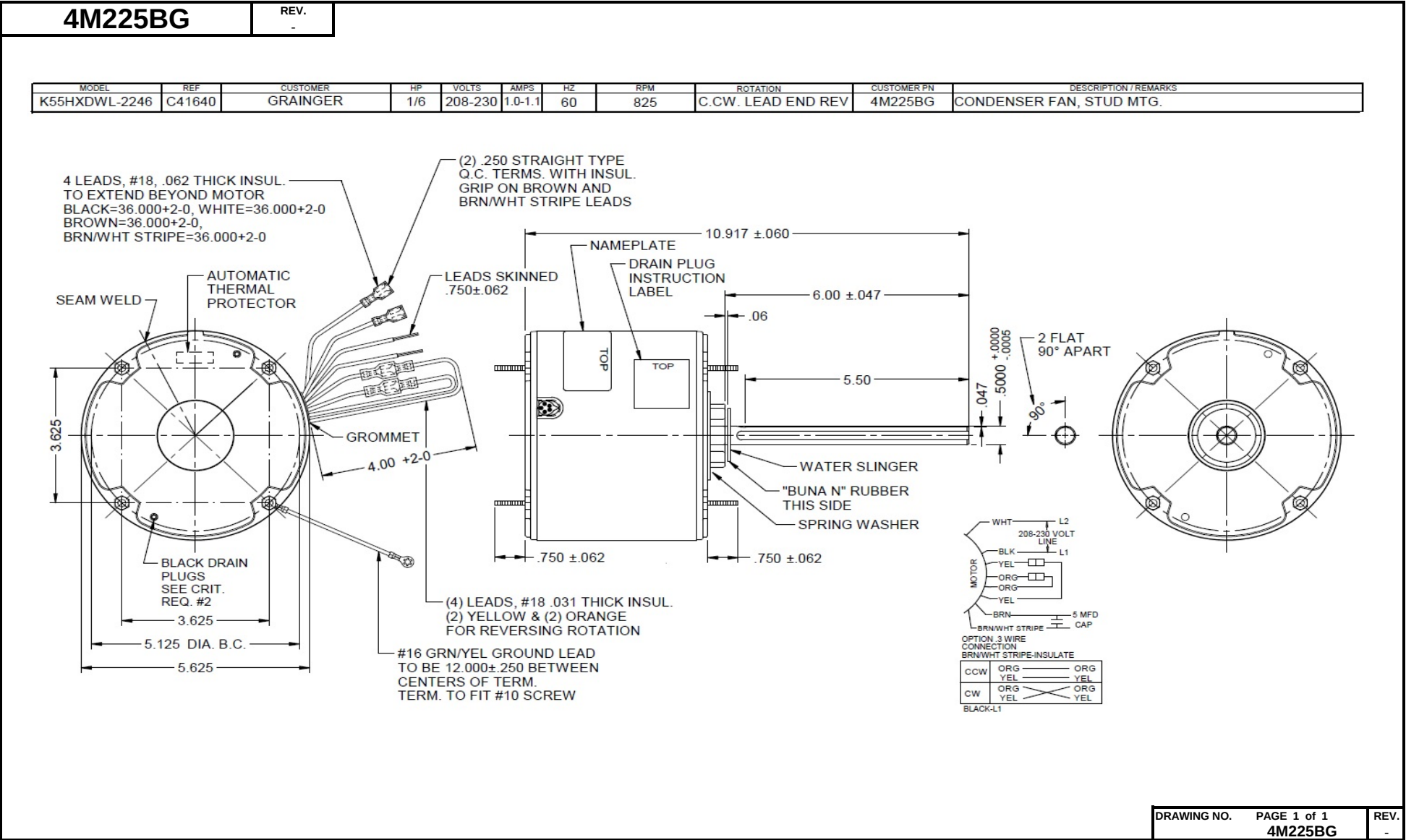


Dimensional Drawing



4M225BG

REV.

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SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/6							
Poles:	8							
Ambient (°C):	60							
Altitude (FASL):								
No. of Speeds:	1							
HIGH SPEED								
Volts:	208-230	208	230					
HZ:	60	60	60					
Service Factor:	1							
Efficiency:	@ Rated Load	59.2	59.2					
Power Factor:	@ Rated Load	96.7	96.7					
Amps:	@ No Load							
	@ Rated Load	1	0.97					
	@ Locked Rotor	1.9	2.2					
RPM:	@ Rated Load	826	849					
Torques:	Breakdown	19.9	24.6					
	Locked Rotor	4.1	5.7					
	Pull-Up	3.8	4.5					
	Rated Load	16.96	16.96					
	Service Factor	16.96	16.96					
Watts:	Rated Load	210	216.6					
Temperature Rise:	@ Rated Load	TEAO	TEAO					
Thermal Protector:	Trip Temp (°C)	-	-					
Winding Material:	Start (Auxiliary)	Cu	Cu					
	Run (Main)	Cu	Cu					
Capacitor(s):	Run (MFD / Volts)	5mFd, 370V						
	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
 4M225BG

 REV.
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Performance Data



4M225BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K055DWL2246 4M225BG
Motor ID: 1
Poles: 8
Volts: 208-230
Frequency: 60
HP: 0.166
Speed: 825
Phase: 1
Protector: 7AM036-A5

Test Conditions

Test Type: Start Run Cap: 5
Test Number: 3 Start Cap: 0μfd
Poles: 8 Environment: 24.9 Deg C 60 % RH 962 hPa
Volts: 208 Tested: 8/6/2015 12:45:42 PM
Hz: 60 Tested By: Bribiesca, Griselda
Rotation: ccwle Gear Ratio: 1:1
Special Cond: Bearing Friction: -0.32 Oz-Ft
Speed Conn: Windage Torque: -1.20 Oz-Ft
TestBoard: CMD InLine Three Phase Fixture #1

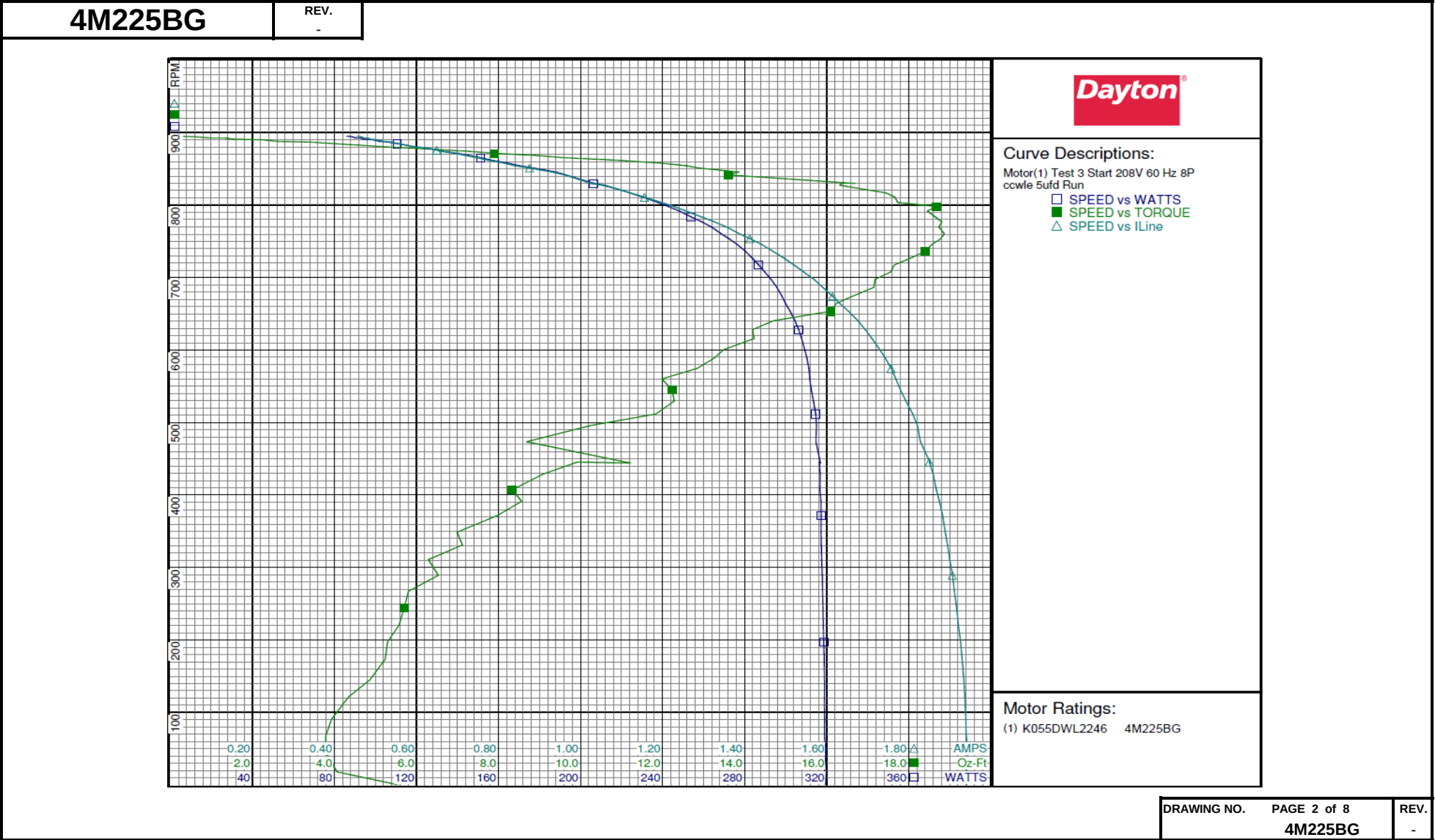
Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	208.0	71.0	255.4	1.940	318.8	18	4.062	0.001	0.2	79.0
	208.0	71.2	254.5	1.945	319.4	46	3.781	0.002	0.5	79.0
	208.0	71.7	252.9	1.939	318.9	90	3.923	0.004	1.0	79.1
	208.0	73.0	250.0	1.930	318.7	173	5.235	0.011	2.5	79.4
	208.0	74.8	247.4	1.916	318.1	244	5.699	0.017	3.9	79.8
	208.0	77.3	244.4	1.900	317.5	311	6.287	0.023	5.5	80.3
	208.0	80.7	242.3	1.882	317.2	371	7.956	0.035	8.3	81.0
	208.0	85.3	240.5	1.859	316.8	428	9.072	0.046	10.9	81.9
	208.0	91.1	239.5	1.828	314.7	473	8.685	0.049	11.6	82.8
	208.0	97.5	238.2	1.793	313.5	529	12.281	0.077	18.4	84.1
	208.0	104.6	237.7	1.757	311.3	574	12.833	0.088	21.0	85.2
	208.0	113.3	238.0	1.710	307.8	616	14.227	0.104	25.3	86.5
	208.0	124.0	240.5	1.653	302.1	653	16.091	0.125	30.9	87.9
	208.0	135.1	243.5	1.590	295.6	686	17.146	0.140	35.3	89.4
	208.0	147.9	248.9	1.520	286.8	717	17.644	0.151	39.2	90.7
	208.0	161.3	255.8	1.441	276.4	745	18.559	0.165	44.5	92.2
	208.0	175.6	264.8	1.356	263.8	770	18.734	0.172	48.5	93.5
	208.0	191.3	276.3	1.257	248.0	792	18.448	0.174	52.3	94.9
	208.0	206.4	289.3	1.156	230.4	811	17.662	0.170	55.2	95.8
	208.0	221.2	303.1	1.053	211.6	827	16.317	0.161	56.7	96.6
	208.0	233.5	316.6	0.961	192.8	841	13.603	0.136	52.7	96.5
	208.0	247.9	332.5	0.839	170.1	854	12.578	0.128	56.1	97.4
	208.0	258.6	344.6	0.748	151.3	865	9.606	0.099	48.8	97.2
	208.0	268.0	357.1	0.659	132.8	874	7.269	0.076	42.5	96.9
	208.0	273.8	365.4	0.597	119.6	880	5.275	0.055	34.5	96.2
	208.0	278.9	373.0	0.538	105.8	887	3.385	0.036	25.2	94.6
	208.0	284.8	381.2	0.486	93.9	891	1.519	0.016	12.8	92.9
	208.0	285.7	383.2	0.465	88.5	894	0.603	0.006	5.4	91.6
	208.0	287.5	385.6	0.455	85.9	895	0.069	0.001	0.6	90.9

DRAWING NO. PAGE 1 of 8
4M225BG

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

Performance Data



Performance Data



4M225BG

REV.
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Dayton Manufacturing Company

Motor Description

Model: K055DWL2246 4M225BG
Motor ID: 1
Poles: 8
Volts: 208-230
Frequency: 60
HP: 0.166
Speed: 825
Phase: 1
Protector: 7AM036-A5

Test Conditions

Test Type: Run
Test Number: 7
Poles: 8
Volts: 208
Hz: 60
Rotation: ccwle
Special Cond:
Speed Conn:
TestBoard: CMD InLine Three Phase Fixture #1
Run Cap: 5
Start Cap: 0µfd
Environment: 24.9 Deg C 60 % RH 962 hPa
Tested: 8/6/2015 12:46:43 PM
Tested By: Bribiesca, Griselda
Gear Ratio: 1:1
Bearing Friction: -0.40 Oz-Ft
Windage Torque: -1.03 Oz-Ft

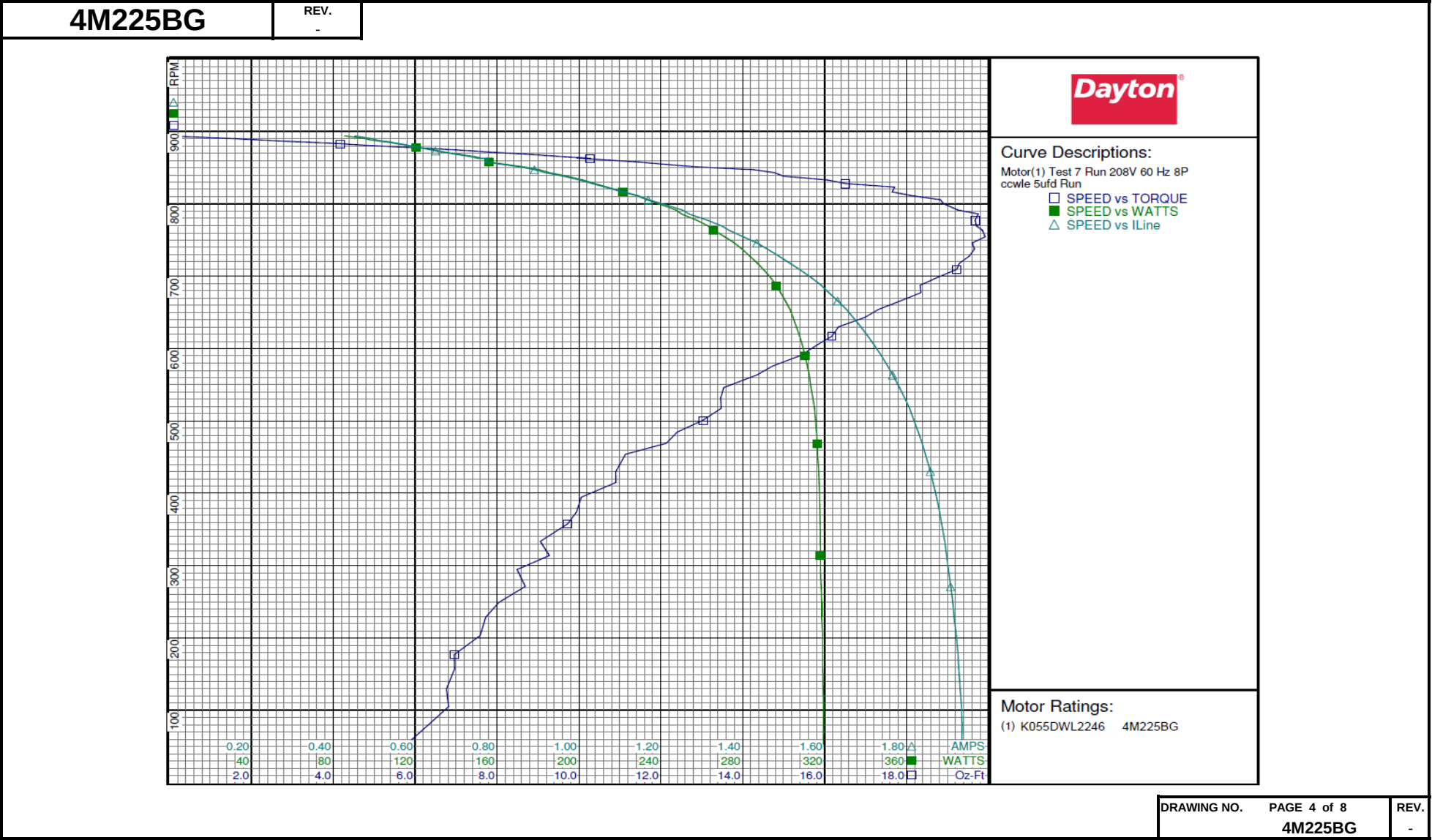
Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	208.0	287.8	385.5	0.453	85.7	894	0.000	0.000	0.0	90.9
	208.0	285.0	381.6	0.480	92.2	891	1.081	0.011	9.3	92.3
	208.0	281.8	376.2	0.523	102.9	886	2.839	0.030	21.7	94.6
	208.0	276.5	368.8	0.576	114.8	881	4.550	0.048	31.0	95.8
	208.0	269.0	358.5	0.650	130.9	873	7.330	0.076	43.4	96.9
	208.0	259.6	345.9	0.739	149.4	865	9.670	0.100	49.7	97.2
	208.0	256.7	342.8	0.770	156.2	857	11.452	0.117	55.8	97.5
	208.0	238.9	321.8	0.917	185.6	843	14.771	0.148	59.6	97.3
0.16 HP	208.0	227.1	309.1	1.007	203.1	832	16.158	0.160	58.8	96.9
	208.0	223.5	305.6	1.032	207.8	828	16.515	0.163	58.4	96.8
16.96 OZ-FT	208.0	221.9	304.1	1.044	210.0	826	16.960	0.167	59.2	96.7
	208.0	208.3	290.7	1.143	228.3	811	18.121	0.175	57.2	96.0
	208.0	192.4	276.8	1.252	247.3	791	19.251	0.181	54.7	95.0
	208.0	177.2	265.3	1.347	262.9	769	19.705	0.181	51.2	93.8
BDT OZ-FT	208.0	168.5	259.5	1.401	271.2	754	19.918	0.179	49.2	93.0
	208.0	162.9	256.1	1.435	275.9	746	19.600	0.174	47.0	92.5
	208.0	148.9	248.5	1.515	287.1	718	19.286	0.165	42.8	91.1
	208.0	135.6	242.8	1.591	296.3	687	18.330	0.150	37.8	89.5
	208.0	124.2	239.6	1.653	303.1	654	17.311	0.135	33.2	88.1
	208.0	114.2	237.9	1.706	307.7	617	16.174	0.119	28.8	86.7
	208.0	105.2	237.4	1.754	311.5	576	14.724	0.101	24.2	85.4
	208.0	97.5	237.6	1.795	314.2	532	13.458	0.085	20.2	84.2
	208.0	91.2	238.7	1.829	316.0	484	12.396	0.071	16.9	83.1
	208.0	85.6	240.3	1.858	317.1	430	10.896	0.056	13.1	82.0
	208.0	81.1	242.1	1.881	317.6	374	9.933	0.044	10.4	81.2
	208.0	77.5	244.2	1.898	317.9	314	9.275	0.035	8.1	80.5
	208.0	75.1	247.0	1.913	318.5	249	8.040	0.024	5.6	80.1
	208.0	73.2	249.8	1.925	319.0	177	6.953	0.015	3.4	79.6
	208.0	72.0	252.2	1.934	319.4	105	6.812	0.009	2.0	79.4

DRAWING NO. PAGE 3 of 8
4M225BG

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

Performance Data



Performance Data



4M225BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K055DWL2246 4M225BG
Motor ID: 1
Poles: 8
Volts: 208-230
Frequency: 60
HP: 0.166
Speed: 825
Phase: 1
Protector: 7AM036-A5

Test Conditions

Test Type: Start
Test Number: 4
Poles: 8
Volts: 230
Hz: 60
Rotation: ccwle
Special Cond:
Speed Conn:
TestBoard: CMD InLine Three Phase Fixture #1
Run Cap: 5
Start Cap: 0µfd
Environment: 24.9 Deg C 62 % RH 963 hPa
Tested: 8/6/2015 12:42:07 PM
Tested By: Bribiesca, Griselda
Gear Ratio: 1:1
Bearing Friction: -0.53 Oz-Ft
Windage Torque: -1.43 Oz-Ft

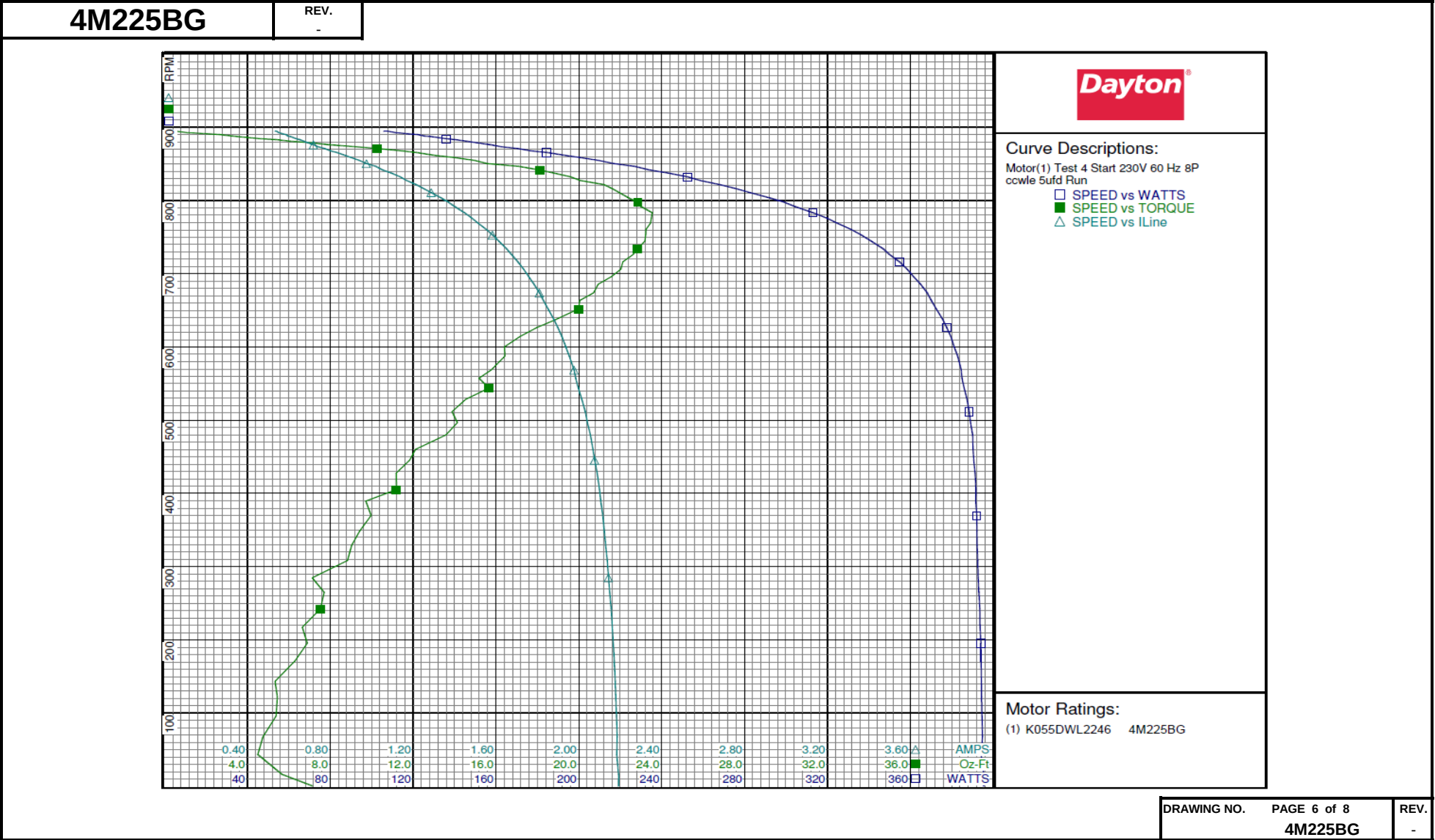
Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	77.5	281.8	2.191	395.4	16	5.66	0.001	0.2	78.5
PUT OZ-FT	230.0	78.0	281.2	2.183	394.2	43	4.50	0.002	0.4	78.5
	230.0	78.5	279.2	2.181	394.5	96	5.38	0.006	1.2	78.6
	230.0	80.0	276.2	2.170	394.1	171	6.30	0.013	2.4	79.0
	230.0	81.8	273.2	2.156	393.5	242	7.52	0.022	4.1	79.4
	230.0	84.5	270.6	2.136	392.5	308	8.83	0.032	6.2	79.9
	230.0	88.5	267.9	2.115	392.0	370	9.96	0.044	8.3	80.6
	230.0	93.6	266.0	2.087	391.2	428	11.18	0.057	10.9	81.5
	230.0	99.1	264.5	2.055	390.0	480	13.58	0.078	14.8	82.5
	230.0	106.3	263.3	2.014	387.3	528	14.53	0.091	17.6	83.6
	230.0	113.3	262.9	1.976	384.6	568	15.76	0.107	20.7	84.6
	230.0	124.1	263.5	1.918	379.5	614	17.15	0.125	24.6	86.0
	230.0	135.5	265.9	1.851	372.5	652	19.98	0.155	31.0	87.5
	230.0	147.7	269.0	1.783	364.9	686	20.93	0.171	34.9	89.0
	230.0	161.1	274.2	1.705	354.7	716	22.12	0.189	39.7	90.4
	230.0	176.5	282.2	1.613	341.0	744	23.18	0.205	44.9	91.9
	230.0	192.8	292.5	1.513	324.7	769	23.45	0.215	49.3	93.3
	230.0	210.2	305.6	1.401	304.3	792	23.00	0.217	53.1	94.5
	230.0	226.5	319.6	1.287	282.6	811	21.95	0.212	55.9	95.5
	230.0	242.9	335.2	1.168	258.5	827	20.06	0.198	57.0	96.3
	230.0	257.6	350.8	1.052	234.1	842	18.10	0.181	57.8	96.7
	230.0	271.2	365.7	0.940	209.4	855	14.95	0.152	54.2	96.9
	230.0	282.7	379.9	0.831	184.4	865	12.13	0.125	50.6	96.5
	230.0	291.2	391.6	0.740	162.4	873	9.21	0.096	44.0	95.4
	230.0	296.7	399.4	0.673	145.8	881	6.07	0.064	32.6	94.2
	230.0	302.6	408.6	0.607	128.4	887	3.50	0.037	21.5	91.9
	230.0	306.0	414.2	0.572	118.0	891	2.17	0.023	14.5	89.8
	230.0	308.4	418.9	0.540	107.4	895	0.48	0.005	3.6	86.6
	230.0	310.0	420.6	0.532	105.7	895	0.14	0.002	1.1	86.3

DRAWING NO. PAGE 5 of 8
4M225BG

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

Performance Data



Performance Data



4M225BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model: K055DWL2246 4M225BG
Motor ID: 1
Poles: 8
Volts: 208-230
Frequency: 60
HP: 0.166
Speed: 825
Phase: 1
Protector: 7AM036-A5

Test Conditions

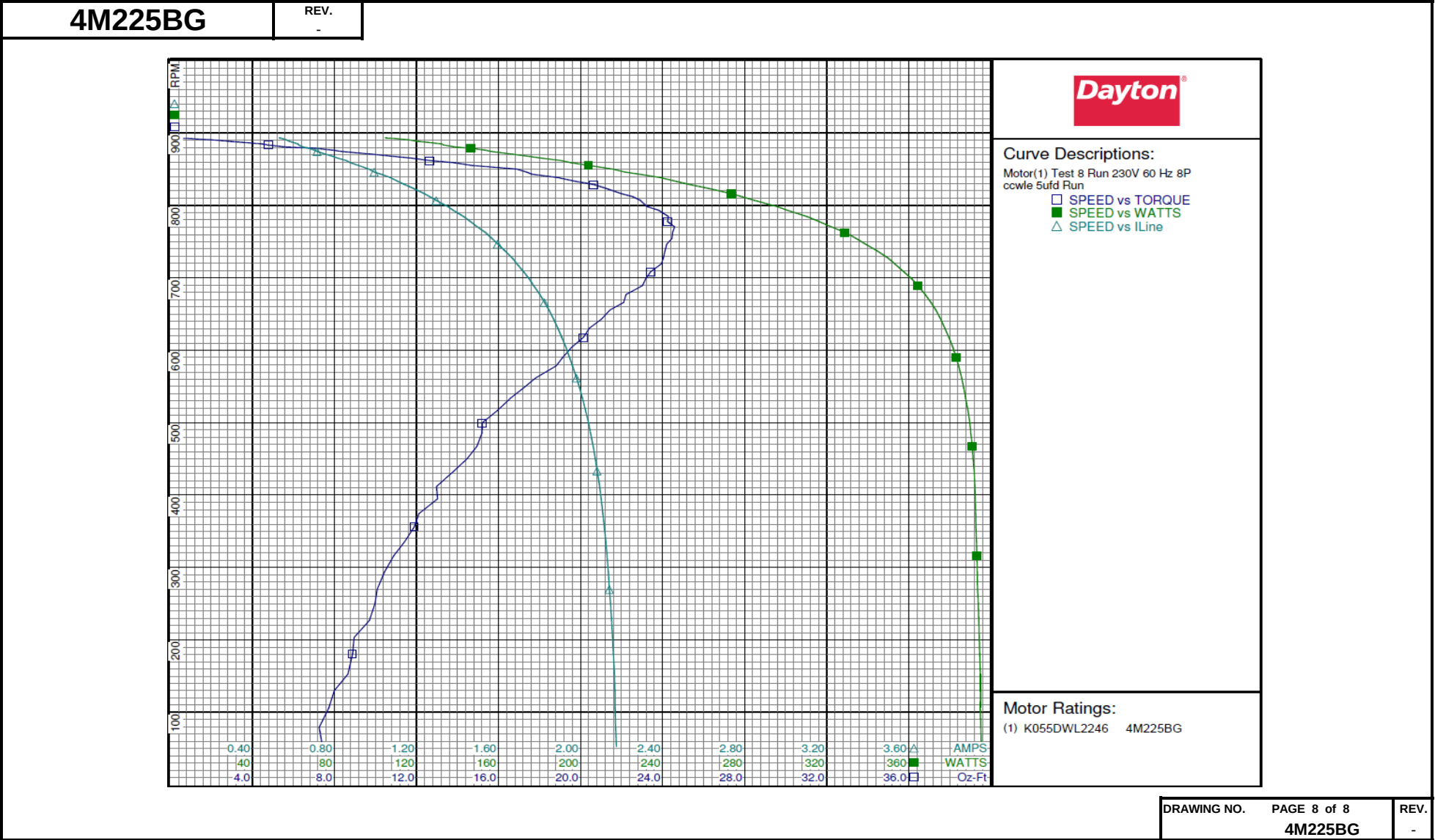
Test Type: Run
Test Number: 8
Poles: 8
Volts: 230
Hz: 60
Rotation: ccwle
Special Cond:
Speed Conn:
TestBoard: CMD InLine Three Phase Fixture #1
Run Cap: 5
Start Cap: 0µfd
Environment: 24.9 Deg C 60 % RH 962 hPa
Tested: 8/6/2015 12:43:20 PM
Tested By: Bribiesca, Griselda
Gear Ratio: 1:1
Bearing Friction: -0.31 Oz-Ft
Windage Torque: -1.19 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	310.2	420.9	0.531	104.7	893	0.00	0.000	0.0	85.8
	230.0	308.0	416.8	0.558	113.9	891	1.63	0.017	11.3	88.8
	230.0	304.7	411.4	0.597	125.4	887	3.50	0.037	22.0	91.4
	230.0	300.3	404.7	0.647	139.3	880	5.67	0.059	31.8	93.6
	230.0	293.4	394.7	0.715	156.4	874	8.34	0.087	41.4	95.1
	230.0	285.0	382.6	0.812	180.2	865	11.68	0.120	49.8	96.5
	230.0	273.6	369.0	0.916	203.9	855	14.67	0.149	54.7	96.8
0.16 HP	230.0	270.8	365.6	0.941	209.7	853	15.77	0.160	56.9	96.9
16.96 OZ-FT	230.0	267.5	361.6	0.971	216.6	849	16.96	0.171	59.1	97.0
	230.0	260.8	353.9	1.028	228.8	843	17.63	0.177	57.7	96.8
	230.0	246.2	338.7	1.140	252.9	829	20.62	0.203	60.0	96.5
	230.0	229.6	322.2	1.264	278.5	812	22.53	0.218	58.3	95.8
	230.0	213.4	307.9	1.377	300.6	793	23.79	0.225	55.8	94.9
BDT OZ-FT	230.0	195.3	294.0	1.496	322.2	770	24.58	0.225	52.2	93.6
	230.0	195.3	294.0	1.496	322.2	770	24.58	0.225	52.2	93.6
	230.0	179.7	283.7	1.596	338.8	746	24.20	0.215	47.3	92.3
	230.0	164.0	275.0	1.689	353.1	719	23.93	0.205	43.3	90.9
	230.0	149.9	269.1	1.771	364.4	689	23.01	0.189	38.6	89.5
	230.0	136.8	265.1	1.845	373.1	655	21.43	0.167	33.4	87.9
	230.0	125.6	263.3	1.908	379.5	618	20.13	0.148	29.1	86.5
	230.0	116.1	262.6	1.960	384.3	578	18.81	0.129	25.1	85.2
	230.0	107.4	263.0	2.008	387.7	534	16.59	0.105	20.3	83.9
	230.0	100.2	264.0	2.048	390.2	486	15.19	0.088	16.8	82.8
	230.0	94.4	265.7	2.080	391.8	433	13.83	0.071	13.6	81.9
	230.0	89.1	267.7	2.108	392.6	374	12.12	0.054	10.3	81.0
	230.0	85.2	270.0	2.128	393.1	316	10.89	0.041	7.8	80.3
	230.0	82.4	272.9	2.145	393.8	250	9.98	0.030	5.6	79.8
	230.0	80.5	275.8	2.159	394.5	181	8.88	0.019	3.6	79.4
	230.0	79.1	278.9	2.168	394.8	106	7.72	0.010	1.8	79.2

DRAWING NO. PAGE 7 of 8
4M225BG REV.
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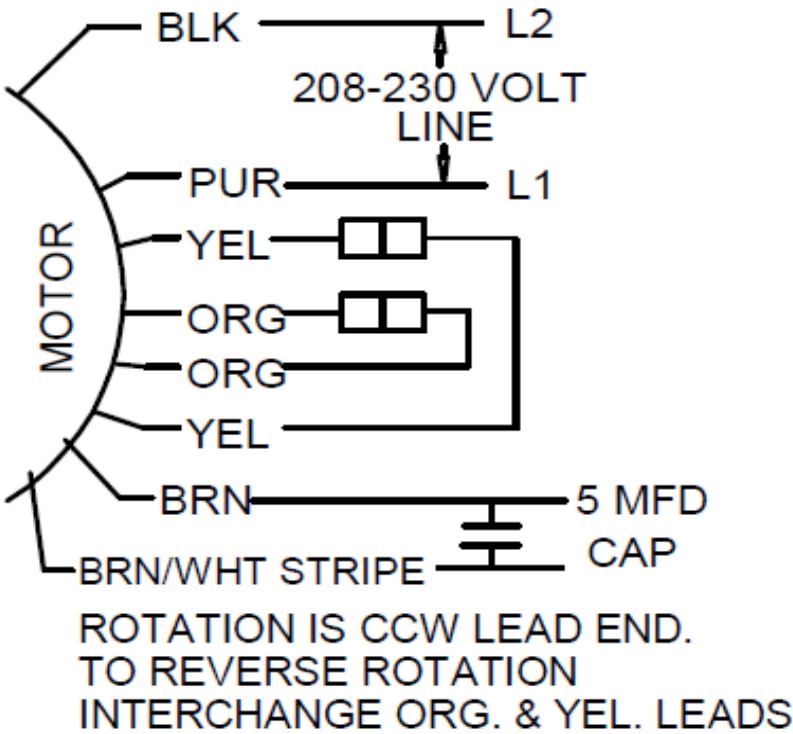
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



4M225BG

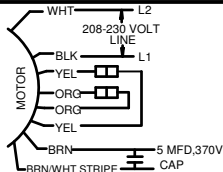
REV.
0



OPTION .3 WIRE
CONNECTION
BRN/WHT STRIPE-INSULATE

CCW	ORG —	ORG
	YEL —	YEL
CW	ORG —	ORG
	YEL —	YEL

PURPLE-L1

Dayton[®]**CONDENSER FAN MOTOR****HP:** 1/6**VOLTS:** 208-230**AMPS:** 1.0-1.1**RPM:** 825**DUTY:** CONT**SF:** 1.0**KVA CODE:****ENCL:** TEAO**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 7A010 **MTR REF:** K55HDXDWL-2246**PH:** 1**HZ:** 60**FR:** 48YZ**INS CL:** B**AMB:** 60 °C**SFA:** 1.0-1.1AVG. F.L.
EFF.Part
No **4M225BG****[BAR CODE]****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



E37403



258501

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

Made in Mexico