Performance Data



3M469BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: 3M469BG
 Motor ID: 1
 Poles: 6
 Volts: 115
 Frequency: 60
 HP: 1/3
 Speed: 1075/2spd
 Phase: 1
 Protector: 7AM036

Test Conditions

Test Type: Start
 Test Number: 5
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: Hi Spd
 TestBoard: Amtps Performance
 Run Cap: 0
 Start Cap: 0µfd
 Environment: 19.9 Deg C 53 % RH 973 hPa
 Tested: 12/23/2015 9:49:57 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.62 Oz-Ft
 Windage Torque: -2.17 Oz-Ft
 Fixture #4

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	14.203	1103.9	0	9.13	0.000	0.0	67.6
PUT OZ-FT	115.0	14.195	1102.8	2	9.08	0.000	0.0	67.6
	115.0	14.189	1103.1	11	9.28	0.001	0.1	67.6
	115.0	14.134	1101.1	100	12.16	0.015	1.0	67.7
	115.0	14.000	1096.0	215	15.32	0.039	2.7	68.1
	115.0	13.797	1088.9	318	18.69	0.071	4.8	68.6
	115.0	13.548	1082.1	410	22.99	0.112	7.7	69.5
	115.0	13.224	1071.7	496	27.37	0.162	11.2	70.5
	115.0	12.875	1058.1	567	31.19	0.211	14.9	71.5
	115.0	12.479	1040.4	633	34.65	0.261	18.7	72.5
	115.0	12.074	1020.4	691	37.50	0.308	22.5	73.5
	115.0	11.632	997.0	743	40.00	0.354	26.5	74.5
	115.0	11.165	969.4	791	42.04	0.396	30.5	75.5
	115.0	10.681	940.1	834	43.65	0.433	34.4	76.5
	115.0	10.167	905.0	874	44.91	0.467	38.5	77.4
	115.0	9.666	868.9	909	45.22	0.489	42.0	78.2
	115.0	9.197	834.1	941	45.32	0.508	45.4	78.9
	115.0	8.674	791.3	970	44.51	0.514	48.4	79.3
	115.0	8.163	747.8	997	43.49	0.516	51.5	79.7
	115.0	7.656	703.0	1020	41.97	0.509	54.1	79.9
	115.0	7.172	656.7	1041	40.06	0.496	56.4	79.6
	115.0	6.709	610.7	1060	37.72	0.476	58.1	79.1
1075 RPM	115.0	6.330	571.1	1075	35.44	0.454	59.3	78.4
	115.0	6.224	559.8	1079	34.77	0.447	59.5	78.2
	115.0	5.799	513.2	1095	31.77	0.414	60.2	77.0
	115.0	5.404	467.1	1110	28.54	0.377	60.3	75.2
	115.0	5.028	421.0	1124	25.13	0.336	59.6	72.8
0.333 HP	115.0	5.004	417.7	1125	24.86	0.333	59.5	72.6
	115.0	4.662	371.7	1137	21.24	0.288	57.7	69.3
	115.0	4.356	325.0	1150	17.28	0.236	54.3	64.9
	115.0	4.104	279.6	1162	13.27	0.184	49.0	59.2
	115.0	3.895	235.9	1174	9.14	0.128	40.4	52.7
	115.0	3.697	188.3	1186	4.52	0.064	25.3	44.3
	115.0	3.589	145.3	1195	0.00	0.000	0.0	35.2

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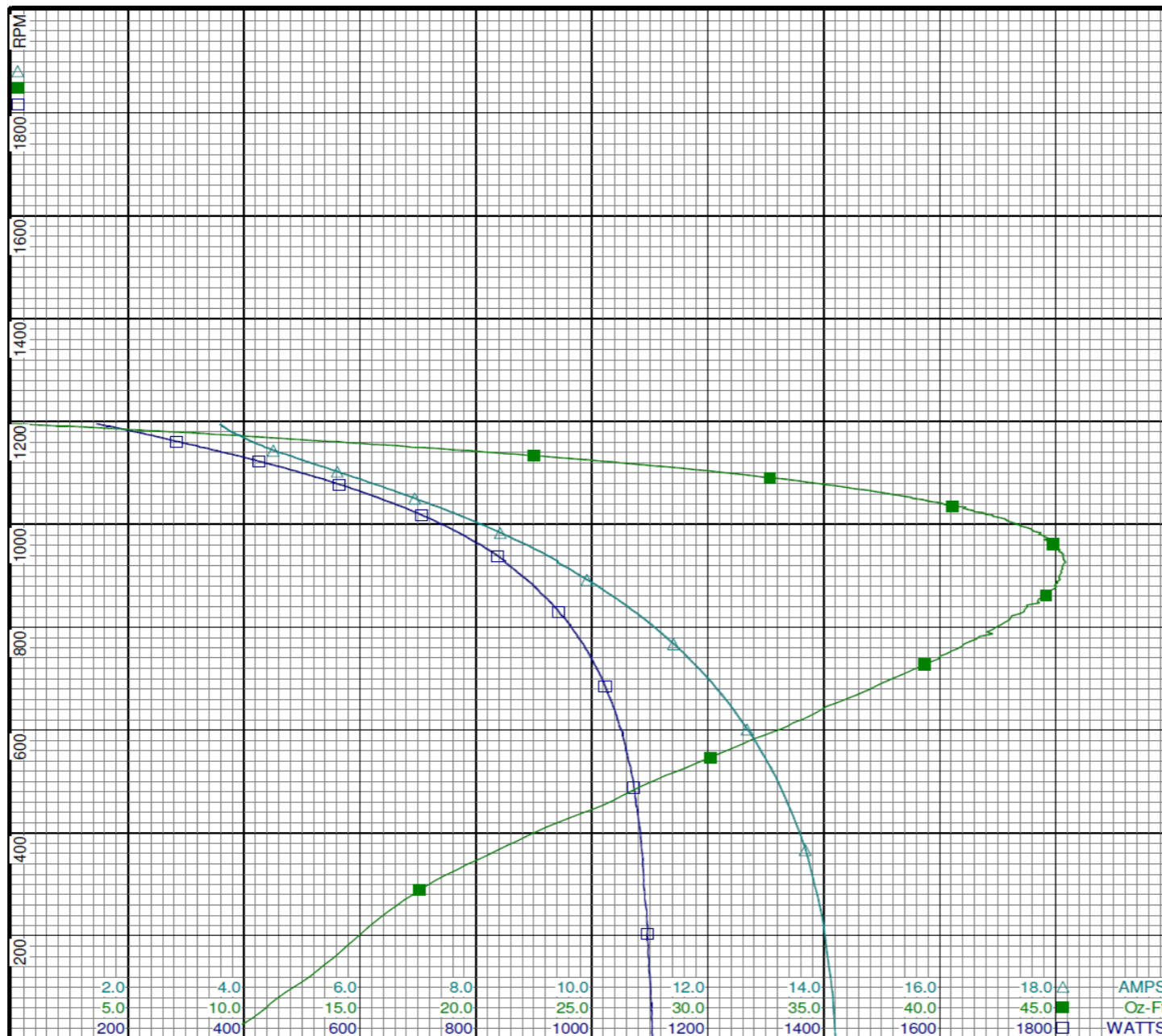
Performance Data



3M469BG

REV.

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Curve Descriptions:

Motor(1) Test 5 Start 115V 60 Hz 6P
Hi Spd

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

Motor Ratings:

(1) 3M469BG

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

Performance Data



3M469BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: 3M469BG
 Motor ID: 1
 Poles: 6
 Volts: 115
 Frequency: 60
 HP: 1/3
 Speed: 1075/2spd
 Phase: 1
 Protector: 7AM036

Test Conditions

Test Type: Run
 Test Number: 2
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: Hi Spd
 Speed Conn:
 TestBoard: Amtps Performance Fixture #4
 Run Cap: 7.5
 Start Cap: 0µfd
 Environment: 19.9 Deg C 53 % RH 973 hPa
 Tested: 12/23/2015 9:47:16 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.53 Oz-Ft
 Windage Torque: -2.05 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	3.585	139.4	1193	0.00	0.000	0.0	33.8
	115.0	3.629	167.1	1187	2.82	0.040	17.8	40.0
	115.0	3.761	204.8	1178	6.57	0.092	33.6	47.3
	115.0	3.902	237.5	1171	9.72	0.136	42.6	52.9
	115.0	4.121	282.7	1159	13.95	0.192	50.8	59.6
	115.0	4.343	322.1	1147	17.48	0.239	55.3	64.5
	115.0	4.691	374.6	1133	22.02	0.297	59.1	69.4
0.333 HP	115.0	4.950	411.1	1124	24.89	0.333	60.4	72.2
	115.0	5.112	431.9	1119	26.53	0.353	61.0	73.5
	115.0	5.573	488.9	1102	30.70	0.403	61.4	76.3
	115.0	6.093	547.8	1082	34.62	0.446	60.7	78.2
1075 RPM	115.0	6.287	568.7	1075	35.94	0.460	60.3	78.7
	115.0	6.700	611.6	1059	38.35	0.483	59.0	79.4
	115.0	7.344	674.8	1033	41.45	0.510	56.4	79.9
	115.0	8.002	736.0	1004	43.85	0.524	53.1	80.0
	115.0	8.816	805.5	964	45.79	0.526	48.7	79.5
	115.0	9.321	846.2	936	46.19	0.515	45.4	78.9
BDT OZ-FT	115.0	9.645	870.1	913	46.25	0.503	43.1	78.4
	115.0	9.876	887.8	898	46.09	0.493	41.4	78.2
	115.0	10.466	927.7	856	45.15	0.460	37.0	77.1
	115.0	11.004	963.5	812	43.76	0.423	32.8	76.1
	115.0	11.484	992.7	767	41.82	0.382	28.7	75.2
	115.0	11.924	1017.2	719	39.66	0.339	24.9	74.2
	115.0	12.309	1036.7	670	37.15	0.296	21.3	73.2
	115.0	12.638	1051.7	620	34.44	0.254	18.0	72.4
	115.0	12.936	1064.6	569	31.78	0.215	15.1	71.6
	115.0	13.197	1075.6	516	29.04	0.178	12.4	70.9
	115.0	13.432	1083.9	459	25.99	0.142	9.8	70.2
	115.0	13.630	1090.5	402	23.24	0.111	7.6	69.6
	115.0	13.799	1094.1	340	20.24	0.082	5.6	68.9
	115.0	13.942	1098.6	278	17.60	0.058	3.9	68.5
	115.0	14.035	1100.3	214	15.58	0.040	2.7	68.2
	115.0	14.117	1104.0	148	13.99	0.025	1.7	68.0

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

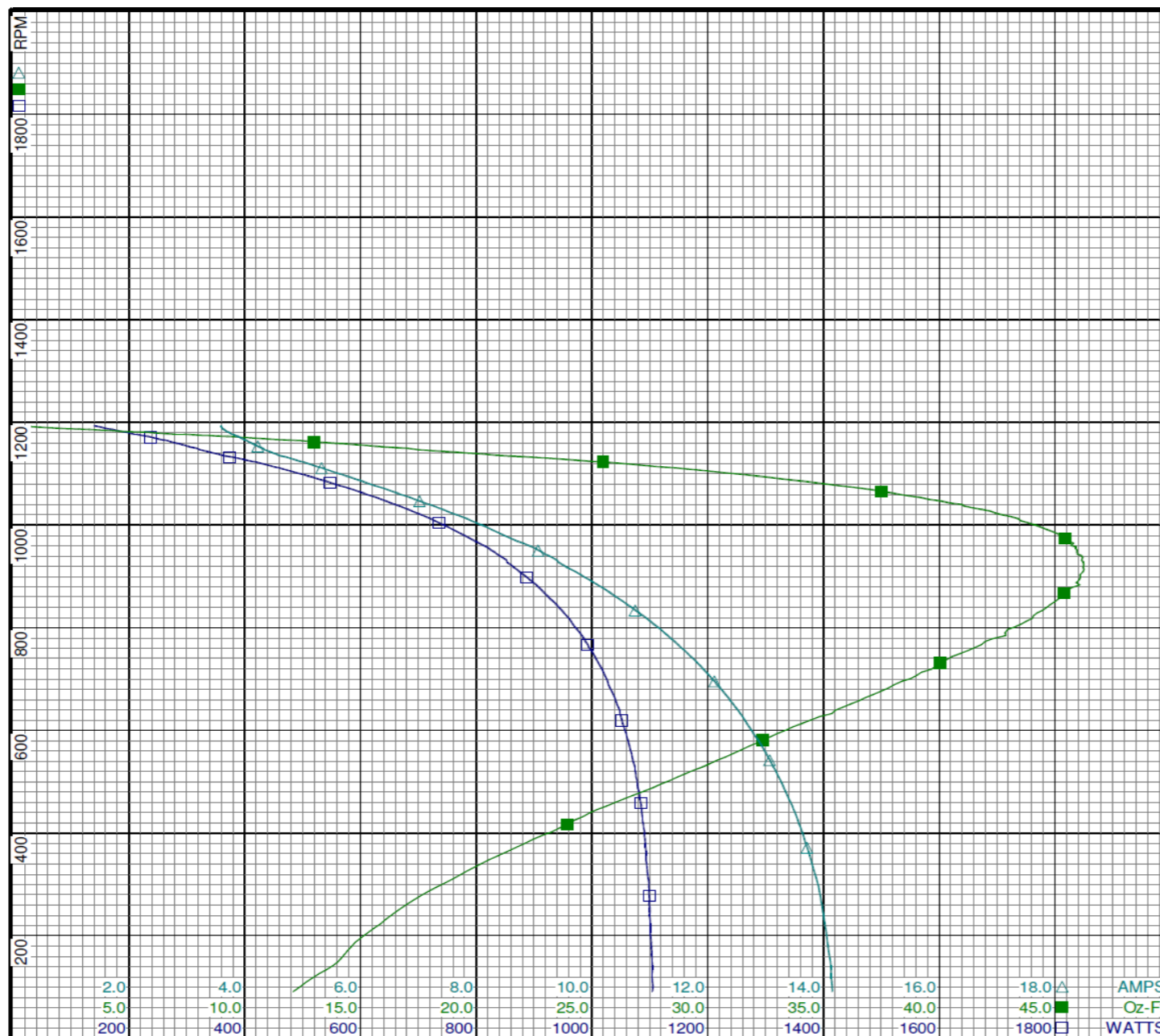
Performance Data



3M469BG

REV.

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Curve Descriptions:

Motor(1) Test 2 Run 115V 60 Hz 6P
Hi Spd 7.5ufd Run

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

Motor Ratings:

(1) 3M469BG

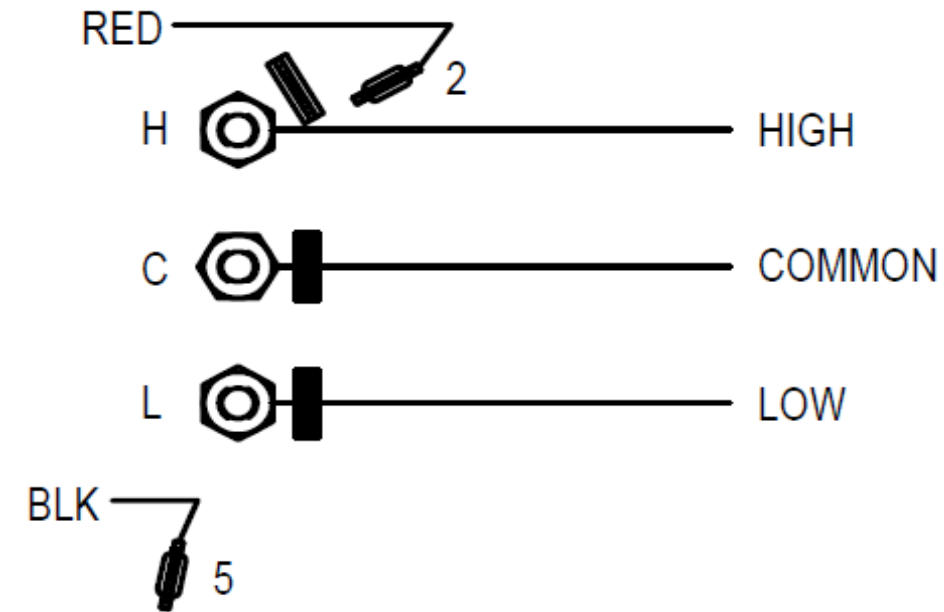
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

3M469BG

REV.
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CONNECTIONS



CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

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Dayton[®]

PEDESTAL FAN MOTOR

HP: 1/3

VOLTS: 115

AMPS: 5.3

RPM: 1075/2SPD

DUTY: CONT

SF: 1.0

KVA CODE: F

ENCL: TEAO

THERMALLY PROTECTED: AUTO

MFG. NO. PROT. CODE: 7A010

MTR REF: K55HXLLH-2364



Part No 3M469BG

PH: 1

HZ: 60

FR: 48YZ

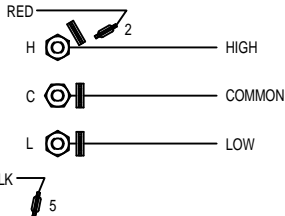
INS CL: B

AMB: 40 °C

SFA:

AVG. F.L.
EFF.**Disconnect Power Before Making Any
Electrical Connections or Changes**

CONNECTIONS

**CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS**

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

Made in Mexico