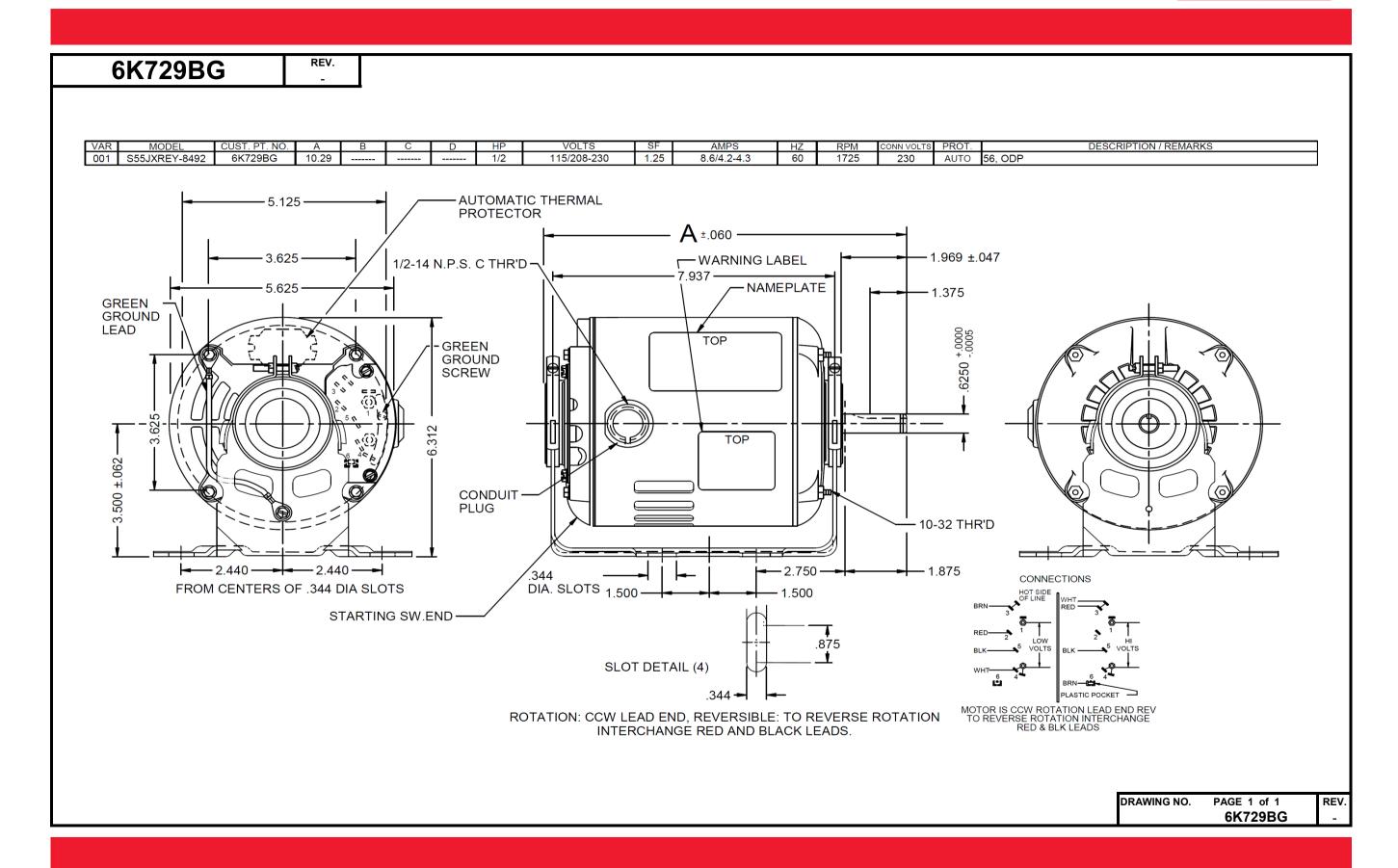
Dimensional Drawing







REV. 6K729BG **SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE** 1/2 HP: 4 Poles: Ambient (°C) 40 Altitude (FASL): No. of Speeds: Volts: 115/208-230 115 208 230 HZ: 60 60 60 60 **Service Factor:** 1.25 Efficiency: @ Rated Load 65.3 66.6 66.5 Power Factor: @ Rated Load 66.7 72.8 66.3 @ No Load Amps: @ Rated Load 7.5 3.7 3.7 @ Service Factor 8.4 3.7 4.2 @ Locked Rotor 32.8 RPM: 1735 @ Rated Load 57.8 48.8 61.4 **Torques:** Breakdown Locked Rotor 27.9 19.1 28.6 Oz.Ft. / Lb.ln. Pull-Up 24.7 18.5 23.1 (Circle One) 24.3 Rated Load 24.3 24.3 Service Factor 30.5 24.3 30.5 Watts: @ Rated Load 573 558 564 **KVA** Code: J L @ Rated Load **Temperature Rise:** 42.4 41.4 41.9 @ Service Factor 41.4 51.6 **Thermal Protector:** 127.6 Trip Temp (°C) 124.4 126.5 Cu **Winding Material:** Start (Auxiliary) Cu Run (Main) Start Micro-Farads Rating N/A Capacitor(s): Start Voltage Rating No. of Start Capacitors 0 Run Micro-Farads Rating N/A Run Voltage Rating No. of Run Capacitors 0 **LOW SPEED PERFORMANCE DATA:** HP: Poles: Volts: HZ: @ Rated Load Efficiency: **Power Factor:** @ Rated Load @ No Load Amps: @ Rated Load @ Service Factor @ Locked Rotor **Torques:** Breakdown Locked Rotor Oz.Ft. / Lb.ln. Pull-Up (Circle One) Rated Load Service Factor Watts: @ Rated Load @ Rated Load **Temperature Rise:** @ Service Factor DRAWING NO. PAGE 1 of 1

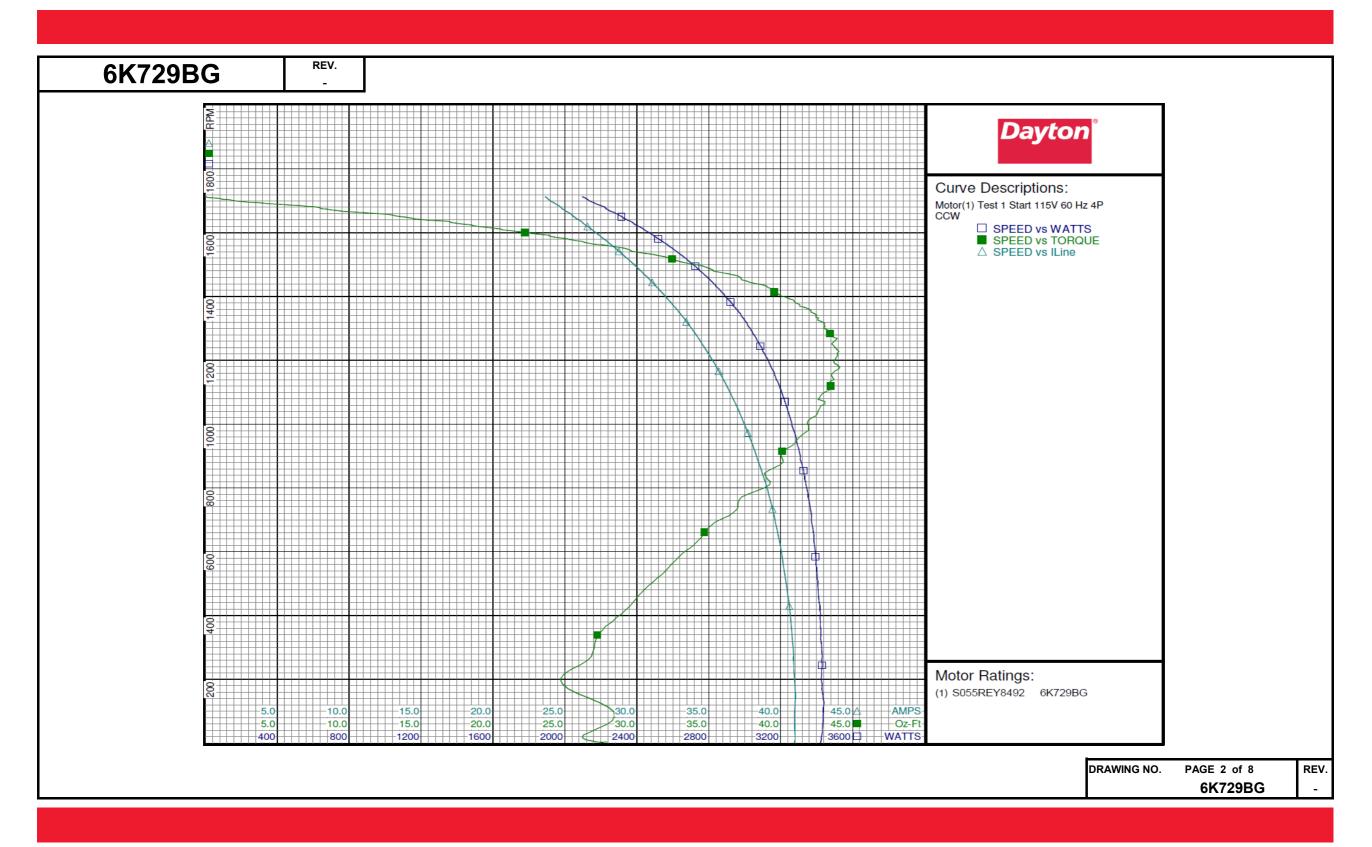
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

6K729BG



6K729BG	REV.									
	<u>. </u>			Davi	on Mai	nufacti	ıring Con	nnanv		
				Day				ipany		
Motor Des						Test Co				
Model:	S055REY84	92 6K729	BG	Test Type:	Start		Run Ca	•	0	
Motor ID:	1			Test Number:	1		Start Ca		0μfd	
Poles:	4			Poles:	4		Enviror			
Volts:	115/208-230)		Volts:	115		Tested:		3/31/2010 12:	32:04 PM
Frequency:	60/ 50			Hz:	60		Tested	By:	Sharp, Gerald	
HP:	1/2			Rotation:	CCW		Gear R	atio:	1:1	
Speed:	1725			Special Cond:			Bearing	Friction:	-0.49 Oz-Ft	
Phase:	1			Speed Conn:					: -1.69 Oz-Ft	
Protector:	MEJ36AX			TestBoard:	Amtps Po	erformance	e Fixture #3	se rorque	. 1.05 02 10	
Special Points	Vline(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
	115.0	40.97	32.82	8.725	3422	3	27.94	0.001	0.0	72.6
	115.0	40.99	32.87	8.697	3425	17	26.20	0.005	0.1	72.7
PUT OZ-FT	115.0 115.0	41.00 40.95	32.95 33.00	8.511 8.358	3441 3425	127 200	27.39 24.67	0.041 0.059	0.9 1.3	73.0 72.7
F01 02-F1	115.0	40.90	33.00	8.260	3428	258	26.55	0.082	1.8	72.9
	115.0	40.71	32.92	8.050	3421	378	28.25	0.127	2.8	73.1
	115.0	40.40	32.75	7.817	3407	493	30.79	0.181	4.0	73.3
	115.0	40.06	32.56	7.594	3393	596	33.21	0.236	5.2	73.7
	115.0 115.0	39.63 39.16	32.28 31.96	7.371 7.164	3372 3352	692 781	35.42 37.76	0.292 0.351	6.5 7.8	74.0 74.4
	115.0	38.59	31.53	6.979	3321	864	39.63	0.408	9.2	74.8
	115.0	38.00	31.09	6.815	3291	940	40.99	0.459	10.4	75.3
	115.0	37.36	30.60	6.659	3256	1012	41.92	0.505	11.6	75.8
	115.0	36.71	30.08	6.541	3220	1078	42.60	0.547	12.7	76.3
	115.0 115.0	36.01 35.29	29.52 28.94	6.444 6.382	3175 3133	1140 1197	43.69 43.69	0.593	13.9 14.8	76.7 77.2
	115.0	34.54	28.31	6.348	3081	1251	43.55	0.649	15.7	77.6
	115.0	33.79	27.68	6.355	3029	1301	42.98	0.665	16.4	77.9
	115.0	33.02	27.01	6.392	2976	1346	42.36	0.679	17.0	78.4
	115.0	32.21	26.31	6.455	2910	1389	40.89	0.676	17.3	78.6
	115.0 115.0	31.41 30.65	25.60 24.91	6.562 6.692	2848 2785	1427 1464	39.12 37.01	0.665 0.645	17.4 17.3	78.8 79.0
	115.0	29.86	24.18	6.853	2718	1497	34.44	0.614	16.8	79.2
	115.0	29.09	23.48	7.028	2649	1528	31.40	0.571	16.1	79.2
	115.0	28.34	22.75	7.229	2580	1557	28.30	0.525	15.2	79.2
	115.0	27.61	22.05	7.440	2512	1583	24.69	0.465	13.8	79.1
	115.0 115.0	26.89 26.21	21.35 20.65	7.666 7.899	2443 2375	1609 1632	20.65 17.08	0.396	12.1 10.4	79.0 78.8
	115.0	25.56	19.99	8.123	2310	1652	13.24	0.260	8.4	78.6
	115.0	24.85	19.23	8.378	2232	1674	8.44	0.168	5.6	78.1
	115.0	24.23	18.51	8.625	2162	1693	3.79	0.076	2.6	77.6
	115.0 115.0	23.68 23.61	17.94 17.86	8.847 8.870	2104 2097	1710 1713	0.11	0.002	0.1	77.3 77.2
	115.0	23.01	17.00	0.070	2031	1/13	0.00	0.000		11.2
									DRAWING NO.	PAGE 1 of



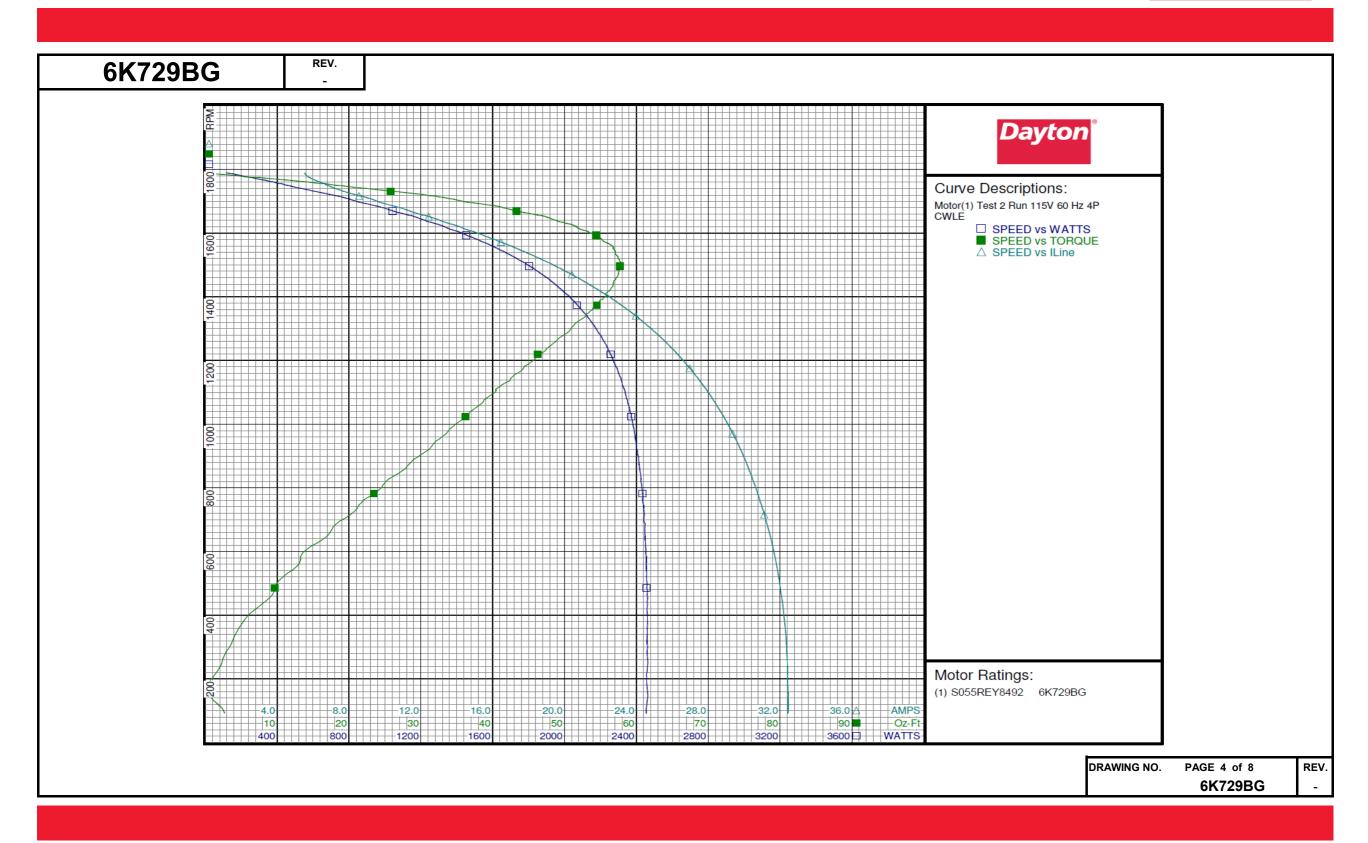




6K729BG

K729BG	REV.								
				Dov	ton Ma	nufactui	ring Cor	nnony	
				Day				прапу	
Motor Des						Test Con			
Model:	S055REY849	2 6K729BG		Test Type:	Run		Run Ca	-	0
Motor ID:	1			Test Number:			Start C		Oμfd
Poles:	4			Poles:	4		Enviro	nment:	
Volts:	115/208-230			Volts:	115		Tested:		3/31/2010 2:53:41 PM
Frequency:	60/ 50			Hz:	60		Tested	By:	Sharp, Gerald
HP:	1/2			Rotation:	CWLE		Gear R	atio:	1:1
Speed:	1725			Special Cond:			Bearing	Friction:	-0.62 Oz-Ft
Phase:	1			Speed Conn:			Windage Torque		
Protector:	MEJ36AX			TestBoard:	Amtps P	erformance		ge Torque	0210
Special Points	Vline(V)	Iline(A)	Watts	RPM To	(Oz-ft)	HP	Eff(%)	PF(%)	
-	115.0	5.53	115	1789	0.00	0.000	0.0	18.0	
	115.0	5.95	293	1770	9.60	0.202	51.5	42.8	
24.3 OZ-FT	115.0 115.0	6.79 7.47	454 573	1750 1735	18.14 24.30	0.378 0.502	62.1 65.3	58.2 66.7	
0.5 HP	115.0	7.46	571	1735	24.20	0.502	65.3	66.6	
	115.0	7.75	618	1730	26.62	0.548	66.2	69.3	
28 OZ-FT	115.0	7.95	647	1726	28.00	0.575	66.3	70.8	
1725 RPM	115.0	8.04	660	1725	28.56	0.587	66.3	71.3	
30.4 OZ-FT	115.0	8.34	698	1720	30.40	0.623	66.6	72.8	
0.625 HP	115.0 115.0	8.39 9.07	704 781	1720 1709	30.53 33.68	0.625 0.685	66.3 65.5	73.0 74.8	
	115.0	10.24	927	1688	39.42	0.792	63.8	78.7	
	115.0	11.62	1074	1664	44.38	0.879	61.1	80.3	
	115.0	13.09	1224	1639	48.89	0.954	58.1	81.3	
	115.0 115.0	14.48 15.88	1362 1496	1612 1584	52.17 54.98	1.001	54.8 51.7	81.8 81.9	
	115.0	17.31	1624	1552	56.75	1.037	48.2	81.6	
	115.0	18.66	1736	1519	57.51	1.040	44.7	80.9	
BDT OZ-FT	115.0	19.07	1771	1508	57.80	1.037	43.7	80.8	
	115.0	20.02	1846	1481	57.60	1.015	41.0	80.2	
	115.0 115.0	21.29 22.54	1942 2031	1441 1398	56.77 55.49	0.974 0.923	37.4 33.9	79.3 78.3	
	115.0	23.74	2108	1349	53.33	0.857	30.3	77.2	
	115.0	24.85	2176	1298	50.82	0.785	26.9	76.2	
	115.0	25.90	2236	1242	47.80	0.707	23.6	75.1	
	115.0 115.0	26.87 27.78	2284 2326	1182 1116	44.42 40.90	0.625 0.543	20.4 17.4	73.9 72.8	
	115.0	28.62	2362	1045	37.28	0.464	14.7	71.8	
	115.0	29.36	2390	970	33.51	0.387	12.1	70.8	
	115.0	30.05	2412	888	28.96	0.306	9.5	69.8	
	115.0	30.64	2430	801	24.51	0.234	7.2	69.0	
	115.0 115.0	31.17 31.63	2442 2453	706 604	19.52 13.99	0.164 0.101	5.0 3.1	68.1 67.4	
	115.0	31.98	2459	497	9.86	0.058	1.8	66.9	
	115.0	32.24	2461	384	5.39	0.025	0.7	66.4	
	115.0	32.40	2462	262	2.41	0.008	0.2	66.1	
	115.0	32.46	2460	132	1.09	0.002	0.1	65.9	

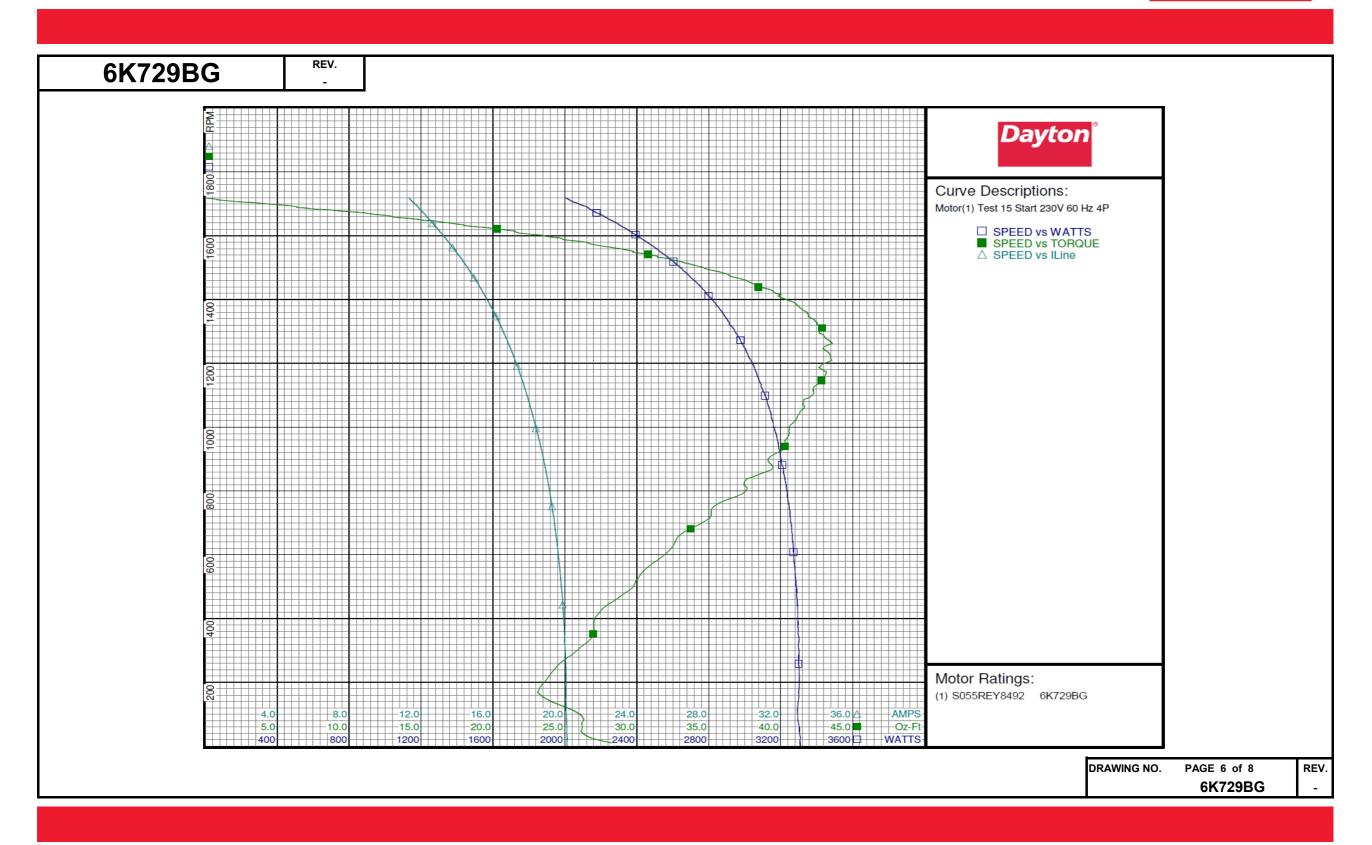






K729BG	-			Dayt	ton Mai	nufactu	ıring Con	npany		
Motor De	scription					Test Co	nditions			
Model:	S055REY849	92 6K729I	BG	Test Type:	Start		Run Ca	ap:	0	
Motor ID:	1	02 0111201		Test Number:			Start C	•	Oμfd	
Poles:	4			Poles:	4		Enviro			
Volts:	115/208-230)		Volts:	230		Tested:		3/31/2010 9:4	4.00 AM
Frequency:	60/ 50	,		Hz:	60		Tested		Sharp, Gerald	
HP:	1/2			Rotation:	00		Gear R		1:1	
	1725			Special Cond:					: -0.61 Oz-Ft	
Speed:	1/23									
Phase: Protector:	MEJ36AX			Speed Conn: TestBoard:	Amtps Po	erformance	Fixture #3	ge Torque	: -1.75 Oz-Ft	
Special Points	Vline(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
_	230.0	20.12	12.915	7.917	3311	2	28.64	0.001	0.0	71.6
	230.0	20.12	12.929	7.888	3307	18	27.34	0.006	0.1	71.5
PUT OZ-FT	230.0 230.0	20.06 20.05	12.941 12.951	7.746 7.673	3294 3299	126 169	24.81 23.10	0.037 0.046	0.8 1.1	71.4 71.6
PO1 02-F1	230.0	20.03	12.988	7.527	3299	258	24.62	0.076	1.7	71.6
	230.0	19.95	12.963	7.333	3296	378	26.99	0.122	2.8	71.8
	230.0	19.81	12.919	7.134	3289	493	29.61	0.174	3.9	72.2
	230.0	19.63	12.849	6.937	3274	597	31.84	0.226	5.2	72.5
	230.0 230.0	19.43 19.19	12.744 12.620	6.751 6.576	3260 3238	693 782	34.27 36.90	0.283	6.5 7.9	72.9 73.3
	230.0	18.94	12.476	6.417	3215	864	39.27	0.404	9.4	73.8
	230.0	18.64	12.297	6.283	3187	940	40.29	0.451	10.6	74.3
	230.0	18.32	12.077	6.186	3158	1012	40.83	0.492	11.6	74.9
	230.0	18.00	11.857	6.106	3124	1078	41.60	0.534	12.8	75.5
	230.0 230.0	17.66 17.30	11.638 11.397	6.038 5.997	3084 3042	1140 1198	42.73 42.94	0.580 0.612	14.0 15.0	75.9 76.5
	230.0	16.94	11.154	5.994	2994	1252	43.03	0.641	16.0	76.9
	230.0	16.56	10.901	6.022	2945	1301	42.71	0.661	16.8	77.3
	230.0	16.17	10.640	6.076	2889	1347	41.90	0.672	17.3	77.7
	230.0	15.78	10.379	6.166	2835	1389	41.01	0.678	17.8	78.1
	230.0 230.0	15.38 14.99	10.110 9.844	6.283 6.421	2775 2711	1428 1464	39.39 37.29	0.670 0.650	18.0 17.9	78.4 78.6
	230.0	14.60	9.580	6.583	2647	1498	34.71	0.619	17.4	78.8
	230.0	14.21	9.310	6.764	2578	1529	32.06	0.584	16.9	78.9
	230.0	13.83	9.055	6.955	2514	1558	29.07	0.539	16.0	79.0
	230.0 230.0	13.46 13.09	8.795 8.541	7.162 7.384	2444 2376	1584 1608	25.67 21.75	0.484	14.8 13.1	78.9 78.9
	230.0	12.75	8.307	7.593	2307	1631	18.07	0.351	11.4	78.7
	230.0	12.40	8.056	7.825	2235	1654	14.13	0.278	9.3	78.4
	230.0	12.08	7.819	8.054	2167	1674	10.30	0.205	7.1	78.0
	230.0	11.79	7.649	8.266	2110	1693	5.97	0.120	4.3	77.8
	230.0 230.0	11.44 11.33	7.425 7.355	8.501 8.598	2030 2005	1710 1718	1.34	0.027	1.0	77.1 77.0
									DD 4117712 112	
									DRAWING NO.	PAGE 5 o 6K729

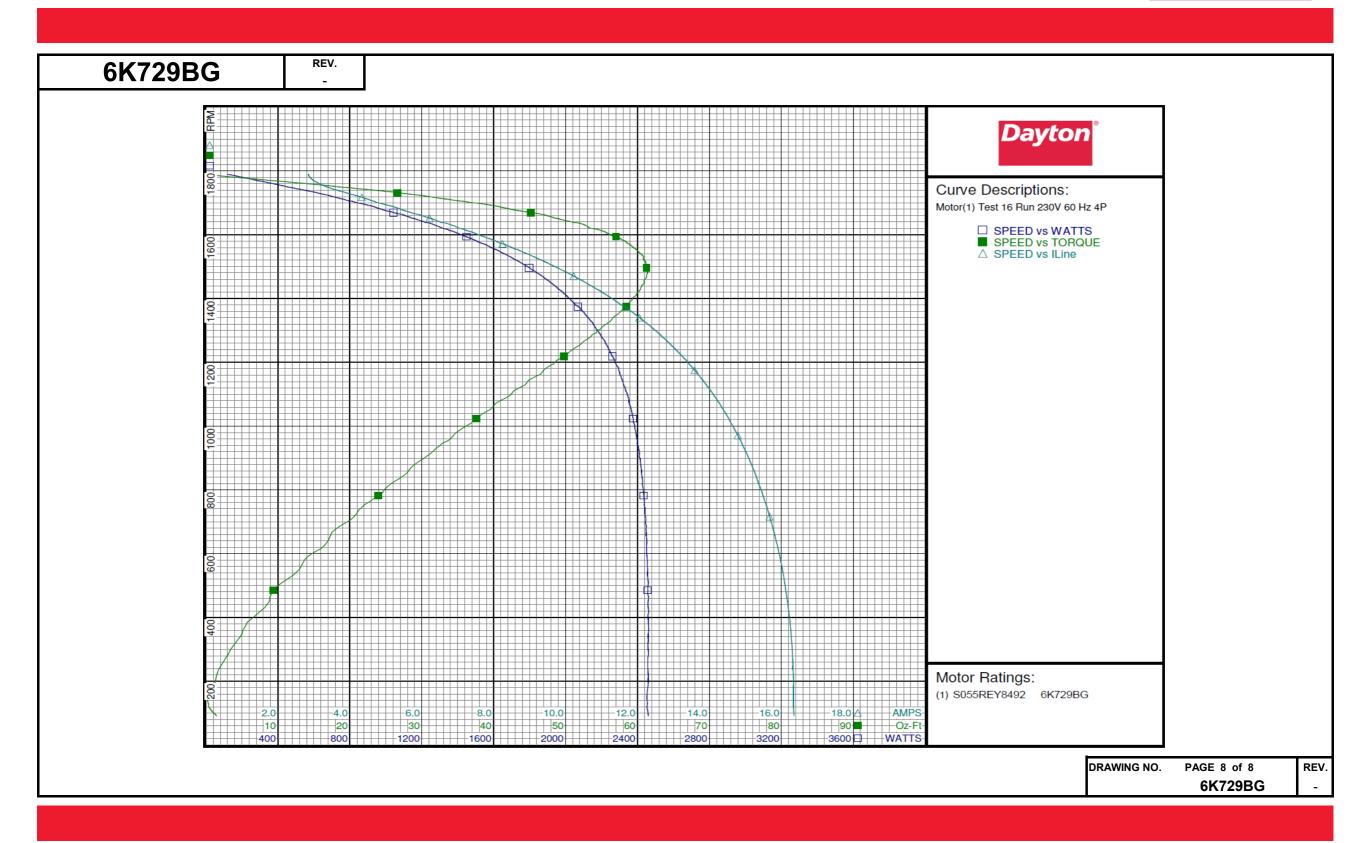






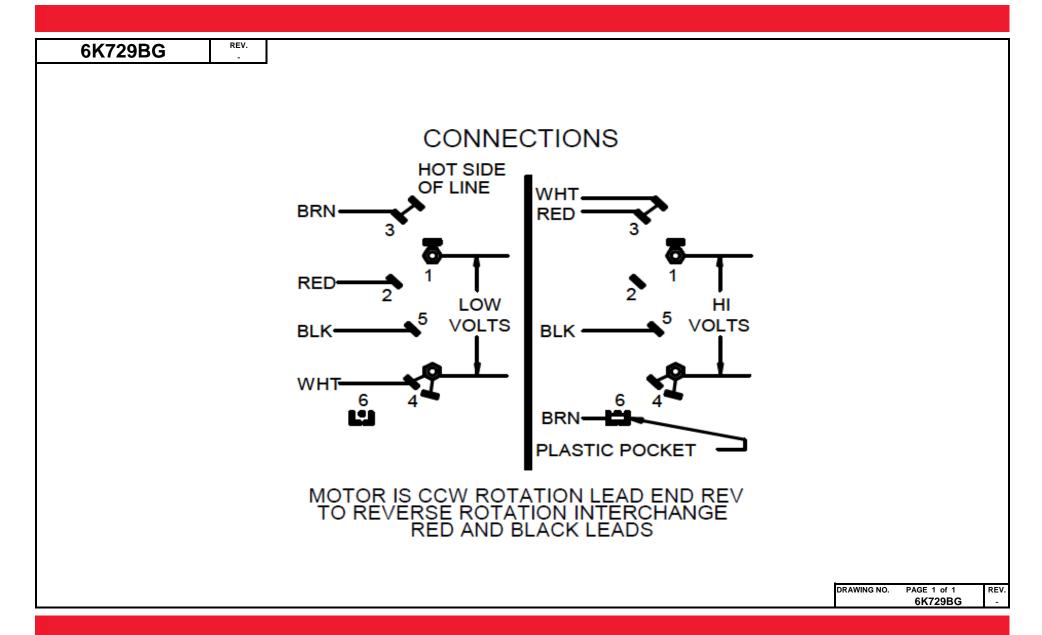
Motor Description	6K729BG	REV.									
Motor Description Model: S055REY84892 6K729EG Test Type: Run Run Cap: Out of the poles: 4		<u> </u>			Da	vton Ma	nufactu	ring Con	nnanv		
Model: S05SREY8492 6K729BG	Motor Dos	arintian			24	y com wat			ipuily		
Motor ID:					Т Т	D	Test Con			0	
Poles: 4 Volts: 230 Frequency: 60/ 50 Hz: 60 Hz: 60 Tested: 3/31/2010 9:10:14 AM Sharp, Gerald HP: 1/2 Rotation: Speed: Cond. Rotation: Speed: Cond. Rotation: TestBoard: Tested: Speed: Rotation: TestBoard: TestBoard: Windage Torque: -1.75 Oz-Ft Special Points Vine(V) Iline(N) Watts Speed Cond. Rotation: TestBoard: Tes		S055REY849	92 6K729BG								
Volts: 115/208-230		1								θμέα	
Frequency: 60/ 50		4								0.00.100.100.1	
HP; 1/2 Rotation: Speed Com: Speed: 1725 Speed: 1725 Speed: 1725 Speed:)								0:14 AM
Special Points Vine (v) Iline (A) Watts RPM Tq(Oz-Ft) RP Eff (**) PF (**)						60			•		
Phase: 1 Protector: MEJ36AX Protector: MEJ36AX											
Protector: MEJ36AX TestBoard: Amtps Performance Fixture #3		1725									
Special Points		1							ge Torque	: -1.75 Oz-Ft	
230.0 2.842 120 1789 0.00 0.000 0.0 18.3 230.0 2.989 285 1769 9.04 0.190 49.8 41.5 230.0 3.399 455 1749 18.66 0.388 63.7 58.9 24.3 OZ-FT 230.0 3.700 564 1747 24.30 0.506 66.5 66.1 0.190 20.0 3.998 631 1738 24.31 0.506 66.5 66.1 28 OZ-FT 230.0 3.948 631 1738 27.52 0.566 66.9 69.5 1725 RPM 230.0 4.100 667 1725 29.18 0.599 67.0 70.7 30.4 OZ-FT 230.0 4.215 693 1721 30.40 0.623 67.1 71.4 0.625 HP 230.0 4.225 695 1721 30.40 0.625 67.1 71.5 230.0 4.518 768 1710 33.73 0.687 66.7 73.9 230.0 5.182 928 1688 40.61 0.816 65.6 77.9 230.0 6.535 1220 1638 40.61 0.816 65.6 77.9 230.0 7.235 1354 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 7.963 1489 1584 1613 54.90 1.054 58.1 81.4 230.0 10.602 1036 1837 1482 61.38 1.083 44.0 79.6 230.0 11.314 2025 1388 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.314 2025 1398 59.28 0.986 36.3 77.8 230.0 11.516 2415 887 2.29 0.485 15.3 71.4 230.0 11.516 2415 887 2.29 0.485 15.3 71.4 230.0 11.516 2415 887 2.29 0.485 15.3 71.4 230.0 11.516 2415 887 2.29 0.485 15.3 71.4 230.0 11.516 2415 887 2.948 0.311 9.6 69.4 230.0 11.516 2415 887 2.948 0.311 9.6 69.4 230.0 16.188 2458 497 9.87 0.088 0.2 66.5	Protector:	MEJ36AX			TestBoard:	Amtps P	erformance	Fixture #3			
230.0 2.989 285 1769 9.04 0.190 49.8 41.5 230.0 3.259 455 1749 18.66 0.388 63.7 58.9 24.3 OZ-FT 230.0 3.700 564 1737 24.30 0.503 66.5 66.1 28 OZ-FT 230.0 3.948 631 1728 24.30 0.506 66.5 66.1 28 OZ-FT 230.0 3.992 641 1728 28.00 0.576 67.0 69.8 1725 RPM 230.0 4.100 667 1725 29.18 0.599 67.0 70.7 30.4 OZ-FT 230.0 4.215 693 1721 30.40 0.623 67.1 71.4 0.625 HP 230.0 4.215 693 1721 30.51 0.625 67.1 71.5 230.0 5.854 1079 16.8 1710 30.3 10.687 66.7 73.9 230.0 5.854 1079 16.8 33.73 0.687 66.7 73.9 230.0 6.535 1220 1638 51.15 0.997 61.0 81.2 230.0 7.963 1489 1584 57.82 1.090 54.6 81.3 230.0 7.963 1489 1584 57.82 1.090 54.6 81.3 230.0 7.963 1489 1584 57.82 1.090 54.6 81.3 230.0 10.030 1837 1482 61.38 1.083 44.0 79.6 230.0 10.030 1837 1482 61.38 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.086 36.3 77.8 230.0 11.314 2025 1398 59.28 1.083 44.0 79.6 230.0 11.314 2025 1398 59.28 1.080 38.3 77.8 230.0 11.314 2025 1398 59.28 1.086 36.3 77.8 230.0 11.314 2025 1398 59.28 1.080 38.0 38.7 77.8 230.0 11.314 2025 1398 59.28 1.080 38.0 38.7 77.8 230.0 15.435 2435 2432 800 24.79 0.266 7.2 68.5 230.0 15.435 2435 800 24.79 0.266 7.2 68.5 230.0 15.435 2435 800 24.79 0.266 7.2 68.5 230.0 15.435 2435 800 24.79 0.266 7.2 68.5 230.0 16.316 2458 2458 261 2.42 0.008 0.2 65.5 230.0 16.316 2458 261 2.42 0.008 0.2 65.5	Special Points										
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Wiring Diagram





Dayton BELT DRIVE FAN & BLOWER MOTOR

HP: 1/2 VOLTS: 115/208-230

DUTY: CONT

KVA CODE: L

ENCL: ODP

SF: 1.25



Part 6K729BG

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

> CONNECTIONS HOT SIDE

MOTOR IS CCW ROTATION LEAD END REV TO REVERSE ROTATION INTERCHANGE

OF LINE

AMPS: 8.6/4.2-4.3 PH: 1 **RPM**: 1725 **HZ**: 60

FR: 56

INS CL: B

AMB: 40 C **SFA:** 9.4/4.9-4.7

THERMALLY PROTECTED: AUTO AVG. F.L. MFG. NO. PROT. CODE: 04390 MTR REF: S55JXREY-8492





WH.

Made in Mexico

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