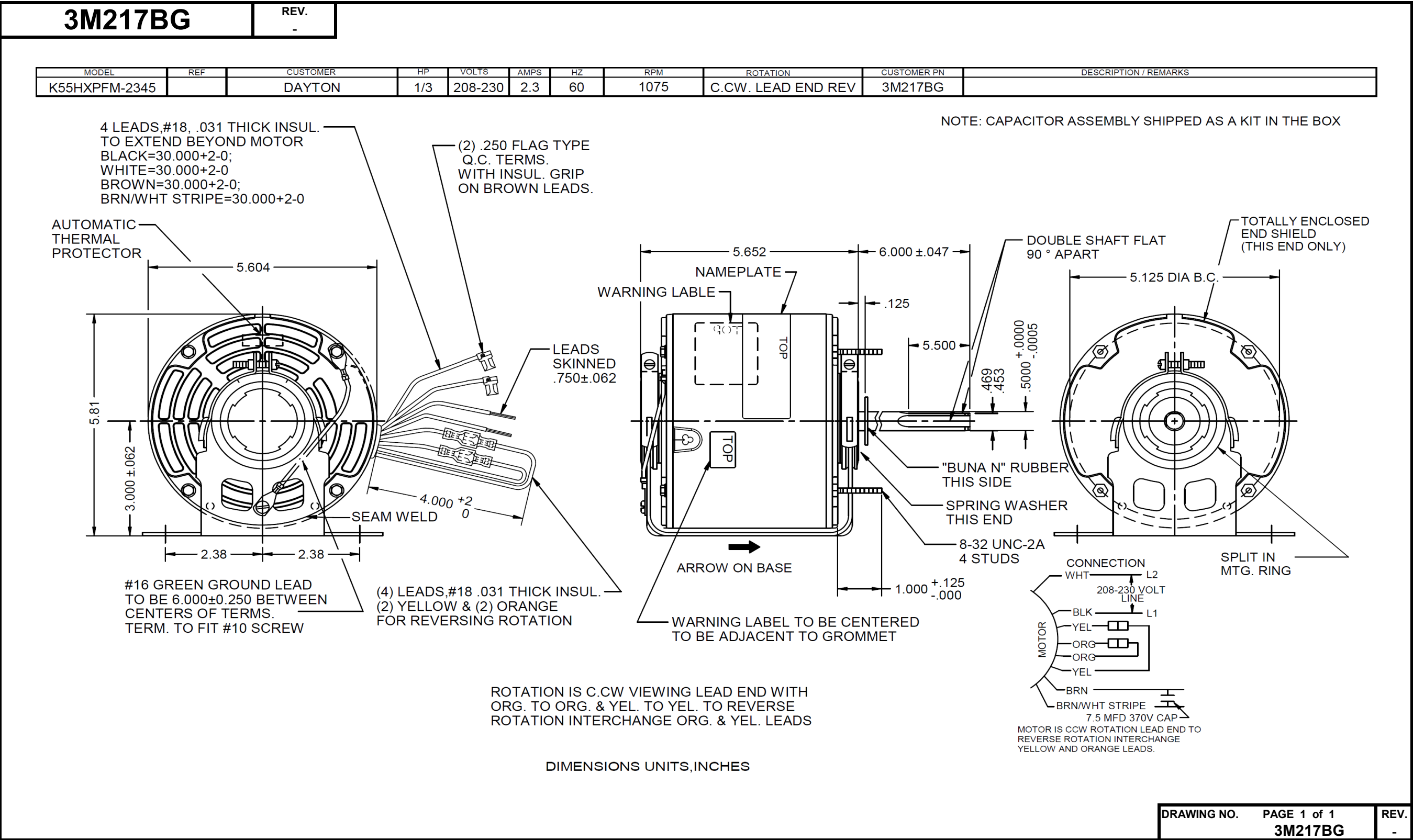


Dimensional Drawing



Performance Data



3M217BG

REV.
-

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/3							
Poles:	6							
Ambient (°C):	60							
Altitude (FASL):	NA							
No. of Speeds:	1							
HIGH SPEED								
Volts:	208-230	208	230					
HZ:	60	60	60					
Service Factor:	NA							
Efficiency:	@ Rated Load	71.20	71.20					
Power Factor:	@ Rated Load	93.50	92.80					
Amps:	@ No Load	0.59	0.76					
	@ Rated Load	1.79	1.64					
	@ Locked Rotor	4.95	5.62					
RPM:	@ Rated Load	1115.00	1137.00					
Torques:	Breakdown	34.15	42.65					
	Locked Rotor	6.14	11.15					
	Pull-Up	6.14	11.15					
	Rated Load	25.10	24.60					
	Service Factor	#VALUE!	#VALUE!					
Watts:	Rated Load	348.80	349.00					
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	CU	CU					
	Run (Main)	CU	CU					
Capacitor(s):	Run (MFD / Volts)							
	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: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							

DRAWING NO. PAGE 1 of 1 REV.
3M217BG -

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

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3M217BG

REV.
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SHADED-POLE & PSC MOTOR PERFORMANCE

MEDIUM-LOW SPEED

HP:								
Volts:		120	208	230	277	460	100	200
HZ:		60	60	60	60	60	50	50
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:								
Volts:		120	208	230	277	460	100	200
HZ:		60	60	60	60	60	50	50
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							

Notes:

DRAWING NO. PAGE REV.
3M217BG -

Performance Data



3M217BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: 3M217BG
Motor ID: 1 OF 1
Poles: 6
Volts: 208-230
Frequency: 60
HP: 1/3
Speed: 1075
Phase: 1
Protector: 7AM036A5

Test Conditions

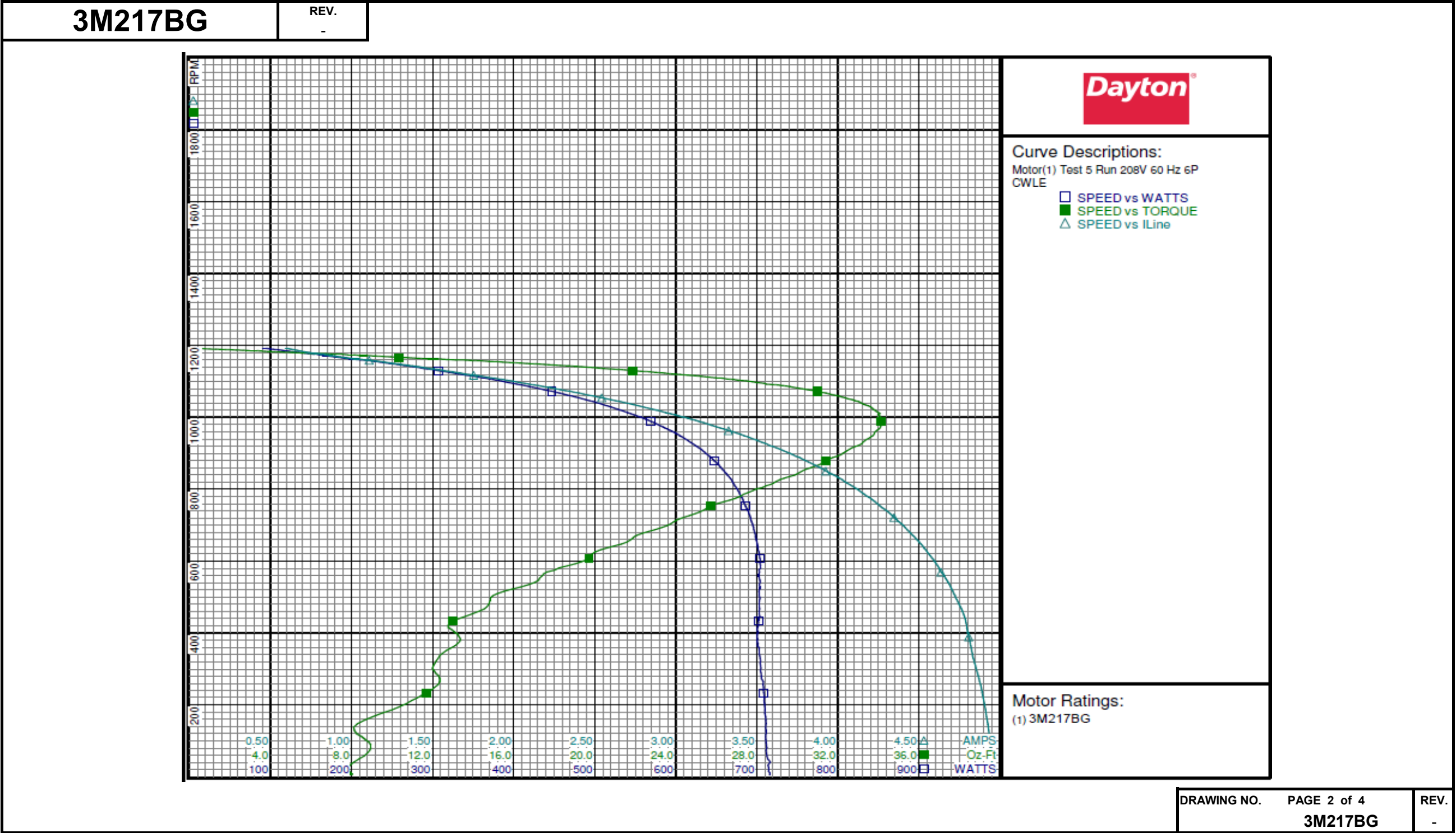
Test Type: Run
Test Number: 5
Poles: 6
Volts: 208
Hz: 60
Rotation: CWLE
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #4
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 8/12/2010 1:50:40 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.09 Oz-Ft
Windage Torque: -0.70 Oz-Ft

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	264.7	370.3	0.595	1.161	1.062	91.1	1192	0.00	0.000	0.0	73.6	7.6
	208.0	261.8	364.6	0.683	1.071	1.048	120.0	1185	3.31	0.047	29.1	84.5	7.6
	208.0	257.1	355.0	0.819	1.007	1.024	155.0	1175	7.24	0.101	48.8	91.0	7.7
	208.0	250.7	342.7	0.970	1.025	0.986	187.5	1166	10.79	0.150	59.6	92.9	7.6
	208.0	241.5	329.0	1.186	1.118	0.942	231.2	1155	15.13	0.208	67.1	93.8	7.6
	208.0	230.5	315.6	1.395	1.257	0.903	273.1	1142	19.02	0.258	70.6	94.1	7.6
	208.0	219.8	302.8	1.621	1.448	0.866	316.4	1127	22.67	0.304	71.7	93.8	7.6
0.333 HP	208.0	212.1	294.3	1.793	1.611	0.842	348.8	1115	25.10	0.333	71.2	93.5	7.6
	208.0	208.0	290.1	1.884	1.703	0.830	365.7	1109	26.29	0.347	70.8	93.3	7.6
	208.0	195.9	278.1	2.152	1.985	0.798	413.8	1088	29.26	0.379	68.3	92.4	7.6
1075 RPM	208.0	188.8	271.5	2.308	2.155	0.781	440.7	1075	30.70	0.393	66.5	91.8	7.6
	208.0	183.3	266.5	2.431	2.291	0.768	461.8	1064	31.61	0.400	64.7	91.3	7.6
	208.0	170.5	255.7	2.710	2.607	0.742	506.3	1038	33.19	0.410	60.4	89.8	7.7
	208.0	157.3	246.1	2.993	2.935	0.718	548.2	1007	33.96	0.407	55.4	88.1	7.7
BDT OZ-FT	208.0	152.3	242.7	3.098	3.058	0.711	563.1	994	34.15	0.404	53.5	87.4	7.8
	208.0	145.0	238.3	3.250	3.237	0.700	583.8	974	34.11	0.395	50.5	86.4	7.8
	208.0	133.2	232.0	3.487	3.521	0.685	613.0	938	33.40	0.373	45.4	84.5	7.8
	208.0	122.2	227.5	3.704	3.782	0.674	636.9	899	32.23	0.345	40.4	82.7	7.9
	208.0	112.3	224.4	3.892	4.011	0.667	655.8	859	30.65	0.313	35.7	81.0	7.9
	208.0	103.5	222.7	4.057	4.214	0.663	670.7	817	28.82	0.280	31.2	79.5	7.9
	208.0	95.6	221.7	4.203	4.394	0.660	682.3	774	26.93	0.248	27.1	78.0	7.9
	208.0	88.3	221.5	4.335	4.558	0.659	691.3	727	24.68	0.214	23.0	76.7	7.9
	208.0	81.9	222.0	4.449	4.698	0.660	697.7	677	22.34	0.180	19.2	75.4	7.9
	208.0	76.0	222.8	4.550	4.826	0.661	702.4	625	20.04	0.149	15.8	74.2	7.9
	208.0	70.3	223.9	4.637	4.942	0.663	703.2	569	17.63	0.119	12.7	72.9	7.9
	208.0	65.2	224.9	4.715	5.046	0.664	702.9	509	15.19	0.092	9.8	71.7	7.8
	208.0	59.8	226.2	4.780	5.130	0.660	703.6	447	13.66	0.073	7.7	70.8	7.7
	208.0	56.7	227.8	4.812	5.178	0.663	701.0	383	13.38	0.061	6.5	70.0	7.7
	208.0	54.9	230.9	4.843	5.221	0.670	703.9	315	12.11	0.045	4.8	69.9	7.7
	208.0	53.7	233.3	4.887	5.277	0.678	708.1	241	11.94	0.034	3.6	69.7	7.7
	208.0	53.4	236.4	4.920	5.325	0.691	711.1	157	8.63	0.016	1.7	69.5	7.8
	208.0	53.4	239.9	4.941	5.361	0.702	711.5	73	8.90	0.008	0.8	69.2	7.8
	208.0	53.5	244.1	4.955	5.391	0.715	716.4	6	7.89	0.001	0.1	69.5	7.8

DRAWING NO. PAGE 1 of 4 REV.
3M217BG -

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

Performance Data



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

Performance Data



3M217BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: 3M217BG
Motor ID: 1 OF 1
Poles: 6
Volts: 208-230
Frequency: 60
HP: 1/3
Speed: 1075
Phase: 1
Protector: 7AM036A5

Test Conditions

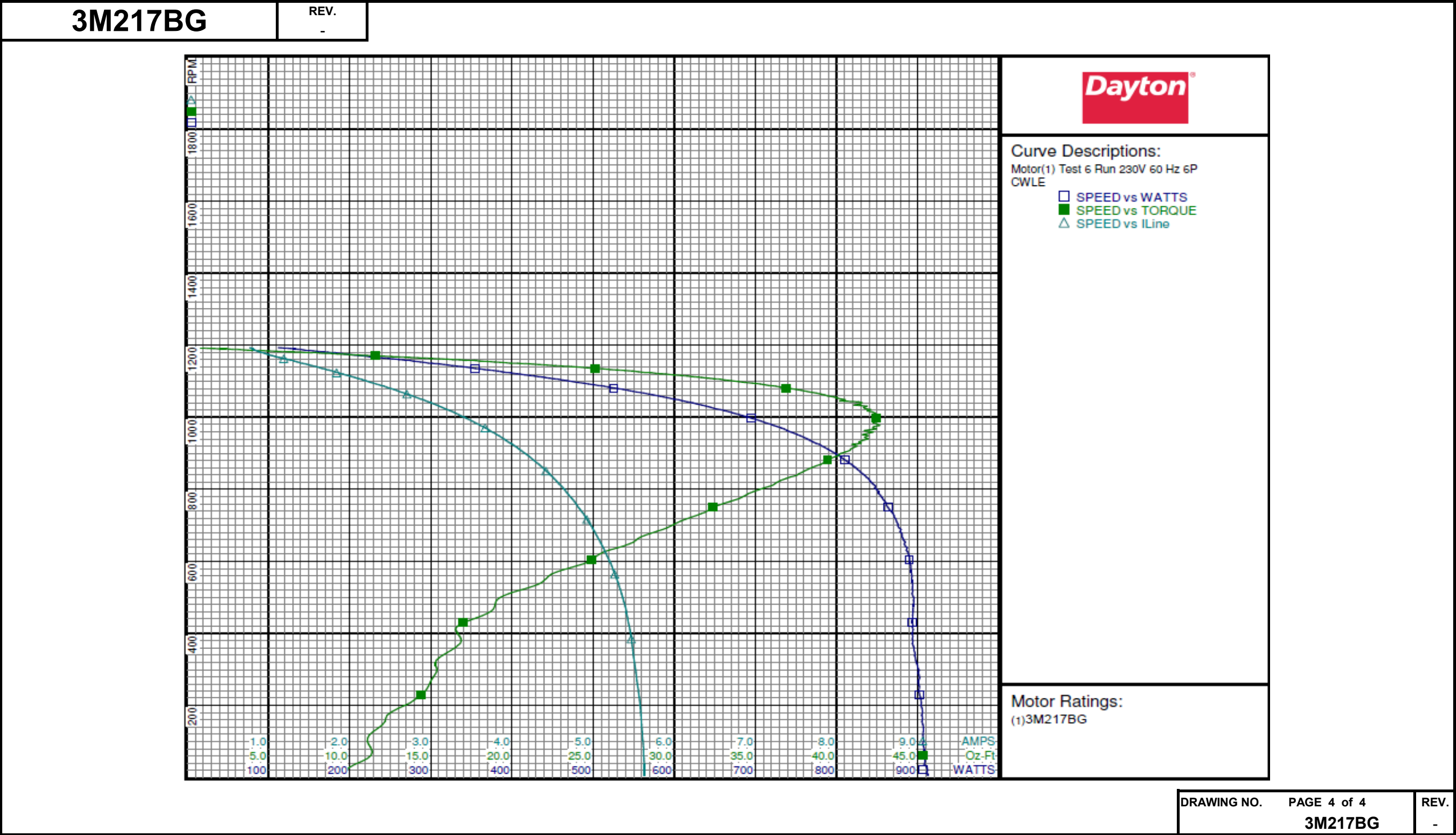
Test Type: Run
Test Number: 6
Poles: 6
Volts: 230
Hz: 60
Rotation: CWLE
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #4
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 8/12/2010 1:48:56 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.11 Oz-Ft
Windage Torque: -0.69 Oz-Ft

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	283.3	401.1	0.772	1.443	1.147	112.0	1193	0.00	0.000	0.0	63.1	7.6
	230.0	281.0	396.0	0.827	1.345	1.133	143.2	1186	3.51	0.050	25.8	75.3	7.6
	230.0	277.1	388.2	0.935	1.263	1.112	181.7	1179	7.92	0.111	45.6	84.5	7.6
	230.0	272.2	378.7	1.070	1.241	1.084	219.4	1169	12.05	0.168	57.0	89.2	7.6
	230.0	264.1	366.0	1.263	1.290	1.046	265.6	1159	16.78	0.231	65.0	91.4	7.6
	230.0	254.3	352.4	1.465	1.389	1.008	312.0	1147	21.29	0.291	69.5	92.6	7.6
0.333 HP	230.0	247.0	342.1	1.635	1.507	0.979	349.0	1137	24.60	0.333	71.2	92.8	7.6
	230.0	243.8	337.7	1.715	1.570	0.967	366.3	1132	26.06	0.351	71.5	92.9	7.6
	230.0	232.6	325.0	1.975	1.798	0.930	422.1	1116	30.44	0.404	71.5	92.9	7.6
	230.0	219.8	312.2	2.261	2.082	0.894	480.9	1096	34.38	0.449	69.6	92.5	7.6
1075 RPM	230.0	206.8	299.9	2.568	2.404	0.861	541.6	1075	37.76	0.483	66.6	91.7	7.6
	230.0	206.5	299.6	2.575	2.412	0.860	542.9	1074	37.83	0.484	66.5	91.7	7.6
	230.0	192.3	287.3	2.906	2.778	0.829	604.8	1048	40.53	0.506	62.4	90.5	7.7
	230.0	177.6	276.0	3.239	3.157	0.801	662.4	1018	41.88	0.507	57.1	88.9	7.7
	230.0	162.3	265.7	3.580	3.553	0.777	717.7	981	42.49	0.496	51.6	87.2	7.8
BDT OZ-FT	230.0	160.8	264.7	3.612	3.590	0.775	722.7	977	42.65	0.496	51.2	87.0	7.8
	230.0	148.7	258.4	3.870	3.894	0.760	759.7	944	41.72	0.469	46.0	85.4	7.8
	230.0	135.8	252.6	4.139	4.216	0.746	795.3	903	40.53	0.436	40.9	83.5	7.8
	230.0	124.2	248.8	4.376	4.501	0.738	823.3	860	38.48	0.394	35.7	81.8	7.9
	230.0	113.9	246.4	4.581	4.745	0.732	844.9	814	36.18	0.351	31.0	80.2	7.9
	230.0	104.8	245.2	4.752	4.958	0.728	857.7	771	33.76	0.310	26.9	78.5	7.9
	230.0	97.0	244.8	4.907	5.149	0.728	871.3	722	31.05	0.267	22.9	77.2	7.9
	230.0	89.8	245.1	5.042	5.316	0.727	880.8	672	28.21	0.226	19.1	75.9	7.9
	230.0	83.3	245.8	5.162	5.464	0.728	888.6	620	25.41	0.188	15.8	74.8	7.9
	230.0	77.0	246.8	5.267	5.597	0.730	892.5	564	22.43	0.151	12.6	73.7	7.8
	230.0	71.2	247.8	5.359	5.716	0.730	893.8	504	19.46	0.117	9.7	72.5	7.8
	230.0	65.9	248.8	5.424	5.803	0.730	893.6	443	17.82	0.094	7.8	71.6	7.8
	230.0	62.0	251.2	5.475	5.872	0.731	894.2	378	16.87	0.076	6.3	71.0	7.7
	230.0	60.4	254.7	5.514	5.924	0.740	899.7	311	15.29	0.057	4.7	70.9	7.7
	230.0	58.2	256.7	5.560	5.985	0.746	901.8	236	14.60	0.041	3.4	70.5	7.7
	230.0	57.6	259.1	5.594	6.032	0.759	905.1	155	12.17	0.022	1.8	70.3	7.8
	230.0	57.9	264.3	5.622	6.078	0.775	908.1	69	11.38	0.009	0.8	70.2	7.8
	230.0	58.2	269.0	5.631	6.107	0.790	912.0	10	8.96	0.001	0.1	70.4	7.8

DRAWING NO. PAGE 3 of 4 REV.
3M217BG -

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

Performance Data

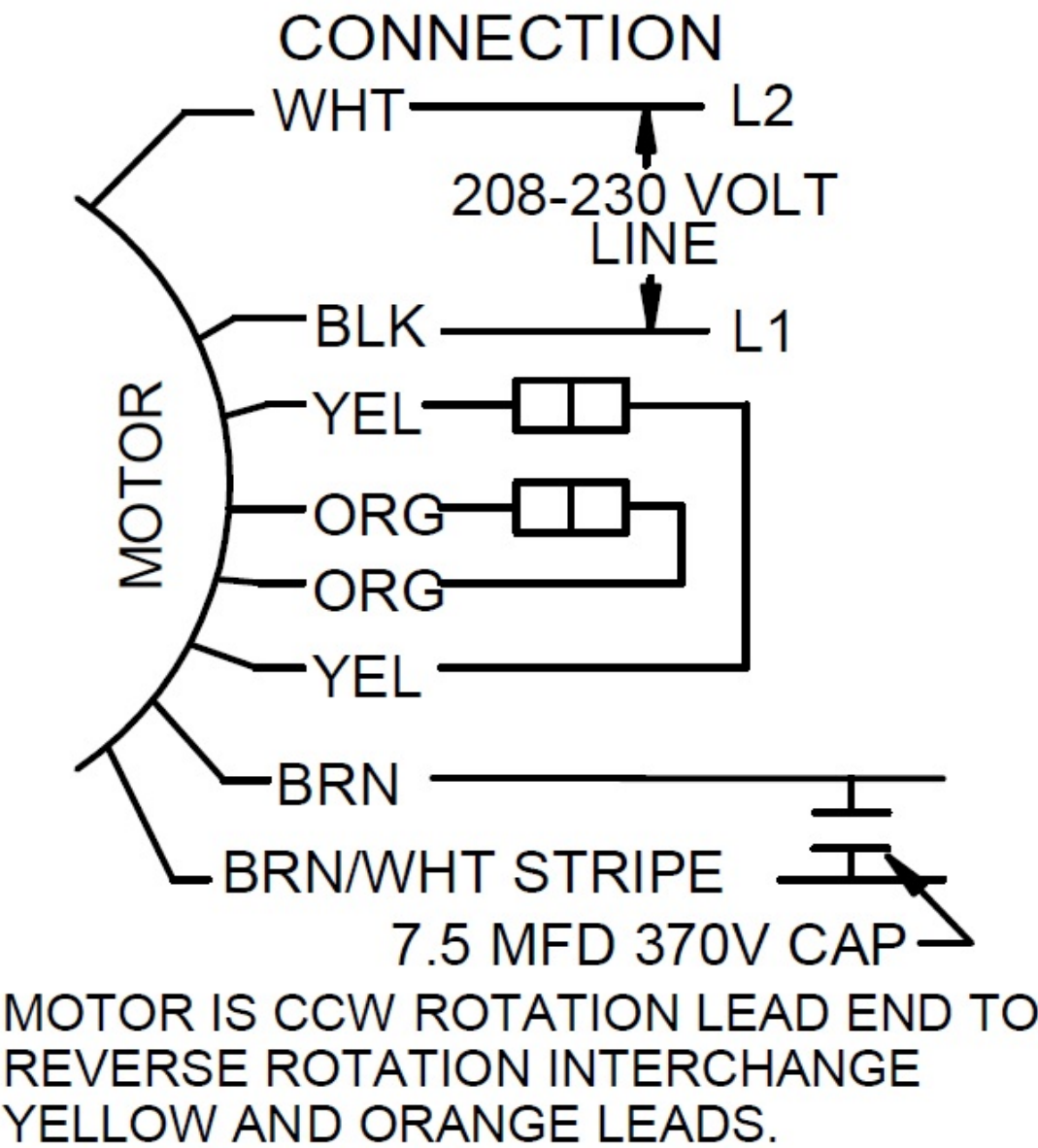


Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Wiring Diagram



3M217BG	REV. -
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DRAWING NO.	PAGE 1 of 1	REV.
3M217BG		-

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

Dayton[®]

CONDENSER FAN MOTOR

HP: 1/3
VOLTS: 208-230

AMPS: 2.3
RPM: 1075
DUTY: CONT

SF:
KVA CODE:
ENCL: OAO
THERMALLY PROTECTED: AUTO

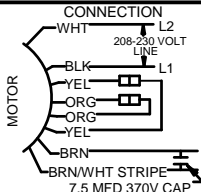
MFG. NO. PROT. CODE: 7A010
MTR REF: K55HXPFM-2345

BAR CODE

Part
No 3M217BG

PH: 1
HZ: 60
FR: 48YZ
INS CL: B
AMB: 60 °C
SFA:

**Disconnect Power Before Making Any
Electrical Connections or Changes**



MOTOR IS CCW ROTATION LEAD END TO
REVERSE ROTATION INTERCHANGE
YELLOW AND ORANGE LEADS.



E37403



258501

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

Made in Mexico