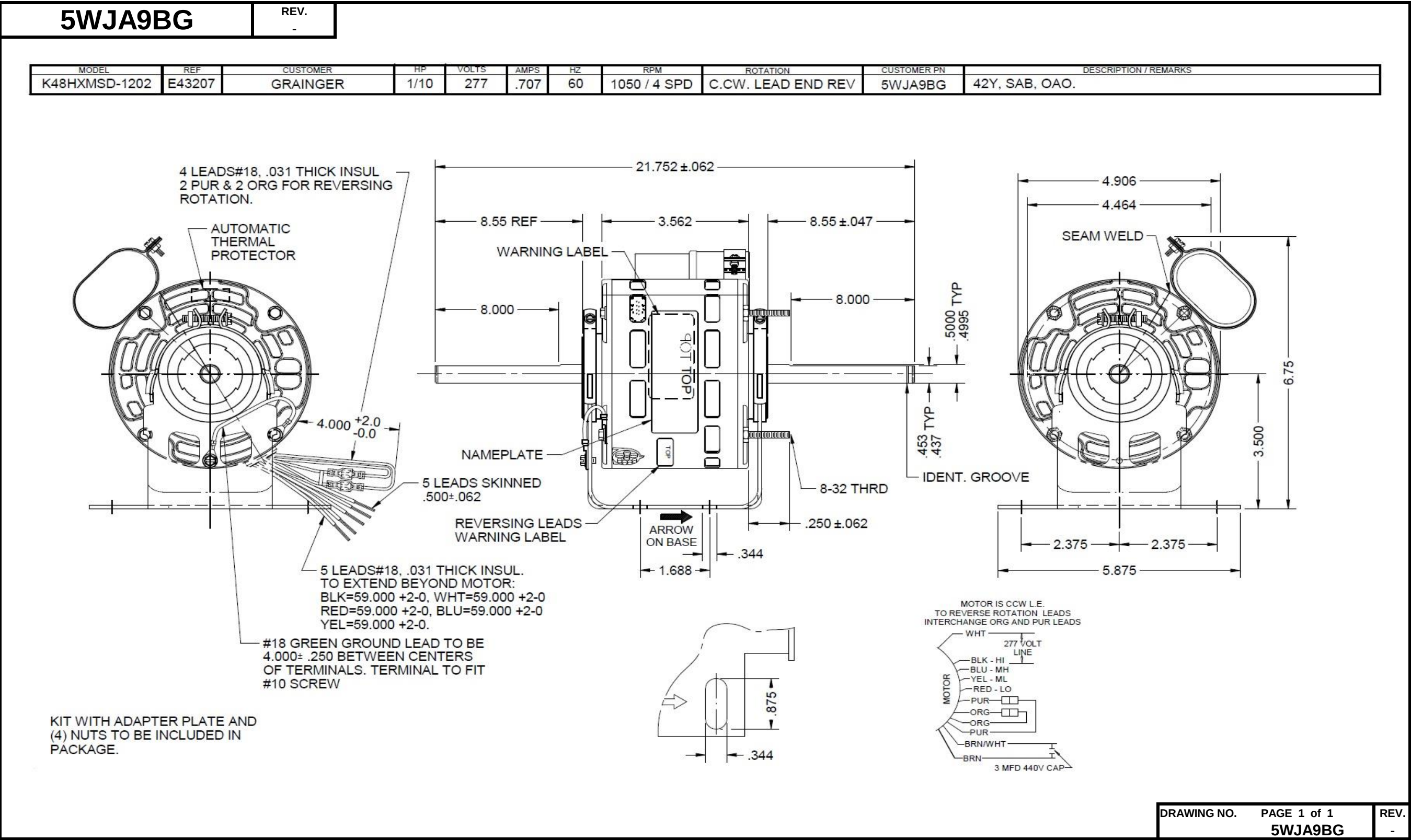


Dimensional Drawing



Performance Data



5WJA9BG

REV.

-

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/10							
Poles:	6							
Ambient (°C):	60							
Altitude (FASL):								
No. of Speeds:	4							
HIGH SPEED								
Volts:	277	277						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	45.9						
Power Factor:	@ Rated Load	99.5						
Amps:	@ No Load							
	@ Rated Load	0.707						
	@ Locked Rotor	1.08						
RPM:	@ Rated Load	1022						
Torques:	Breakdown	10.93						
	Locked Rotor	3.49						
	Pull-Up	3.49						
	Rated Load	9.85						
	Service Factor	N/A						
Watts:	Rated Load	0.12						
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)	3 MFD 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: 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 2
5WJA9BG REV.
-

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

Performance Data



5WJA9BG

REV.

-

SHADED-POLE & PSC MOTOR PERFORMANCE

MEDIUM-LOW SPEED

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

Notes:

DRAWING NO. PAGE 2 of 2
5WJA9BG REV.
-

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

Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

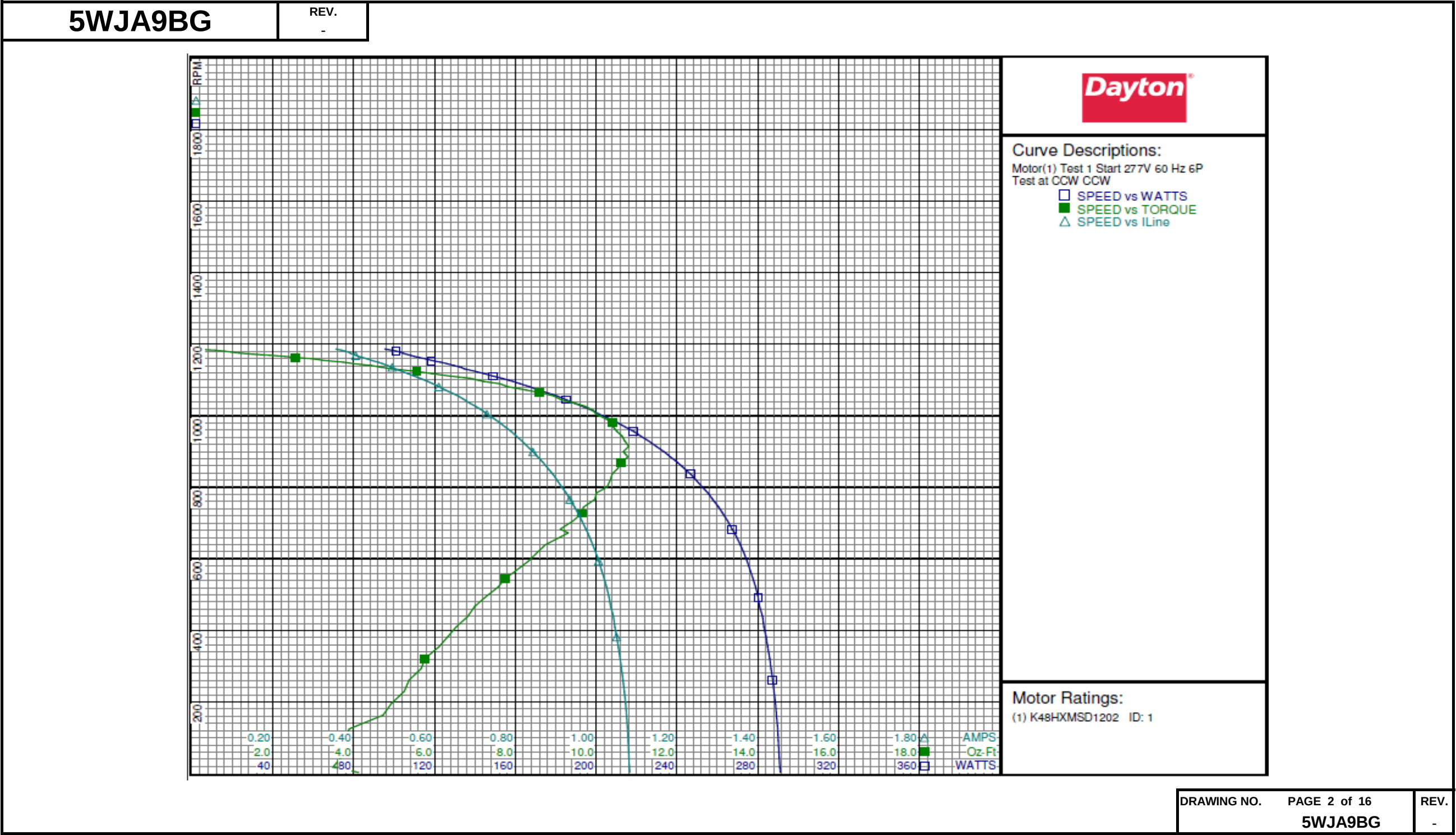
Test Type: Start
Test Number: 1
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: Test at CCW
Speed Conn: CMD InLine Three Phase #2
TestBoard: Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:07:45 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.55 Oz-Ft
Windage Torque: -1.27 Oz-Ft

Special Points PUT OZ-FT	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	80.4	365.5	1.082	290.9	18	3.486	0.001	0.2	97.1
	277.0	80.4	365.5	1.082	290.9	18	3.486	0.001	0.2	97.1
	277.0	82.8	363.5	1.079	290.2	93	3.764	0.004	1.1	97.1
	277.0	85.3	361.3	1.075	289.3	163	4.722	0.009	2.4	97.1
	277.0	87.9	360.2	1.070	288.1	229	5.251	0.014	3.7	97.2
	277.0	90.8	358.8	1.063	286.5	292	5.667	0.020	5.1	97.3
	277.0	93.7	357.9	1.055	284.9	353	6.106	0.026	6.7	97.5
	277.0	97.2	357.2	1.046	283.1	410	6.533	0.032	8.4	97.7
	277.0	101.4	356.9	1.036	280.9	466	6.992	0.039	10.3	97.9
	277.0	106.0	357.5	1.026	278.9	521	7.575	0.047	12.6	98.2
	277.0	110.1	357.9	1.014	276.4	566	8.003	0.054	14.5	98.4
	277.0	115.4	358.8	0.999	273.1	617	8.538	0.063	17.1	98.7
	277.0	121.9	360.1	0.979	268.5	672	9.309	0.074	20.7	99.0
	277.0	126.2	361.4	0.965	265.1	705	9.422	0.079	22.3	99.2
	277.0	131.7	363.2	0.947	260.7	744	9.683	0.086	24.6	99.4
	277.0	137.8	365.6	0.926	255.4	784	10.005	0.093	27.3	99.6
	277.0	144.4	368.7	0.902	249.3	821	10.353	0.101	30.3	99.7
	277.0	150.4	371.7	0.881	243.7	852	10.536	0.107	32.7	99.8
	277.0	157.4	375.7	0.855	236.7	885	10.783	0.114	35.8	99.9
	277.0	164.3	380.1	0.829	229.7	915	10.807	0.118	38.2	100.0
	277.0	171.3	385.0	0.802	222.1	943	10.642	0.119	40.1	99.9
	277.0	178.4	390.3	0.775	214.3	968	10.421	0.120	41.8	99.9
	277.0	185.6	396.0	0.745	205.8	993	10.207	0.121	43.7	99.7
	277.0	192.2	401.7	0.719	198.2	1014	9.936	0.120	45.2	99.6
	277.0	199.7	408.7	0.685	188.6	1036	9.437	0.116	46.0	99.3
	277.0	206.3	414.8	0.657	180.3	1055	8.935	0.112	46.4	99.0
	277.0	212.2	421.4	0.627	171.5	1072	8.268	0.105	45.9	98.8
	277.0	218.5	428.3	0.596	162.4	1089	7.618	0.099	45.4	98.4
	277.0	223.8	435.0	0.564	153.2	1104	6.875	0.090	44.0	98.0
	277.0	228.4	441.8	0.534	144.3	1118	5.924	0.079	40.7	97.6
	277.0	233.4	449.7	0.501	134.7	1131	4.935	0.066	36.8	97.1
	277.0	235.5	453.9	0.484	129.7	1140	4.439	0.060	34.7	96.8
	277.0	238.1	459.4	0.460	122.9	1150	3.734	0.051	31.0	96.4
	277.0	240.7	465.1	0.433	115.6	1159	2.995	0.041	26.7	96.3
	277.0	243.5	469.7	0.412	109.9	1166	2.299	0.032	21.7	96.3
	277.0	245.9	473.8	0.395	105.5	1172	1.419	0.020	14.0	96.4
	277.0	247.0	475.4	0.388	103.4	1177	0.992	0.014	10.0	96.3
	277.0	248.0	478.4	0.370	99.0	1183	0.570	0.008	6.0	96.5
	277.0	249.7	481.3	0.356	95.3	1187	0.000	0.000	0.0	96.7

DRAWING NO. PAGE 1 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

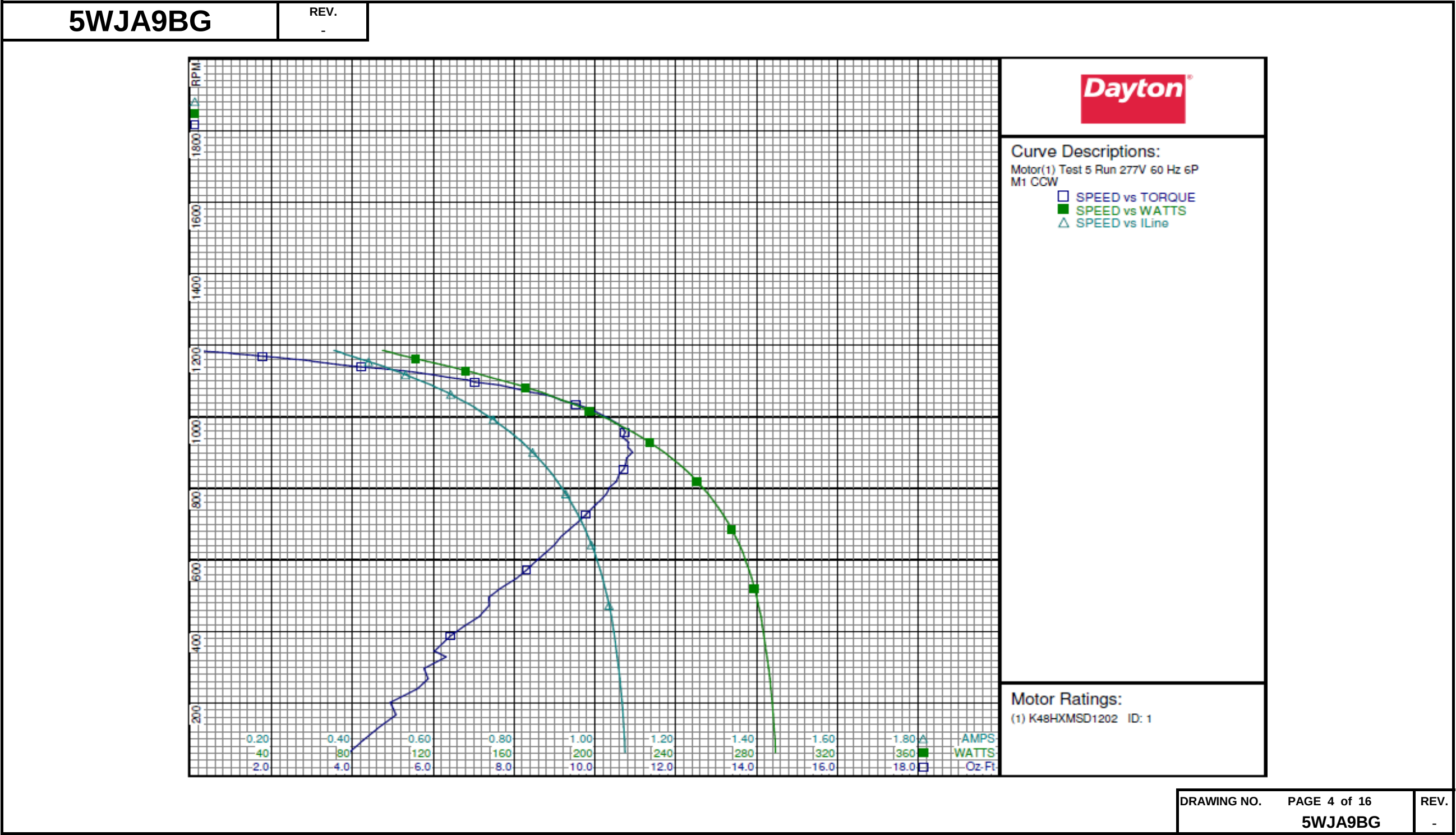
Test Type: Run
Test Number: 5
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M1
Speed Conn: CMD InLine Three Phase #2
TestBoard: Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 9:32:05 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.68 Oz-Ft
Windage Torque: -0.80 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	249.1	481.1	0.354	94.9	1186	0.000	0.000	0.0	96.7
	277.0	248.5	479.7	0.361	96.6	1183	0.334	0.005	3.6	96.6
	277.0	246.5	476.6	0.376	100.5	1178	0.975	0.014	10.1	96.5
	277.0	245.3	474.2	0.387	103.3	1173	1.442	0.020	14.5	96.4
	277.0	243.2	470.1	0.408	109.0	1166	2.164	0.030	20.6	96.3
	277.0	241.2	465.9	0.429	114.5	1158	2.832	0.039	25.4	96.3
	277.0	239.0	460.9	0.454	121.1	1150	3.393	0.046	28.6	96.4
	277.0	235.4	454.0	0.481	129.0	1139	4.220	0.057	33.1	96.8
	277.0	232.1	448.1	0.505	135.9	1129	5.245	0.070	38.7	97.2
	277.0	228.8	441.9	0.532	143.8	1117	5.993	0.080	41.4	97.6
	277.0	224.2	435.1	0.563	152.8	1103	6.843	0.090	43.9	98.1
	277.0	219.0	428.2	0.595	162.1	1089	7.612	0.099	45.4	98.4
0.1 HP	277.0	218.0	427.0	0.600	163.6	1086	7.734	0.100	45.6	98.5
	277.0	211.5	419.9	0.633	173.5	1069	8.403	0.107	46.0	98.9
	277.0	206.9	414.9	0.655	179.8	1055	8.990	0.113	46.8	99.0
1050 RPM	277.0	205.3	413.3	0.663	182.1	1050	9.087	0.114	46.5	99.1
	277.0	200.1	408.1	0.688	189.3	1035	9.541	0.118	46.4	99.3
9.85 OZ-FT	277.0	195.7	403.9	0.707	194.9	1022	9.850	0.120	45.9	99.5
	277.0	193.8	402.3	0.715	197.1	1016	9.987	0.121	45.7	99.5
	277.0	186.3	395.4	0.749	206.8	993	10.369	0.123	44.2	99.7
	277.0	179.2	389.9	0.776	214.8	969	10.682	0.123	42.8	99.9
	277.0	171.9	384.4	0.806	223.0	942	10.685	0.120	40.1	99.9
	277.0	165.0	379.6	0.832	230.5	915	10.813	0.118	38.1	100.0
BDT OZ-FT	277.0	161.5	377.3	0.846	234.3	901	10.931	0.117	37.3	100.0
	277.0	157.8	375.2	0.859	237.8	885	10.782	0.114	35.6	99.9
	277.0	151.4	371.5	0.883	244.2	855	10.720	0.109	33.3	99.9
	277.0	144.5	367.9	0.907	250.5	819	10.529	0.103	30.6	99.7
	277.0	138.5	365.2	0.928	256.0	785	10.286	0.096	28.0	99.6
	277.0	132.5	363.0	0.948	261.0	747	9.949	0.088	25.3	99.4
	277.0	127.0	361.0	0.967	265.7	705	9.577	0.080	22.6	99.2
	277.0	121.2	359.5	0.984	269.6	664	9.150	0.072	20.0	98.9
	277.0	116.3	358.5	0.999	273.2	621	8.787	0.065	17.7	98.7
	277.0	111.2	357.5	1.013	276.3	572	8.306	0.057	15.3	98.5
	277.0	106.6	357.0	1.025	278.9	521	7.663	0.047	12.7	98.2
	277.0	102.7	356.7	1.035	280.9	473	7.382	0.042	11.0	98.0
	277.0	98.0	356.9	1.044	282.8	414	6.756	0.033	8.8	97.8
	277.0	93.8	357.6	1.053	284.7	345	6.030	0.025	6.5	97.6
	277.0	91.5	358.5	1.059	285.9	297	5.769	0.020	5.3	97.5
	277.0	88.8	359.3	1.064	287.0	239	5.606	0.016	4.2	97.4
	277.0	86.1	361.2	1.069	288.3	167	5.076	0.010	2.6	97.3
	277.0	83.6	362.7	1.073	289.2	96	4.263	0.005	1.3	97.3

DRAWING NO. PAGE 3 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

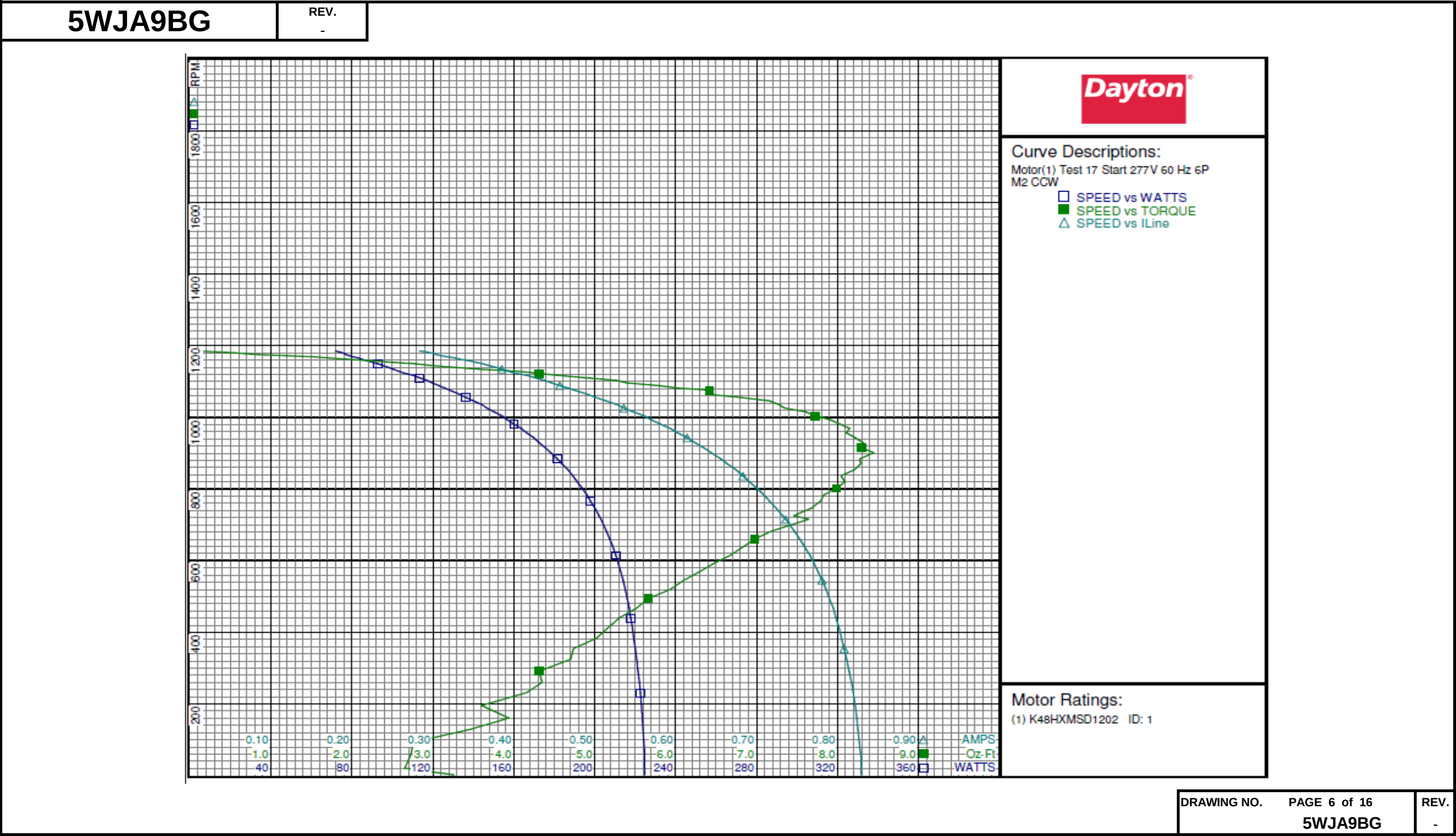
Test Type: Start
Test Number: 17
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M2
Speed Conn: CMD InLine Three Phase #2
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.55 Oz-Ft
Windage Torque: -0.81 Oz-Ft
Fixture #1

Special Points PUT OZ-FT	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	75.6	337.2	0.829	224.7	21	2.652	0.001	0.2	97.9
	277.0	75.6	337.2	0.829	224.7	21	2.652	0.001	0.2	97.9
	277.0	77.5	335.7	0.827	224.3	93	2.756	0.003	1.0	97.9
	277.0	79.6	333.9	0.824	223.5	160	3.937	0.008	2.5	97.9
	277.0	82.2	332.6	0.819	222.5	231	4.156	0.011	3.8	98.0
	277.0	84.7	331.5	0.814	221.3	291	4.314	0.015	5.0	98.1
	277.0	87.4	330.6	0.808	220.0	354	4.736	0.020	6.8	98.3
	277.0	90.5	330.2	0.802	218.6	412	5.162	0.025	8.6	98.4
	277.0	94.0	330.1	0.795	217.1	467	5.515	0.031	10.5	98.6
	277.0	97.9	329.8	0.786	215.1	520	5.935	0.037	12.7	98.8
	277.0	102.0	330.1	0.776	212.8	570	6.303	0.043	15.0	99.0
	277.0	106.1	330.7	0.766	210.4	615	6.678	0.049	17.3	99.2
	277.0	110.7	331.4	0.753	207.3	661	6.980	0.055	19.8	99.4
	277.0	116.9	332.7	0.736	203.1	715	7.642	0.065	23.9	99.6
	277.0	120.8	333.9	0.724	200.1	746	7.676	0.068	25.4	99.7
	277.0	125.9	335.6	0.709	196.1	783	7.830	0.073	27.8	99.8
	277.0	131.7	337.9	0.691	191.3	820	8.091	0.079	30.8	99.9
	277.0	137.1	340.3	0.674	186.7	854	8.210	0.083	33.4	100.0
	277.0	142.6	343.1	0.656	181.6	884	8.276	0.087	35.8	100.0
	277.0	149.0	346.7	0.635	175.6	915	8.300	0.090	38.4	99.9
	277.0	155.2	350.4	0.614	169.8	943	8.215	0.092	40.5	99.8
	277.0	161.5	354.8	0.593	163.6	969	8.149	0.094	42.9	99.6
	277.0	167.8	359.6	0.570	156.7	993	7.911	0.093	44.5	99.3
	277.0	174.0	364.5	0.547	150.1	1015	7.603	0.092	45.7	99.0
	277.0	179.5	369.0	0.528	144.3	1035	7.283	0.090	46.4	98.6
	277.0	186.2	375.2	0.501	136.2	1055	6.806	0.085	46.8	98.1
	277.0	193.0	381.5	0.474	128.1	1076	6.420	0.082	47.9	97.5
	277.0	197.2	386.2	0.457	122.8	1089	5.788	0.075	45.6	97.1
	277.0	201.6	391.0	0.438	117.0	1103	5.267	0.069	44.1	96.5
	277.0	205.9	396.6	0.416	110.2	1117	4.541	0.060	40.9	95.7
	277.0	209.9	403.6	0.393	102.9	1128	4.040	0.054	39.4	94.6
	277.0	213.5	408.4	0.379	98.2	1139	3.307	0.045	34.1	93.6
	277.0	216.5	413.9	0.362	92.8	1149	2.781	0.038	30.6	92.6
	277.0	219.0	418.6	0.344	87.5	1158	2.198	0.030	25.8	92.0
	277.0	221.6	422.8	0.328	83.1	1166	1.718	0.024	21.4	91.6
	277.0	223.6	427.4	0.310	78.6	1172	1.171	0.016	15.5	91.6
	277.0	225.8	429.3	0.302	76.5	1178	0.688	0.010	9.4	91.4
	277.0	226.8	431.4	0.293	74.0	1182	0.376	0.005	5.3	91.3
	277.0	227.8	433.3	0.283	71.8	1185	0.088	0.001	1.3	91.4

DRAWING NO. PAGE 5 of 16 REV.
5WJA9BG -

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

Performance Data



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

Performance Data



5WJA9BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

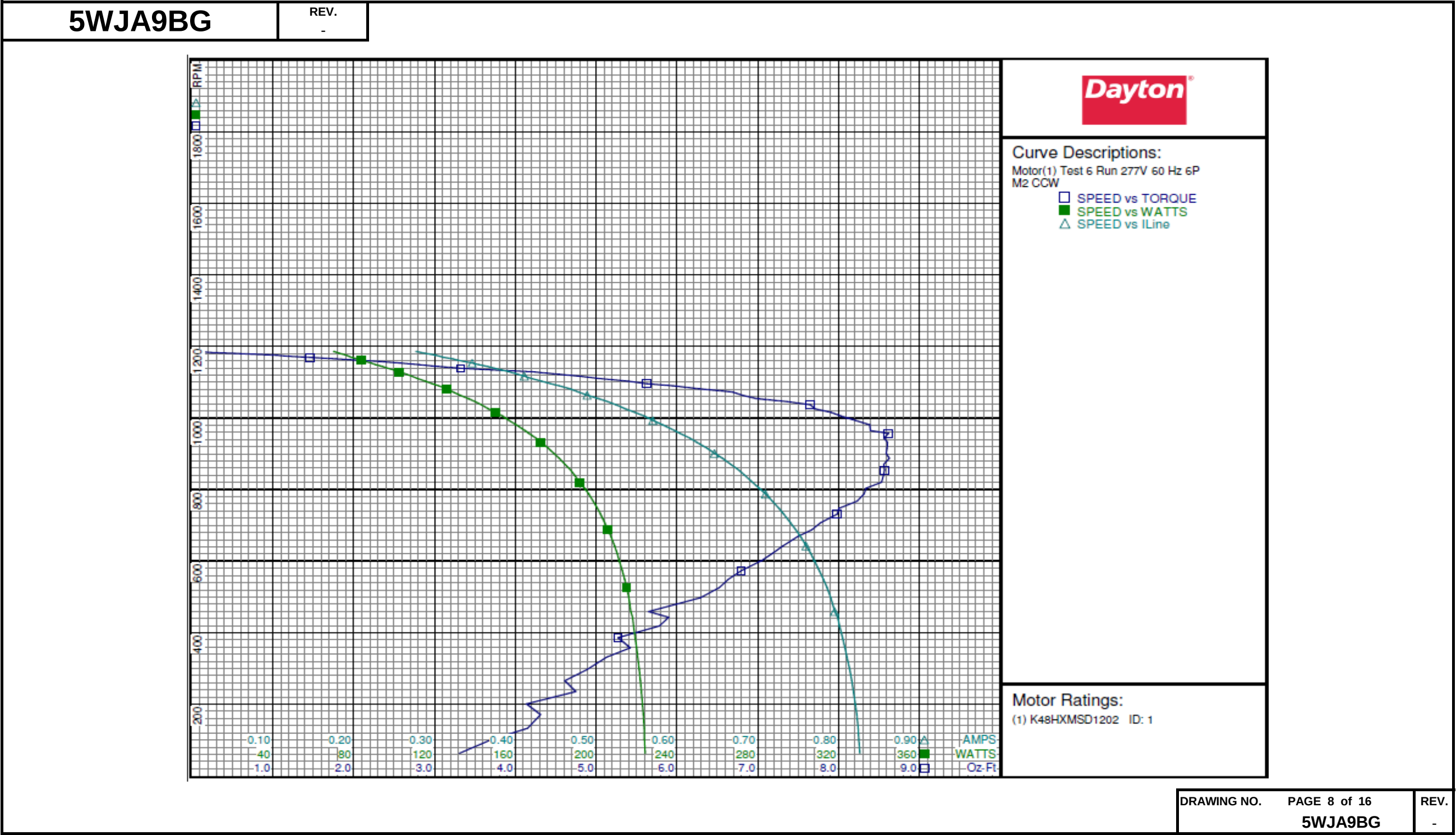
Test Type: Run
Test Number: 6
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M2
Speed Conn: M2
TestBoard: CMD InLine Three Phase #2 Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:13:31 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.48 Oz-Ft
Windage Torque: -0.87 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	114.4	171.7	0.277	70.0	1186	0.000	0.000	0.0	91.3
	277.0	114.5	171.6	0.283	71.6	1183	0.234	0.003	3.4	91.4
	277.0	114.7	171.4	0.294	74.4	1178	0.731	0.010	10.3	91.3
	277.0	115.0	171.2	0.306	77.6	1172	1.193	0.017	16.0	91.4
	277.0	115.3	170.9	0.322	81.8	1165	1.776	0.025	22.5	91.6
	277.0	115.6	170.7	0.337	85.7	1158	2.324	0.032	27.9	91.9
	277.0	115.9	170.3	0.355	90.8	1149	2.808	0.038	31.5	92.5
	277.0	116.4	169.8	0.374	96.9	1139	3.326	0.045	34.7	93.4
	277.0	116.9	169.4	0.392	102.5	1129	4.204	0.057	41.1	94.5
	277.0	117.3	169.0	0.411	108.8	1117	4.798	0.064	43.7	95.5
	277.0	117.7	168.5	0.432	115.5	1102	5.397	0.071	45.8	96.4
	277.0	118.1	168.1	0.454	122.1	1090	5.955	0.077	47.2	97.0
	277.0	118.5	167.6	0.478	129.1	1073	6.684	0.085	49.3	97.6
	277.0	118.9	167.1	0.503	136.7	1054	6.984	0.088	47.8	98.1
1050 RPM	277.0	118.9	167.0	0.508	138.3	1050	7.166	0.090	48.3	98.2
	277.0	119.2	166.7	0.524	143.2	1037	7.650	0.094	49.2	98.5
	277.0	119.5	166.2	0.548	150.2	1015	7.910	0.096	47.5	99.0
	277.0	119.8	165.7	0.570	156.9	993	8.210	0.097	46.1	99.3
	277.0	120.3	165.1	0.597	164.9	964	8.395	0.096	43.6	99.6
	277.0	120.5	164.7	0.616	170.1	943	8.562	0.096	42.2	99.8
	277.0	120.7	164.3	0.637	176.3	915	8.601	0.094	39.7	99.9
BDT OZ-FT	277.0	121.0	163.9	0.656	181.8	887	8.628	0.091	37.4	99.9
	277.0	121.0	163.9	0.656	181.8	887	8.628	0.091	37.4	99.9
	277.0	121.2	163.5	0.676	187.3	854	8.569	0.087	34.7	100.0
	277.0	121.4	163.2	0.693	191.9	820	8.532	0.083	32.4	99.9
	277.0	121.5	162.9	0.710	196.3	787	8.316	0.078	29.6	99.8
	277.0	121.7	162.5	0.726	200.6	747	8.002	0.071	26.5	99.7
	277.0	121.8	162.2	0.741	204.3	707	7.775	0.065	23.9	99.6
	277.0	121.9	162.0	0.753	207.3	669	7.497	0.060	21.5	99.4
	277.0	122.0	161.7	0.766	210.4	621	7.182	0.053	18.8	99.2
	277.0	122.1	161.5	0.776	212.9	573	6.798	0.046	16.3	99.0
	277.0	122.1	161.2	0.786	215.1	525	6.522	0.041	14.1	98.8
	277.0	122.3	160.9	0.795	217.2	459	5.650	0.031	10.6	98.6
	277.0	122.3	160.8	0.801	218.5	418	5.785	0.029	9.8	98.5
	277.0	122.3	160.6	0.808	220.0	357	5.423	0.023	7.8	98.3
	277.0	122.3	160.5	0.814	221.3	297	4.887	0.017	5.8	98.2
	277.0	122.3	160.4	0.818	222.3	235	4.749	0.013	4.5	98.1
	277.0	122.2	160.3	0.822	223.3	170	4.312	0.009	2.9	98.0
	277.0	122.2	160.2	0.825	223.9	101	3.710	0.004	1.5	98.0

DRAWING NO. PAGE 7 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

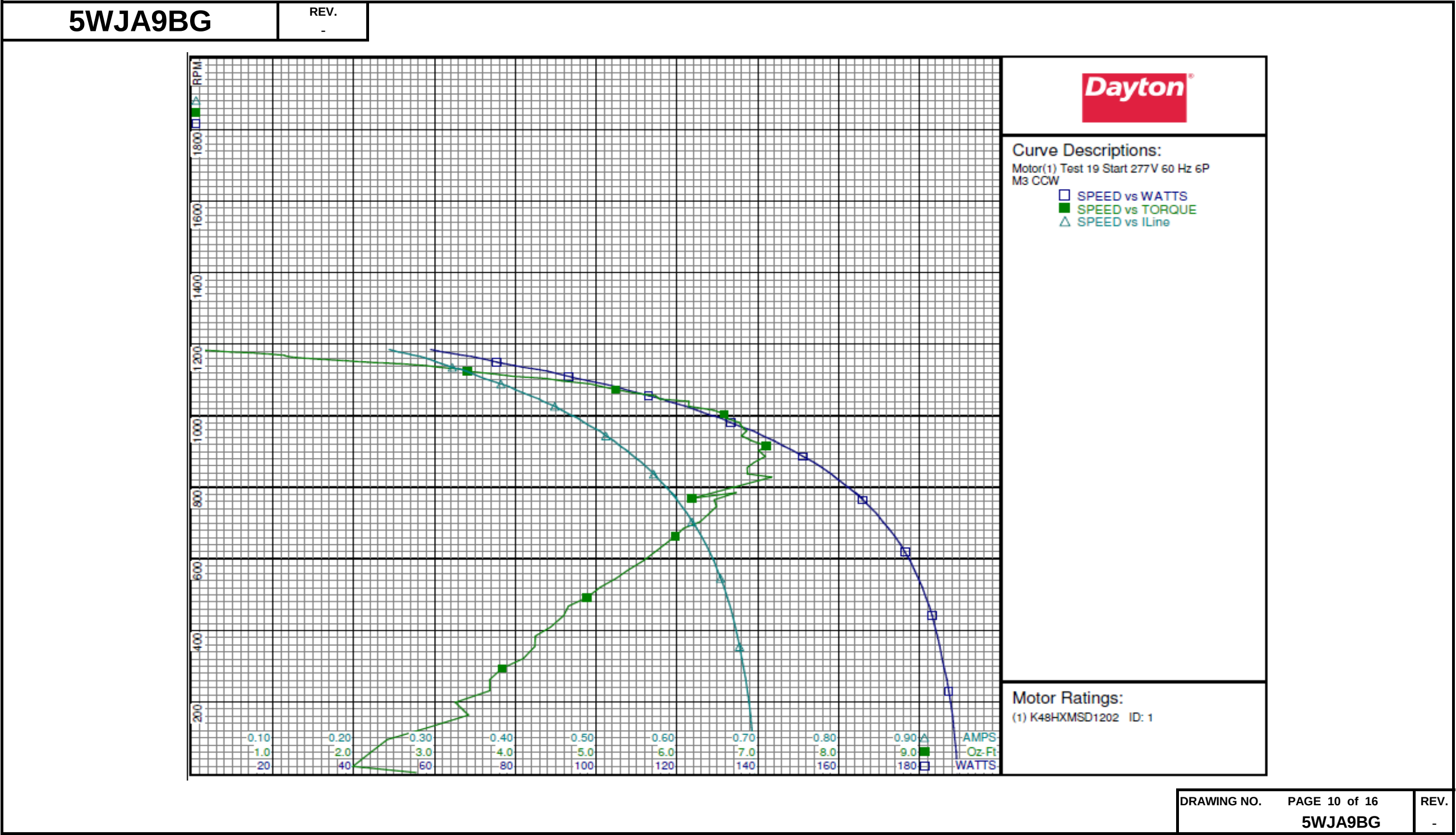
Test Type: Start
Test Number: 19
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M3
Speed Conn:
TestBoard: CMD InLine Three Phase #2 Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:18:48 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.55 Oz-Ft
Windage Torque: -0.76 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	277.0	72.1	319.7	0.695	189.22	20	1.989	0.000	0.2	98.3
	277.0	72.1	319.7	0.695	189.22	20	1.989	0.000	0.2	98.3
	277.0	73.8	318.1	0.693	188.76	95	2.413	0.003	1.1	98.3
	277.0	76.0	316.6	0.691	188.18	163	3.419	0.007	2.6	98.3
	277.0	78.0	315.3	0.687	187.25	231	3.685	0.010	4.0	98.4
	277.0	80.2	314.4	0.682	186.16	294	3.835	0.013	5.4	98.5
	277.0	83.0	313.4	0.677	185.03	355	4.242	0.018	7.2	98.6
	277.0	85.5	313.0	0.672	183.87	409	4.437	0.022	8.8	98.7
	277.0	88.7	312.5	0.666	182.44	468	4.656	0.026	10.6	98.9
	277.0	92.5	312.3	0.658	180.70	521	5.054	0.031	12.9	99.1
	277.0	95.8	312.4	0.650	178.78	567	5.386	0.036	15.2	99.3
	277.0	100.1	312.8	0.640	176.44	618	5.722	0.042	17.8	99.4
	277.0	104.3	313.3	0.630	173.82	664	5.984	0.047	20.3	99.6
	277.0	108.5	314.1	0.619	170.92	704	6.287	0.053	23.0	99.7
	277.0	113.3	315.1	0.606	167.59	746	6.491	0.058	25.7	99.8
	277.0	118.1	316.6	0.593	164.13	785	6.732	0.063	28.6	99.9
	277.0	124.4	318.7	0.575	159.12	828	7.172	0.071	33.1	100.0
	277.0	128.3	320.3	0.563	155.93	855	6.868	0.070	33.4	99.9
	277.0	133.8	322.8	0.546	151.18	886	7.093	0.075	36.9	99.9
	277.0	139.2	325.7	0.530	146.30	915	7.106	0.077	39.5	99.7
	277.0	144.9	328.9	0.512	141.23	943	6.798	0.076	40.3	99.5
	277.0	150.7	332.7	0.493	135.60	970	6.798	0.078	43.2	99.3
	277.0	155.7	335.9	0.477	130.89	993	6.603	0.078	44.5	99.0
	277.0	161.6	340.5	0.458	124.91	1015	6.453	0.078	46.6	98.6
	277.0	168.6	345.9	0.434	117.70	1040	6.150	0.076	48.3	97.9
	277.0	172.7	349.6	0.418	112.99	1055	5.733	0.072	47.6	97.5
	277.0	178.1	354.6	0.399	107.18	1073	5.243	0.067	46.6	96.9
	277.0	182.6	358.9	0.382	101.82	1089	4.925	0.064	46.8	96.2
	277.0	187.6	364.8	0.361	95.12	1104	4.368	0.057	45.0	95.2
	277.0	191.2	369.2	0.347	90.62	1117	3.728	0.050	40.8	94.2
	277.0	194.6	374.1	0.332	85.51	1129	3.369	0.045	39.5	92.9
	277.0	198.2	380.6	0.316	79.78	1140	2.894	0.039	36.7	91.2
	277.0	201.5	386.0	0.303	75.46	1149	2.171	0.030	29.4	89.9
	277.0	204.0	389.7	0.293	72.37	1158	1.570	0.022	22.3	89.1
	277.0	206.4	392.8	0.282	69.03	1166	1.172	0.016	17.6	88.3
	277.0	208.8	396.6	0.267	64.88	1173	0.909	0.013	14.6	87.8
	277.0	210.3	399.5	0.256	62.14	1178	0.485	0.007	8.2	87.7
	277.0	212.0	401.5	0.247	59.86	1183	0.142	0.002	2.5	87.5
	277.0	212.6	402.3	0.244	58.99	1185	0.000	0.000	0.0	87.3

DRAWING NO. PAGE 9 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

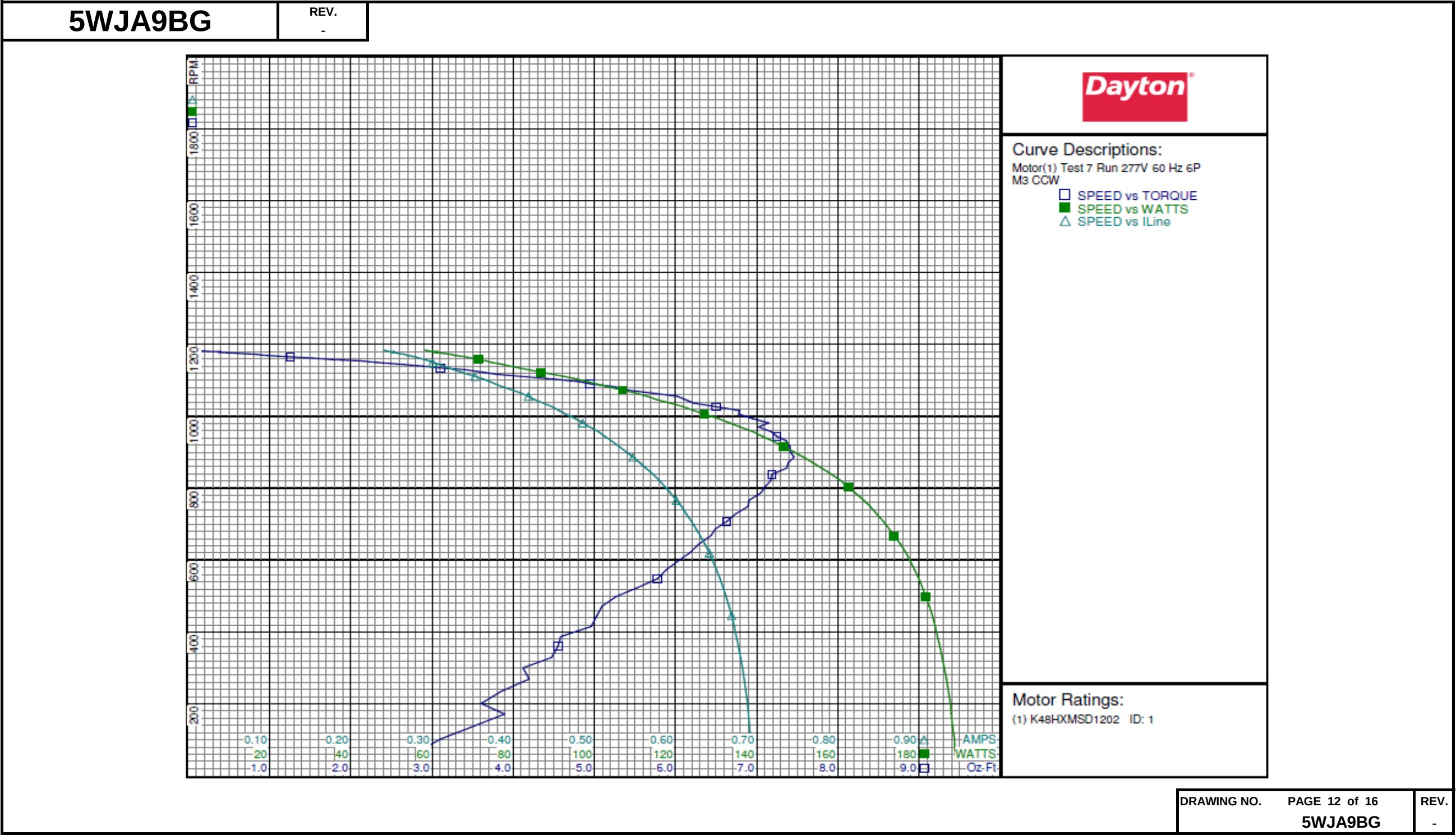
Test Type: Run
Test Number: 7
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M3
Speed Conn:
TestBoard: CMD InLine Three Phase #2 Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:17:10 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.53 Oz-Ft
Windage Torque: -0.73 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	212.6	403.0	0.240	58.13	1184	0.000	0.000	0.0	87.4
	277.0	211.8	401.4	0.246	59.67	1180	0.244	0.003	4.3	87.4
	277.0	211.3	400.8	0.249	60.33	1178	0.372	0.005	6.4	87.4
	277.0	208.1	395.6	0.270	65.66	1169	0.951	0.013	15.0	87.9
	277.0	205.3	391.5	0.284	69.62	1162	1.525	0.021	22.6	88.5
	277.0	202.9	387.8	0.297	73.25	1154	2.112	0.029	29.6	89.2
	277.0	199.8	383.1	0.309	77.39	1144	2.624	0.036	34.5	90.4
	277.0	196.7	378.2	0.320	81.51	1134	3.104	0.042	38.4	91.8
	277.0	193.7	372.5	0.336	86.97	1122	3.624	0.048	41.5	93.4
	277.0	189.6	366.8	0.353	92.55	1111	4.107	0.054	43.8	94.6
	277.0	185.2	361.5	0.371	98.35	1096	4.819	0.063	47.7	95.6
	277.0	181.2	357.4	0.387	103.27	1082	5.252	0.068	48.9	96.4
	277.0	175.6	351.7	0.410	110.29	1064	5.726	0.073	49.1	97.1
1050 RPM	277.0	171.7	348.2	0.423	114.40	1050	6.079	0.076	49.6	97.6
	277.0	170.6	347.4	0.426	115.46	1046	6.122	0.076	49.3	97.7
	277.0	165.0	342.5	0.448	121.95	1026	6.504	0.079	48.6	98.3
	277.0	159.8	338.6	0.465	127.13	1006	6.777	0.081	47.6	98.7
	277.0	153.6	334.0	0.486	133.33	981	7.147	0.083	46.7	99.1
	277.0	147.9	330.2	0.505	139.10	957	7.180	0.082	43.9	99.4
	277.0	142.8	327.2	0.521	143.70	932	7.362	0.082	42.4	99.6
	277.0	136.8	324.0	0.539	149.07	901	7.415	0.080	39.8	99.8
BDT OZ-FT	277.0	134.0	322.5	0.548	151.52	886	7.460	0.079	38.7	99.9
	277.0	131.4	321.3	0.556	153.83	871	7.387	0.077	37.1	99.9
	277.0	125.9	319.0	0.572	158.48	838	7.187	0.072	33.8	100.0
	277.0	120.8	317.0	0.587	162.55	803	7.101	0.068	31.2	99.9
	277.0	115.9	315.6	0.601	166.35	766	6.907	0.063	28.3	99.9
	277.0	111.4	314.5	0.613	169.49	729	6.744	0.059	25.8	99.8
	277.0	106.8	313.5	0.625	172.67	686	6.491	0.053	22.9	99.7
	277.0	102.6	312.9	0.636	175.41	644	6.286	0.048	20.5	99.5
	277.0	98.4	312.4	0.646	177.82	597	6.027	0.043	18.0	99.4
	277.0	94.6	312.2	0.655	179.97	548	5.777	0.038	15.6	99.2
	277.0	91.2	312.3	0.662	181.66	499	5.273	0.031	12.9	99.1
	277.0	87.6	312.6	0.669	183.31	445	5.031	0.027	10.9	98.9
	277.0	84.6	312.9	0.675	184.53	387	4.586	0.021	8.5	98.7
	277.0	81.8	313.6	0.680	185.69	328	4.471	0.017	7.0	98.6
	277.0	79.5	314.6	0.685	186.77	269	4.197	0.013	5.4	98.5
	277.0	77.3	315.8	0.689	187.72	201	3.605	0.009	3.4	98.4
	277.0	75.2	317.0	0.691	188.27	134	3.467	0.006	2.2	98.3
	277.0	73.3	318.6	0.693	188.88	65	2.818	0.002	0.9	98.3

DRAWING NO. PAGE 11 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

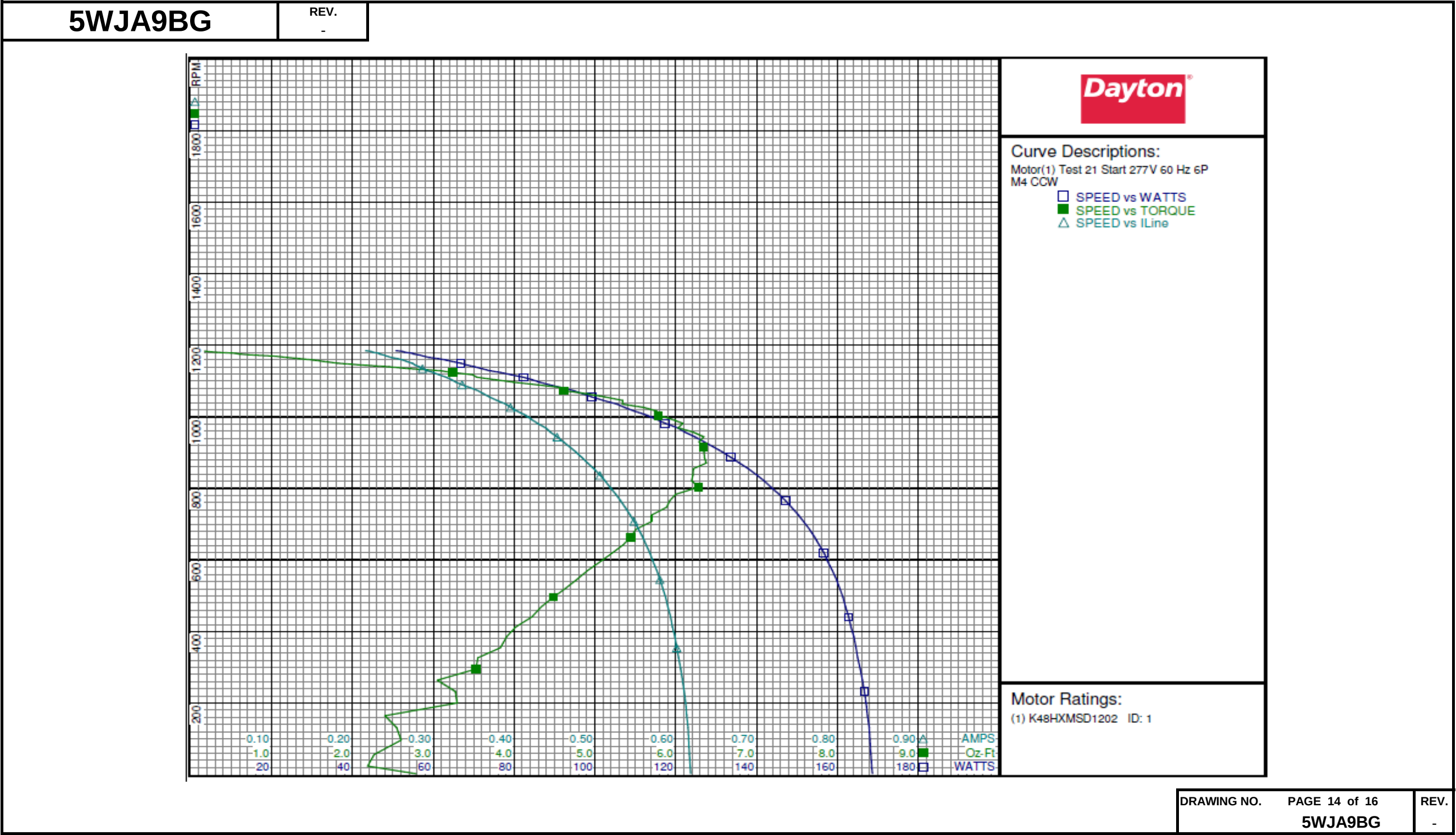
Test Type: Start
Test Number: 21
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M4
Speed Conn: CMD InLine Three Phase #2
TestBoard: Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:22:43 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.51 Oz-Ft
Windage Torque: -1.00 Oz-Ft

Special Points PUT OZ-FT	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	70.0	308.1	0.618	168.51	24	2.186	0.001	0.3	98.5
	277.0	70.0	308.1	0.618	168.51	24	2.186	0.001	0.3	98.5
	277.0	71.6	306.9	0.616	168.05	96	2.600	0.003	1.3	98.5
	277.0	73.3	305.6	0.614	167.44	164	2.399	0.005	2.1	98.5
	277.0	75.5	304.2	0.610	166.69	232	3.270	0.009	4.1	98.6
	277.0	77.6	303.1	0.606	165.68	295	3.526	0.012	5.6	98.7
	277.0	79.9	302.3	0.601	164.59	354	3.828	0.016	7.3	98.8
	277.0	82.4	301.4	0.596	163.36	412	4.020	0.020	9.0	99.0
	277.0	85.7	300.9	0.590	162.01	469	4.334	0.024	11.1	99.1
	277.0	88.7	301.0	0.584	160.61	519	4.626	0.029	13.3	99.3
	277.0	92.3	301.0	0.576	158.77	570	4.908	0.033	15.6	99.4
	277.0	96.3	301.4	0.568	156.70	619	5.213	0.038	18.3	99.6
	277.0	100.1	301.6	0.559	154.37	664	5.442	0.043	20.8	99.7
	277.0	104.3	302.2	0.548	151.63	707	5.700	0.048	23.6	99.8
	277.0	108.5	303.0	0.537	148.66	747	5.885	0.052	26.3	99.9
	277.0	112.8	304.2	0.526	145.57	783	5.999	0.056	28.7	99.9
	277.0	117.7	305.7	0.512	141.85	821	6.196	0.061	31.9	99.9
	277.0	122.6	307.4	0.499	137.96	855	6.218	0.063	34.2	99.9
	277.0	127.7	309.7	0.484	133.69	886	6.355	0.067	37.4	99.8
	277.0	132.7	312.1	0.469	129.44	915	6.341	0.069	39.8	99.6
	277.0	138.0	314.9	0.453	124.72	944	6.348	0.071	42.7	99.4
	277.0	142.9	317.7	0.439	120.47	969	6.029	0.070	43.1	99.1
	277.0	148.4	321.5	0.421	115.13	993	5.951	0.070	45.6	98.7
	277.0	154.1	325.4	0.403	109.71	1016	5.761	0.070	47.4	98.2
	277.0	158.5	328.6	0.390	105.50	1035	5.339	0.066	46.5	97.7
	277.0	164.3	333.6	0.369	99.16	1055	5.118	0.064	48.4	97.0
	277.0	168.7	337.2	0.355	94.80	1073	4.613	0.059	46.4	96.4
	277.0	173.6	342.2	0.336	88.77	1089	4.293	0.056	46.8	95.4
	277.0	177.7	346.5	0.322	84.30	1104	3.749	0.049	43.6	94.5
	277.0	181.4	351.1	0.307	79.23	1118	3.486	0.046	43.7	93.2
	277.0	185.3	357.0	0.292	73.88	1129	3.076	0.041	41.7	91.4
	277.0	188.6	362.0	0.283	70.18	1140	2.451	0.033	35.4	89.7
	277.0	191.2	366.4	0.274	66.84	1149	1.819	0.025	27.8	88.1
	277.0	194.0	370.3	0.263	63.12	1159	1.516	0.021	24.7	86.8
	277.0	196.6	374.3	0.248	58.90	1166	1.187	0.016	20.9	85.8
	277.0	198.4	377.5	0.238	56.54	1173	0.759	0.011	14.0	85.7
	277.0	200.0	379.2	0.232	54.79	1178	0.551	0.008	10.5	85.1
	277.0	201.5	381.7	0.223	52.37	1183	0.188	0.003	3.8	84.9
	277.0	202.5	383.2	0.216	50.69	1185	0.000	0.000	0.0	84.7

DRAWING NO. PAGE 13 of 16 REV.
5WJA9BG -

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

Performance Data



Performance Data



5WJA9BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K48HXMSD1202
Motor ID: 1
Poles: 6
Volts: 277
Frequency: 60
HP: 1/10
Speed: 1050
Phase: 1
Protector: 7AM036 A5

Test Conditions

Test Type: Run
Test Number: 8
Poles: 6
Volts: 277
Hz: 60
Rotation: CCW
Special Cond: M4
Speed Conn:
TestBoard: CMD InLine Three Phase #2 Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 6/17/2016 10:20:48 AM
Tested By: Navarro, Susana
Gear Ratio: 1:1
Bearing Friction: -0.52 Oz-Ft
Windage Torque: -0.75 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	201.9	382.2	0.220	51.57	1183	0.000	0.000	0.0	84.8
	277.0	201.5	381.5	0.222	52.14	1180	0.113	0.002	2.3	84.8
	277.0	199.7	378.8	0.233	54.93	1175	0.544	0.008	10.3	85.1
	277.0	198.0	376.3	0.241	56.99	1169	0.917	0.013	16.7	85.5
	277.0	195.4	372.3	0.254	60.57	1162	1.413	0.020	24.1	86.3
	277.0	193.0	369.0	0.263	63.55	1154	1.864	0.026	30.1	87.1
	277.0	189.9	364.4	0.275	67.50	1144	2.320	0.032	34.9	88.5
	277.0	187.1	359.7	0.286	71.48	1134	2.768	0.037	39.0	90.4
	277.0	183.6	353.7	0.300	76.61	1122	3.084	0.041	40.1	92.3
	277.0	180.1	349.0	0.312	81.00	1111	3.640	0.048	44.3	93.7
	277.0	176.0	344.3	0.327	85.94	1096	4.164	0.054	47.2	94.9
	277.0	172.0	340.1	0.343	91.03	1081	4.510	0.058	47.6	95.8
	277.0	166.9	335.1	0.362	96.78	1064	5.092	0.065	49.7	96.6
1050 RPM	277.0	163.3	332.2	0.374	100.51	1050	5.344	0.067	49.6	97.1
	277.0	162.3	331.4	0.377	101.62	1046	5.398	0.067	49.3	97.3
	277.0	156.7	326.7	0.396	107.48	1026	5.735	0.070	48.6	97.9
	277.0	151.9	323.4	0.411	112.03	1006	6.031	0.072	48.1	98.4
	277.0	146.5	319.6	0.429	117.35	981	6.270	0.073	46.6	98.8
	277.0	140.7	315.8	0.447	122.87	956	6.391	0.073	44.2	99.2
	277.0	135.9	313.1	0.462	127.33	931	6.507	0.072	42.3	99.5
	277.0	130.4	310.4	0.478	131.96	901	6.512	0.070	39.5	99.7
BDT OZ-FT	277.0	128.0	309.4	0.485	134.06	886	6.597	0.070	38.7	99.8
	277.0	125.3	308.1	0.493	136.29	871	6.529	0.068	37.1	99.8
	277.0	120.4	306.2	0.507	140.35	838	6.544	0.065	34.7	99.9
	277.0	115.7	304.8	0.519	143.76	804	6.435	0.062	31.9	100.0
	277.0	111.0	303.4	0.532	147.33	766	6.324	0.058	29.2	99.9
	277.0	107.0	302.5	0.543	150.19	731	6.146	0.053	26.6	99.9
	277.0	102.5	301.7	0.554	153.21	687	5.864	0.048	23.3	99.8
	277.0	98.5	301.2	0.564	155.64	643	5.684	0.044	20.9	99.7
	277.0	94.6	301.0	0.573	157.93	597	5.454	0.039	18.3	99.5
	277.0	91.1	300.9	0.581	159.82	549	5.142	0.034	15.7	99.4
	277.0	87.6	300.9	0.588	161.51	497	4.755	0.028	13.0	99.2
	277.0	84.5	301.5	0.594	162.99	448	4.672	0.025	11.4	99.1
	277.0	81.6	301.7	0.599	164.12	387	4.103	0.019	8.6	98.9
	277.0	78.9	302.6	0.604	165.19	329	3.822	0.015	6.8	98.8
	277.0	77.0	303.3	0.608	166.12	271	3.637	0.012	5.3	98.7
	277.0	74.8	304.6	0.611	167.03	202	3.232	0.008	3.5	98.6
	277.0	72.7	306.1	0.614	167.66	134	3.295	0.005	2.3	98.6
	277.0	70.9	307.3	0.616	168.11	64	2.615	0.002	0.9	98.5

DRAWING NO. PAGE 15 of 16 REV.
5WJA9BG -

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

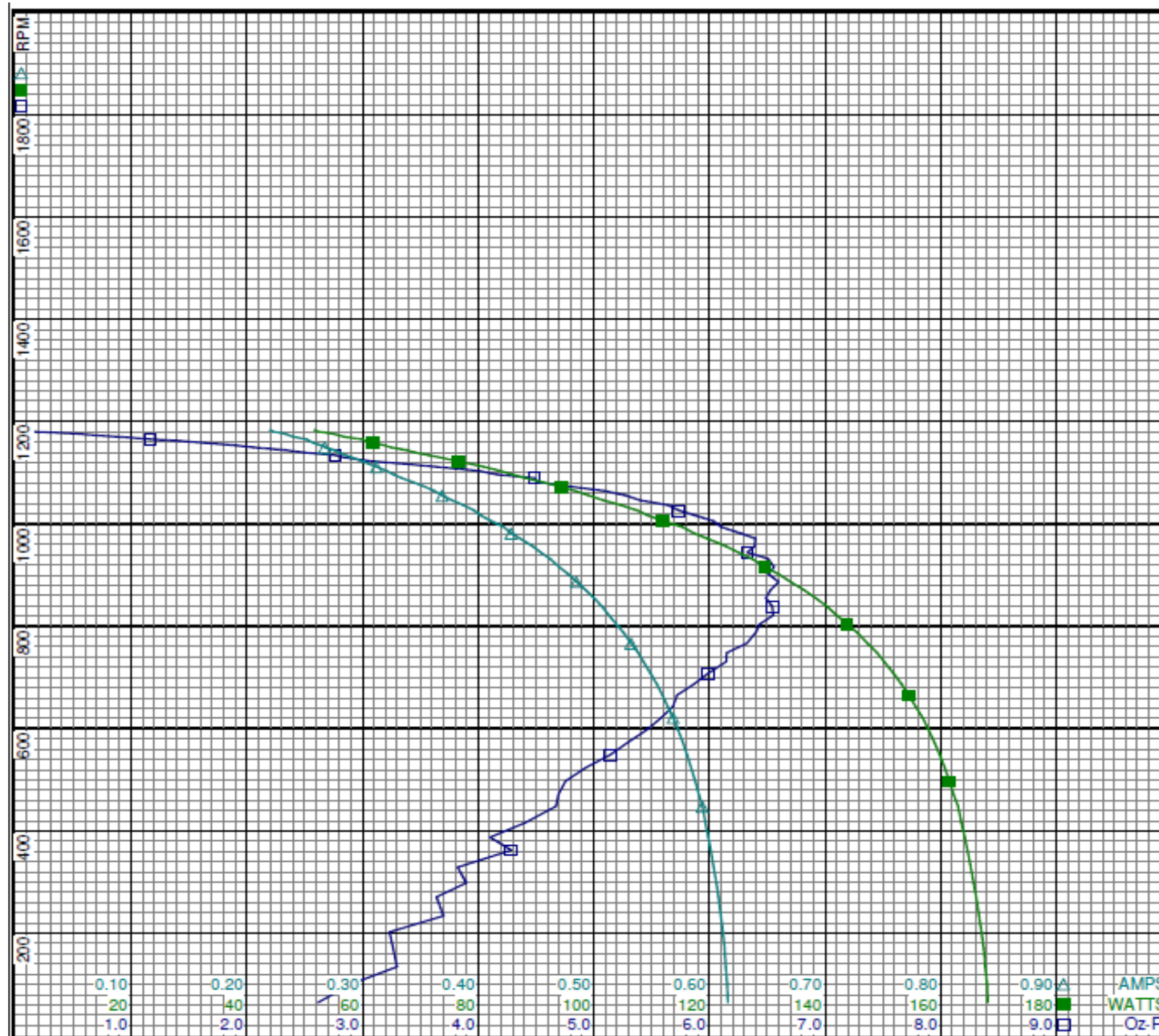
Performance Data



5WJA9BG

REV.

—



Curve Descriptions:

Motor(1) Test 8 Run 277V 60 Hz 6P
M4 CCW

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

Motor Ratings:

(1) K48HXMSD1202 ID: 1

DRAWING NO.

PAGE 16 of 16

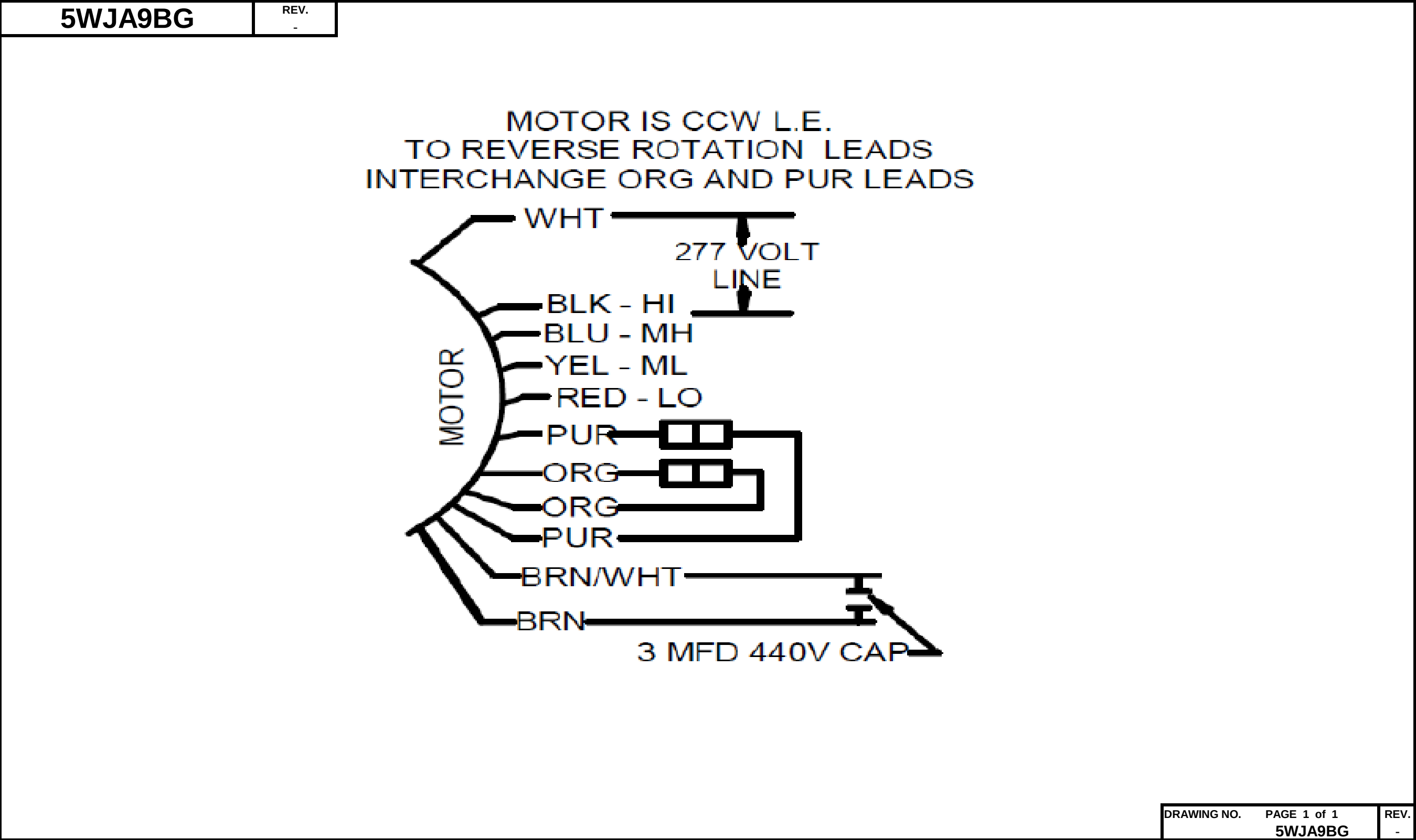
5WJA9BG

REV.

—

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

Wiring Diagram



Dayton®

ROOM AIR CONDITIONER MOTOR

Part No
5WJA9BG



HP: 1/10

VOLTS: 277

AMPS: .707

RPM: 1050/4 SPD

DUTY: CONT

ENCL: OAO

THERMALLY PROTECTED: AUTO

MFG. NO.   PROT. CODE : 7A010 AVG.F.L

MTR REF: K48HXMSD-1202

PH: 1

HZ: 60

FR: 42Y

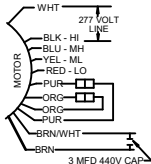
INS CL: B

AMB: 60°C

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



MOTOR IS CCW I.E.
TO REVERSE ROTATION LEADS
INTERCHANGE ORG AND PUR LEADS



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

Made in Mexico