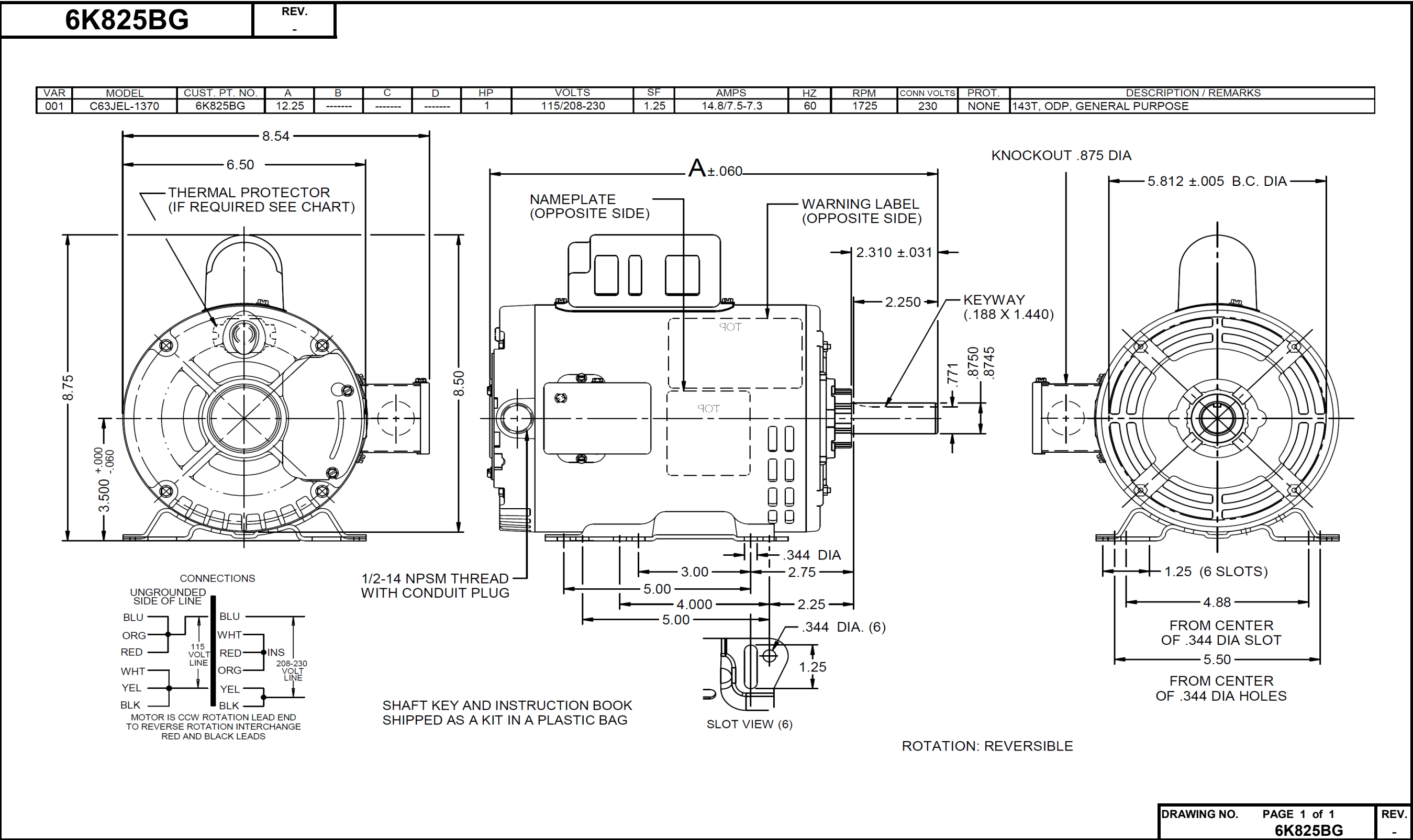


Dimensional Drawing



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

Performance Data



6K825BG

REV.
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MOTOR PERFORMANCE

HP:	1							
Poles:	4							
No. of Speeds:	1							
Volts:	115/208-230	115	208	230				
HZ:	60	60	60	60				
Service Factor:	1.25							
Efficiency:	@ Rated Load	70.3	70.9	71.5				
Power Factor:	@ Rated Load	70.5	75.8	69.7				
Amps:	@ No Load							
	@ Rated Load	13.2	6.7	6.6				
	@ Service Factor	15.2	8	7.6				
	@ Locked Rotor	69.3	32.2	36.4				
RPM:	@ Rated Load	1744	1725	1743				
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	119.4	97.5	121.8				
	Locked Rotor	153.2	115.4	142.1				
	Pull-Up	152.2	115.1	142.1				
	Rated Load	48.7	48.7	48.7				
	Service Factor	60.9	60.9	60.9				
Watts:	Rated Load	1073	1052	1054				
KVA Code:	K	J	H	K				
Temperature Rise:	@ Rated Load	43.8	47.7	46.9				
	@ Service Factor	NP	NP	NP				
Thermal Protector:	Trip Temp (°C)	-	-	-				
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu				
	Run (Main)	Cu	Cu	Cu				
Capacitor(s):	Start (MFD / Volts)	590 mFd, 110V						
	No. of Start Capacitors							
	Run (MFD / Volts)	NA						
	No. of Run Capacitors							

LOW SPEED PERFORMANCE DATA:

HP:								
Poles:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Service Factor							
	@ Locked Rotor							
Torques:	Bead Down							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

DRAWING NO. PAGE 1 of 1
6K825BG

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

Performance Data



6K825BG			REV. -											
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model:		C063JEL1370 6K825BG		Test Type:		Start		Run Cap:		0				
Motor ID:		No. 1 Of 3		Test Number:		1		Start Cap:		590µfd				
Poles:		4		Poles:		4		Environment:						
Volts:		115/208-230		Volts:		115		Tested:		9/21/2005 8:53:19 PM				
Frequency:		60		Hz:		60		Tested By:		Taylor, Melvin				
HP:		1		Rotation:				Gear Ratio:		1:1				
Speed:		1725		Special Cond:		3-Line		Bearing Friction:		-0.21 Oz-Ft				
Phase:		1		Speed Conn:				Windage Torque:		-1.52 Oz-Ft				
Protector:				TestBoard:		Amps Performance		Fixture #3						
Special Points		Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
		115.0	95.1	126.8	69.29	61.73	27.23	7314	14	153.2	0.025	0.3	91.8	569.5
PUT OZ-FT		115.0	95.2	126.7	69.32	61.69	27.24	7311	15	152.2	0.026	0.3	91.7	570.5
		115.0	95.0	126.1	69.17	61.50	27.13	7299	30	153.6	0.056	0.6	91.8	570.9
		115.0	96.7	124.4	69.29	60.93	26.75	7322	160	153.6	0.292	3.0	91.9	570.6
		115.0	98.6	122.1	68.95	59.87	26.20	7300	304	167.1	0.605	6.2	92.1	569.3
		115.0	100.5	120.1	68.51	58.67	25.74	7285	438	172.7	0.902	9.2	92.5	568.6
		115.0	102.3	117.2	67.99	57.48	25.06	7245	560	180.8	1.205	12.4	92.7	567.1
		115.0	105.5	114.7	67.92	56.40	24.48	7258	670	189.3	1.510	15.5	92.9	566.3
		115.0	109.6	113.7	68.09	55.22	24.26	7324	769	200.6	1.837	18.7	93.5	566.2
		115.0	113.5	112.7	67.85	53.74	24.05	7350	863	210.4	2.161	21.9	94.2	566.0
		115.0	117.5	111.8	67.51	52.16	23.86	7357	949	218.1	2.466	25.0	94.8	565.9
		115.0	121.6	111.1	67.11	50.53	23.71	7363	1028	225.3	2.758	27.9	95.4	566.2
		115.0	126.0	110.7	66.66	48.90	23.62	7354	1101	231.1	3.028	30.7	95.9	566.0
		115.0	130.5	110.5	66.14	47.23	23.61	7336	1168	234.5	3.260	33.2	96.4	566.6
		115.0	135.6	111.1	65.68	45.56	23.71	7324	1229	236.1	3.455	35.2	97.0	566.2
		115.0	140.4	111.5	65.10	43.90	23.86	7296	1285	236.6	3.620	37.0	97.4	567.6
		115.0	145.4	112.5	64.55	42.27	24.08	7260	1337	234.7	3.735	38.4	97.8	567.9
		115.0	150.7	113.8	64.00	40.71	24.43	7229	1384	231.2	3.810	39.3	98.2	569.3
		115.0	156.1	115.8	63.48	39.20	24.89	7191	1428	226.3	3.846	39.9	98.5	570.4
		115.0	161.3	118.1	63.00	37.79	25.45	7152	1467	219.5	3.833	40.0	98.7	571.8
		115.0	166.9	120.9	62.52	36.43	26.15	7122	1503	211.0	3.776	39.6	99.1	573.9
		115.0	172.2	124.2	61.95	35.06	26.95	7074	1537	200.8	3.675	38.8	99.3	575.8
		115.0	177.3	127.7	61.38	33.71	27.86	7022	1567	188.8	3.521	37.4	99.5	578.9
		115.0	182.5	131.4	60.75	32.39	28.85	6971	1595	174.8	3.318	35.5	99.8	582.5
		115.0	187.1	135.2	60.09	31.09	29.87	6898	1620	159.5	3.077	33.3	99.8	586.1
		115.0	191.7	139.0	59.32	29.77	30.94	6831	1643	143.7	2.810	30.7	100.1	590.6
		115.0	195.9	143.0	58.45	28.42	32.06	6733	1666	124.7	2.473	27.4	100.2	594.8
		115.0	199.4	146.6	57.68	27.25	33.09	6632	1685	107.0	2.147	24.1	100.0	598.5
		115.0	203.3	150.4	56.73	26.05	34.21	6529	1705	85.7	1.739	19.9	100.1	603.3
		115.0	207.0	154.0	55.65	24.76	35.34	6410	1723	63.8	1.310	15.2	100.2	608.5
		115.0	210.6	157.9	54.49	23.51	36.49	6270	1743	40.4	0.838	10.0	100.1	613.1
		115.0	213.7	161.4	53.22	22.31	37.61	6123	1760	14.8	0.310	3.8	100.0	618.3
		115.0	215.3	163.0	52.37	21.63	38.22	6027	1771	0.0	0.000	0.0	100.1	622.1

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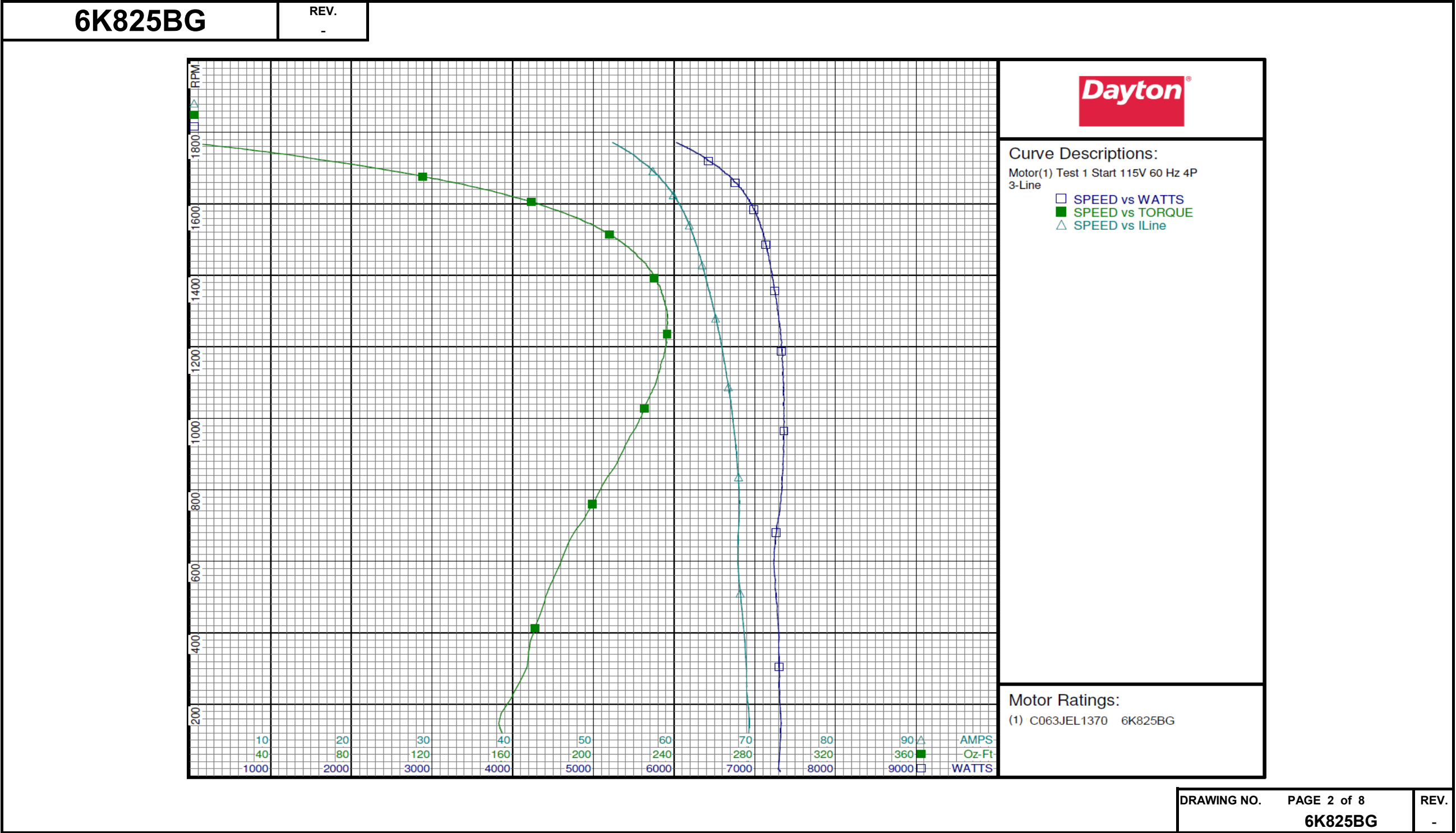
6K825BG

REV.
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6K825BG		-

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

Performance Data



Performance Data



6K825BG

REV.
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Dayton Manufacturing Company

Motor Description			Test Conditions					
Model:	C063JEL1370	6K825BG	Test Type:	Run	Run Cap:	0		
Motor ID:	No. 1 Of 3		Test Number:	2	Start Cap:	590 µfd		
Poles:	4		Poles:	4	Environment:			
Volts:	115/208-230		Volts:	115	Tested:	9/21/2005 8:47:24 PM		
Frequency:	60		Hz:	60	Tested By:	Taylor, Melvin		
HP:	1		Rotation:		Gear Ratio:	1:1		
Speed:	1725		Special Cond:		Bearing Friction:	-0.27 Oz-Ft		
Phase:	1		Speed Conn:		Windage Torque:	-1.56 Oz-Ft		
Protector:			TestBoard:	Amps Performance	Fixture #3			
Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	9.36	189	1797	0.00	0.000	0.0	17.6
12.17 OZ-FT	115.0	9.63	401	1786	12.17	0.259	48.1	36.2
	115.0	10.01	516	1779	18.64	0.395	57.0	44.9
24.35 OZ-FT	115.0	10.44	613	1773	24.35	0.514	62.5	51.1
	115.0	11.48	806	1761	34.94	0.732	67.8	61.1
36.52 OZ-FT	115.0	11.65	837	1759	36.52	0.765	68.1	62.5
1 HP	115.0	13.16	1061	1745	48.13	1.000	70.3	70.1
48.7 OZ-FT	115.0	13.24	1073	1744	48.70	1.011	70.3	70.5
	115.0	13.39	1093	1743	49.88	1.035	70.6	71.0
56 OZ-FT	115.0	14.29	1218	1736	56.00	1.157	70.9	74.1
60.87 OZ-FT	115.0	15.18	1328	1728	60.87	1.252	70.3	76.1
1725 RPM	115.0	15.49	1366	1725	62.47	1.283	70.1	76.6
	115.0	15.81	1405	1722	64.18	1.316	69.9	77.3
	115.0	18.46	1717	1699	77.73	1.572	68.3	80.8
	115.0	21.25	2019	1675	88.90	1.773	65.5	82.6
	115.0	23.98	2305	1650	97.74	1.920	62.1	83.6
	115.0	26.68	2577	1623	105.74	2.044	59.2	84.0
	115.0	29.52	2850	1593	111.82	2.120	55.5	84.0
	115.0	32.30	3104	1561	116.05	2.156	51.8	83.6
	115.0	34.99	3341	1525	118.57	2.153	48.1	83.0
BDT OZ-FT	115.0	37.38	3541	1492	119.39	2.120	44.7	82.4
	115.0	37.63	3560	1488	119.27	2.112	44.3	82.3
	115.0	40.21	3765	1447	118.15	2.035	40.3	81.4
	115.0	42.64	3947	1402	115.60	1.930	36.5	80.5
	115.0	44.99	4113	1353	111.59	1.798	32.6	79.5
	115.0	47.22	4259	1301	106.29	1.646	28.8	78.4
	115.0	49.21	4395	1244	99.84	1.479	25.1	77.7
	115.0	51.18	4502	1183	92.62	1.305	21.6	76.5
	115.0	52.97	4603	1117	84.22	1.120	18.1	75.6
	115.0	54.63	4679	1046	74.86	0.932	14.9	74.5
	115.0	56.17	4751	969	64.21	0.741	11.6	73.5
	115.0	57.53	4799	886	52.73	0.556	8.6	72.5
	115.0	58.73	4833	798	40.15	0.382	5.9	71.6
	115.0	59.75	4842	703	27.86	0.233	3.6	70.5
	115.0	60.17	4816	603	25.19	0.181	2.8	69.6
	115.0	60.23	4837	500	30.99	0.184	2.8	69.8
	115.0	60.70	4891	386	25.67	0.118	1.8	70.1
	115.0	61.21	4914	261	15.25	0.047	0.7	69.8
	115.0	61.51	4925	129	3.16	0.005	0.1	69.6
PUT OZ-FT	115.0	9.38	246	1795	2.82	0.060	18.1	22.8

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REV.

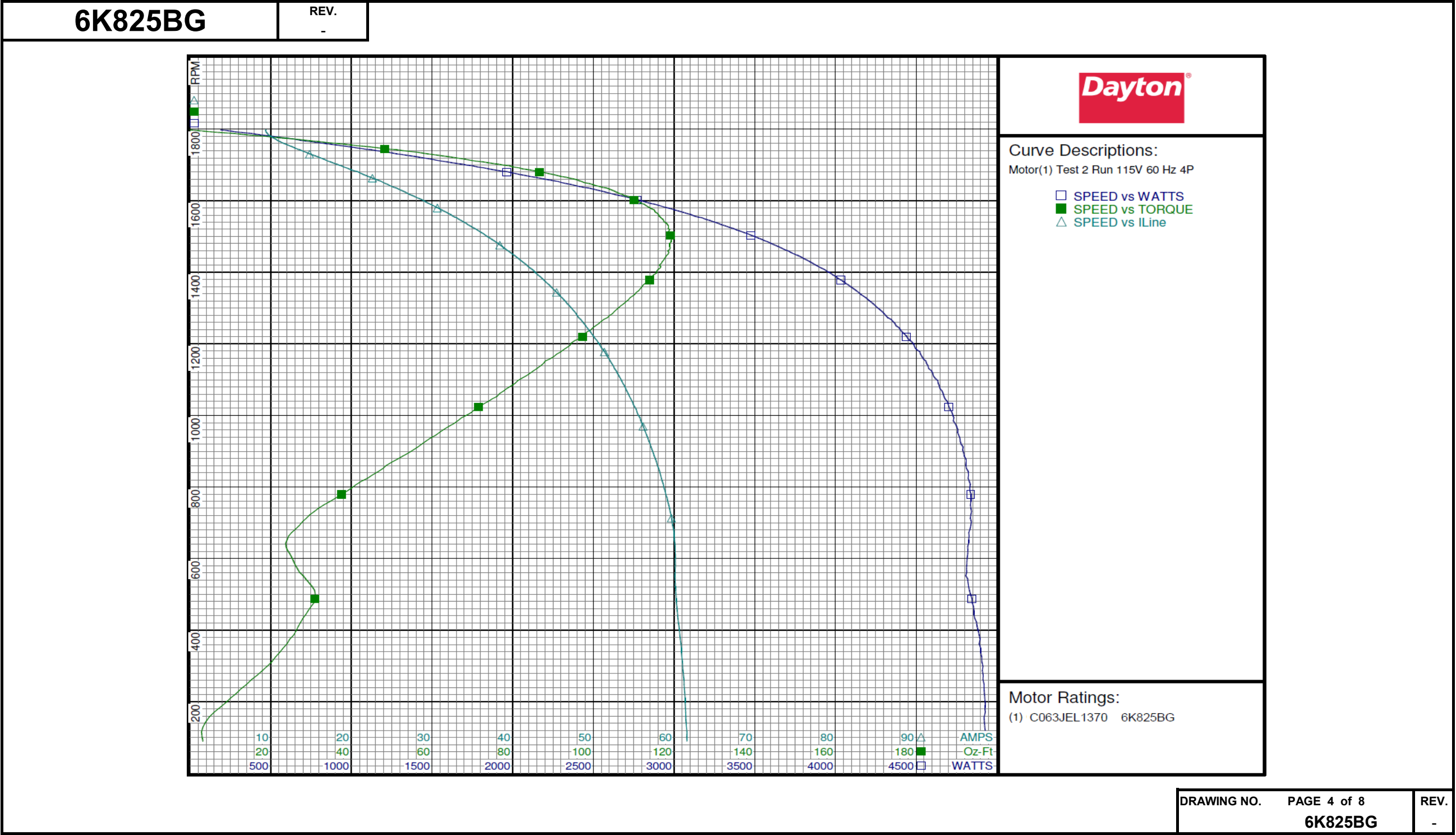
6K825BG

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	6K825BG	-

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

Performance Data



Performance Data



6K825BG		REV. -												
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model:		C063JEL1370 6K825BG		Test Type:		Start		Run Cap:		0				
Motor ID:		No. 1 Of 3		Test Number:		9		Start Cap:		590 µfd				
Poles:		4		Poles:		4		Environment:						
Volts:		115/208-230		Volts:		230		Tested:		9/21/2005 9:52:58 PM				
Frequency:		60		Hz:		60		Tested By:		Taylor, Melvin				
HP:		1		Rotation:				Gear Ratio:		1:1				
Speed:		1725		Special Cond:		3-Line		Bearing Friction:		-0.22 Oz-Ft				
Phase:		1		Speed Conn:				Windage Torque:		-1.54 Oz-Ft				
Protector:				TestBoard:		Amps Performance		Fixture #3						
Special Points		Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
PUT OZ-FT		230.0	86.8	115.9	36.42	32.41	24.89	7392	15	142.1	0.025	0.3	88.2	569.7
		230.0	86.8	115.9	36.42	32.41	24.89	7392	15	142.1	0.025	0.3	88.2	569.7
		230.0	87.0	115.4	36.39	32.26	24.81	7380	31	143.7	0.054	0.5	88.2	570.2
		230.0	88.4	113.5	36.24	31.55	24.37	7366	160	143.1	0.273	2.8	88.4	569.3
		230.0	90.7	111.4	36.05	30.50	23.89	7350	305	157.1	0.570	5.8	88.6	568.7
		230.0	92.6	109.6	35.79	29.47	23.44	7324	438	163.4	0.853	8.7	89.0	567.4
		230.0	94.8	106.9	35.49	28.42	22.85	7285	560	171.3	1.142	11.7	89.3	567.0
		230.0	98.4	104.8	35.43	27.28	22.34	7297	671	178.3	1.423	14.6	89.5	565.6
		230.0	102.7	104.0	35.45	25.85	22.16	7351	769	189.2	1.733	17.6	90.2	565.4
		230.0	106.7	103.3	35.26	24.33	22.04	7379	864	199.0	2.046	20.7	91.0	565.8
		230.0	110.9	102.9	35.00	22.77	21.93	7387	950	207.1	2.343	23.7	91.8	565.4
		230.0	115.1	102.6	34.70	21.18	21.85	7381	1029	214.3	2.626	26.5	92.5	565.0
		230.0	119.4	102.3	34.37	19.55	21.83	7364	1101	220.3	2.889	29.3	93.2	566.1
		230.0	123.9	102.2	33.97	17.90	21.84	7340	1168	223.9	3.114	31.7	93.9	566.7
		230.0	128.8	102.7	33.59	16.25	21.91	7300	1231	225.3	3.301	33.7	94.5	566.0
		230.0	133.5	103.1	33.20	14.60	22.07	7262	1286	226.6	3.470	35.6	95.1	567.9
		230.0	138.6	104.4	32.83	12.96	22.35	7225	1338	225.0	3.583	37.0	95.7	567.6
		230.0	143.7	106.0	32.47	11.36	22.72	7174	1385	222.2	3.664	38.1	96.1	568.5
		230.0	149.3	107.8	32.09	9.79	23.23	7156	1428	218.0	3.706	38.6	96.9	571.6
		230.0	154.2	110.5	31.71	8.33	23.78	7085	1469	211.6	3.699	38.9	97.2	570.9
		230.0	159.1	113.1	31.31	7.03	24.45	7025	1504	204.3	3.658	38.8	97.5	573.2
		230.0	164.2	116.3	30.91	5.97	25.23	6963	1538	194.5	3.560	38.1	97.9	575.8
		230.0	169.0	119.6	30.50	5.33	26.06	6901	1567	183.5	3.423	37.0	98.4	578.1
		230.0	173.6	123.2	30.02	5.15	26.97	6818	1595	170.6	3.241	35.5	98.7	580.6
		230.0	178.0	126.9	29.59	5.52	27.91	6734	1620	156.9	3.026	33.5	99.0	583.7
		230.0	182.5	130.4	29.12	6.32	28.85	6648	1644	141.5	2.770	31.1	99.3	586.8
		230.0	186.3	134.2	28.58	7.33	29.86	6541	1667	124.3	2.466	28.1	99.5	590.4
		230.0	190.0	137.7	28.06	8.47	30.84	6429	1686	106.6	2.140	24.8	99.6	594.2
		230.0	193.5	141.2	27.46	9.70	31.83	6304	1706	87.6	1.779	21.1	99.8	597.8
		230.0	196.7	144.8	26.86	11.06	32.83	6163	1725	67.1	1.377	16.7	99.8	601.5
		230.0	200.0	148.4	26.15	12.50	33.89	6008	1743	44.3	0.919	11.4	99.9	605.7
		230.0	203.2	151.8	25.45	13.92	34.91	5857	1761	21.5	0.451	5.7	100.1	610.1
		230.0	205.6	154.6	24.73	15.25	35.81	5687	1777	0.0	0.000	0.0	100.0	614.3

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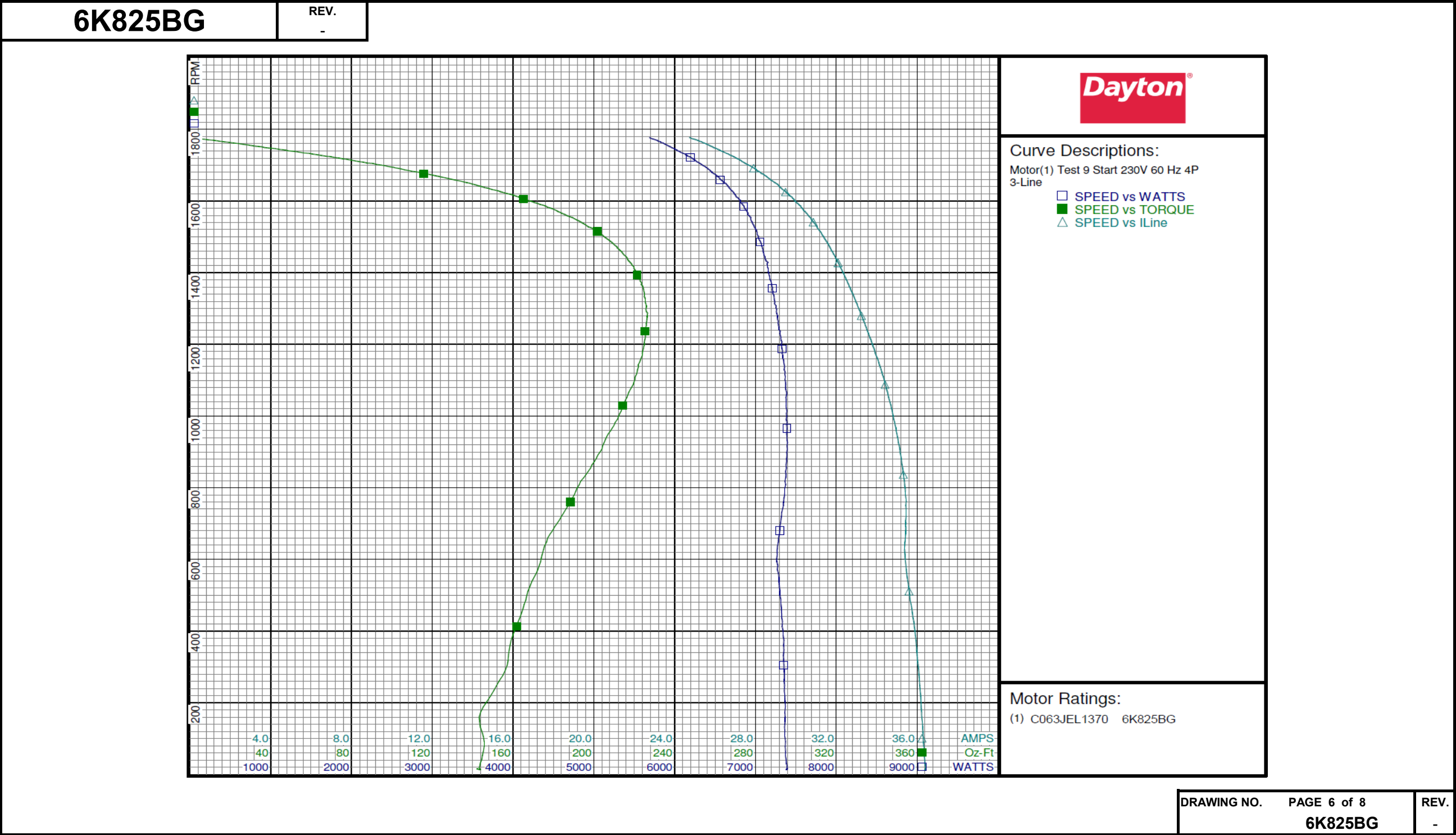
6K825BG

REV.
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DRAWING NO.	PAGE 5 of 8	REV.
6K825BG		-

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

Performance Data



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

Performance Data



6K825BG		REV. -							
Dayton Manufacturing Company									
Motor Description					Test Conditions				
Model:		C063JEL1370 6K825BG		Test Type:		Run		Run Cap: 0	
Motor ID:		No. 1 Of 3		Test Number:		10		Start Cap: 590 µfd	
Poles:		4		Poles:		4		Environment:	
Volts:		115/208-230		Volts:		230		Tested: 9/21/2005 9:23:26 PM	
Frequency:		60		Hz:		60		Tested By: Taylor, Melvin	
HP:		1		Rotation:				Gear Ratio: 1:1	
Speed:		1725		Special Cond:				Bearing Friction: -0.26 Oz-Ft	
Phase:		1		Speed Conn:				Windage Torque: -1.49 Oz-Ft	
Protector:				TestBoard:		Amps Performance		Fixture #3	
Special Points		Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
		230.0	4.63	183	1797	0.00	0.000	0.0	17.2
12.17 OZ-FT		230.0	4.78	387	1785	12.17	0.259	49.8	35.2
		230.0	4.95	491	1779	17.98	0.381	57.8	43.2
24.35 OZ-FT		230.0	5.18	599	1772	24.35	0.514	64.0	50.3
		230.0	5.71	792	1760	35.10	0.736	69.3	60.3
36.52 OZ-FT		230.0	5.80	821	1758	36.52	0.764	69.5	61.6
48.7 OZ-FT		230.0	6.57	1054	1743	48.70	1.011	71.5	69.7
1 HP		230.0	6.54	1043	1744	48.16	1.000	71.5	69.4
		230.0	6.60	1061	1743	49.03	1.017	71.6	69.9
56 OZ-FT		230.0	7.16	1206	1733	56.00	1.155	71.4	73.3
1725 RPM		230.0	7.50	1292	1725	59.77	1.227	70.8	74.9
60.87 OZ-FT		230.0	7.61	1319	1723	60.87	1.249	70.6	75.4
		230.0	7.66	1331	1722	61.39	1.259	70.5	75.6
		230.0	9.05	1664	1699	76.57	1.549	69.4	79.9
		230.0	10.39	1957	1676	88.12	1.758	67.0	81.9
		230.0	11.72	2236	1650	97.35	1.913	63.8	83.0
		230.0	13.04	2507	1624	105.65	2.043	60.8	83.6
		230.0	14.45	2777	1594	112.31	2.132	57.3	83.6
		230.0	15.84	3036	1561	117.08	2.176	53.5	83.3
		230.0	17.18	3272	1527	120.29	2.187	49.9	82.8
BDT OZ-FT		230.0	18.53	3498	1489	121.77	2.159	46.0	82.1
		230.0	18.53	3498	1489	121.77	2.159	46.0	82.1
		230.0	19.82	3707	1448	121.09	2.087	42.0	81.3
		230.0	21.08	3895	1403	119.15	1.990	38.1	80.3
		230.0	22.29	4070	1354	115.59	1.863	34.1	79.4
		230.0	23.42	4221	1301	110.35	1.710	30.2	78.4
		230.0	24.47	4350	1245	104.16	1.544	26.5	77.3
		230.0	25.47	4472	1184	96.54	1.361	22.7	76.3
		230.0	26.42	4567	1117	88.08	1.171	19.1	75.2
		230.0	27.27	4661	1045	78.30	0.974	15.6	74.3
		230.0	28.06	4731	969	68.10	0.785	12.4	73.3
		230.0	28.79	4777	886	56.02	0.591	9.2	72.1
		230.0	29.44	4818	797	43.50	0.413	6.4	71.1
		230.0	29.94	4818	702	31.08	0.260	4.0	70.0
		230.0	30.16	4802	601	27.93	0.200	3.1	69.2
		230.0	30.22	4823	497	32.72	0.194	3.0	69.4
		230.0	30.46	4867	385	27.39	0.126	1.9	69.5
		230.0	30.71	4903	261	16.51	0.051	0.8	69.4
		230.0	30.88	4914	129	5.40	0.008	0.1	69.2
PUT OZ-FT		230.0	4.65	253	1793	3.99	0.085	24.9	23.7

DRAWING NO.

PAGE 7 of 8

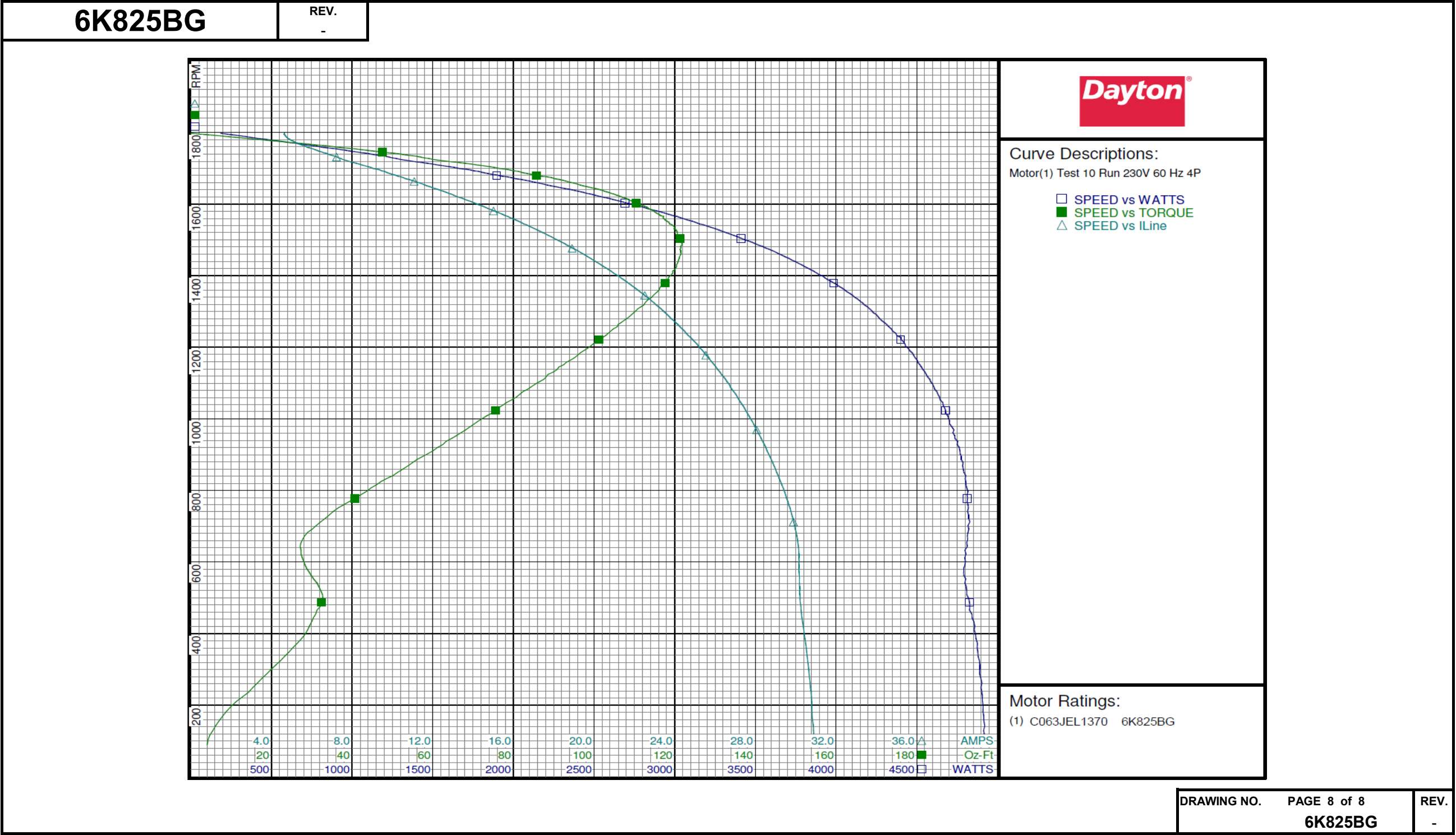
REV.

6K825BG

DRAWING NO.	PAGE 7 of 8	REV.
	6K825BG	-

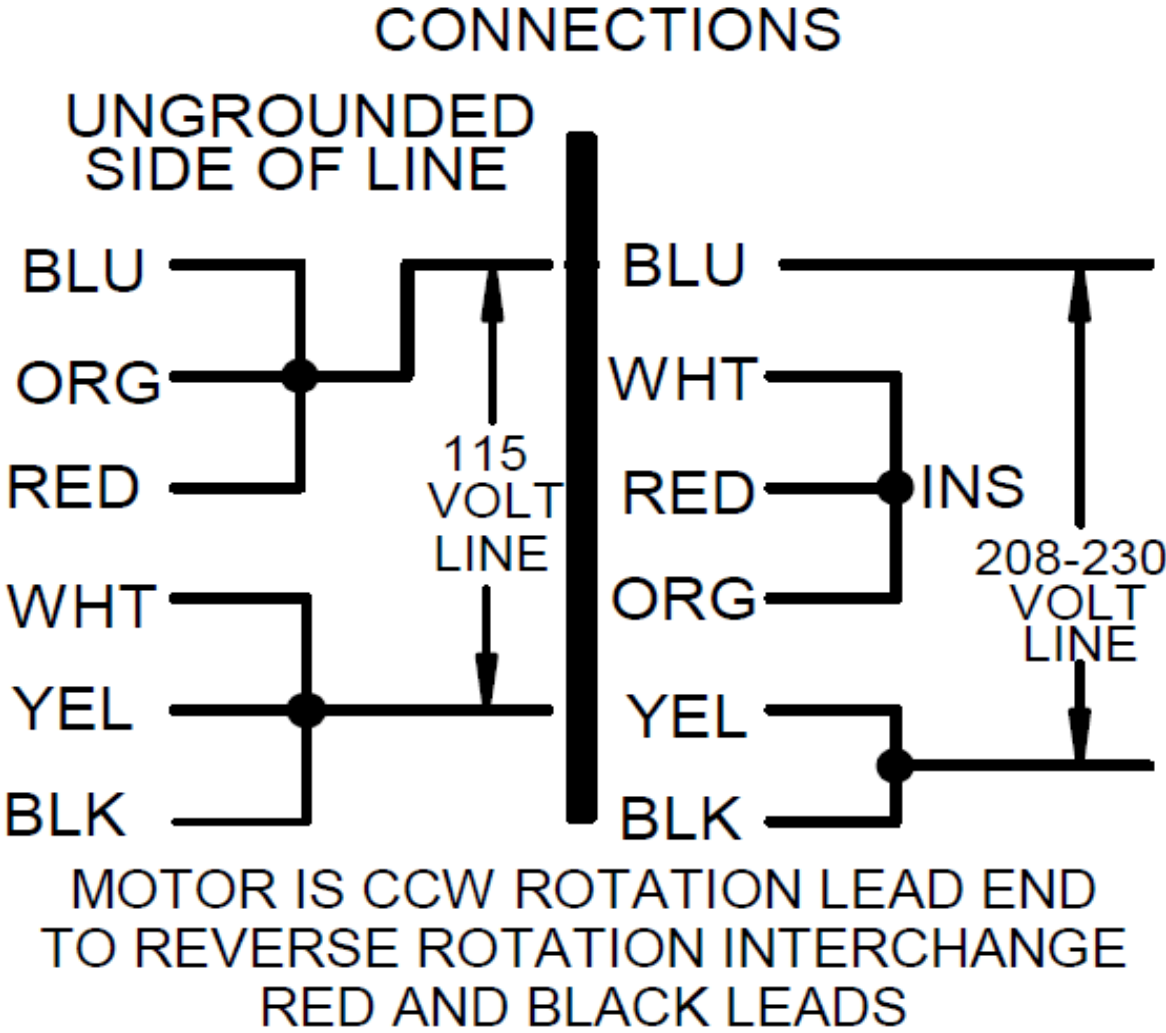
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data





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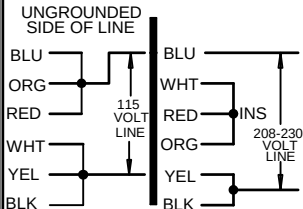
DRAWING NO.	PAGE 1 of 1	REV.
6K825BG		-

Dayton[®]**INDUSTRIAL MOTOR****HP: 1**
VOLTS: 115/208-230**Part**
No 6K825BG**AMPS: 14.8/7.5-7.3****PH: 1****RPM: 1725****HZ: 60****DUTY: CONT****FR: 143T****SF: 1.25****INS CL: B****KVA CODE: K****AMB: 40 °C****ENCL: ODP****SFA: 15.3/7.5-7.6****THERMALLY PROTECTED: NONE****MFG. NO.** **PROT. CODE:** **AVG. F.L.**
EFF.**MTR REF: C63JEL-1370****S.F. AT 208 VOLTS IS 1.0**

E47479



258501

**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS****MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS****Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**