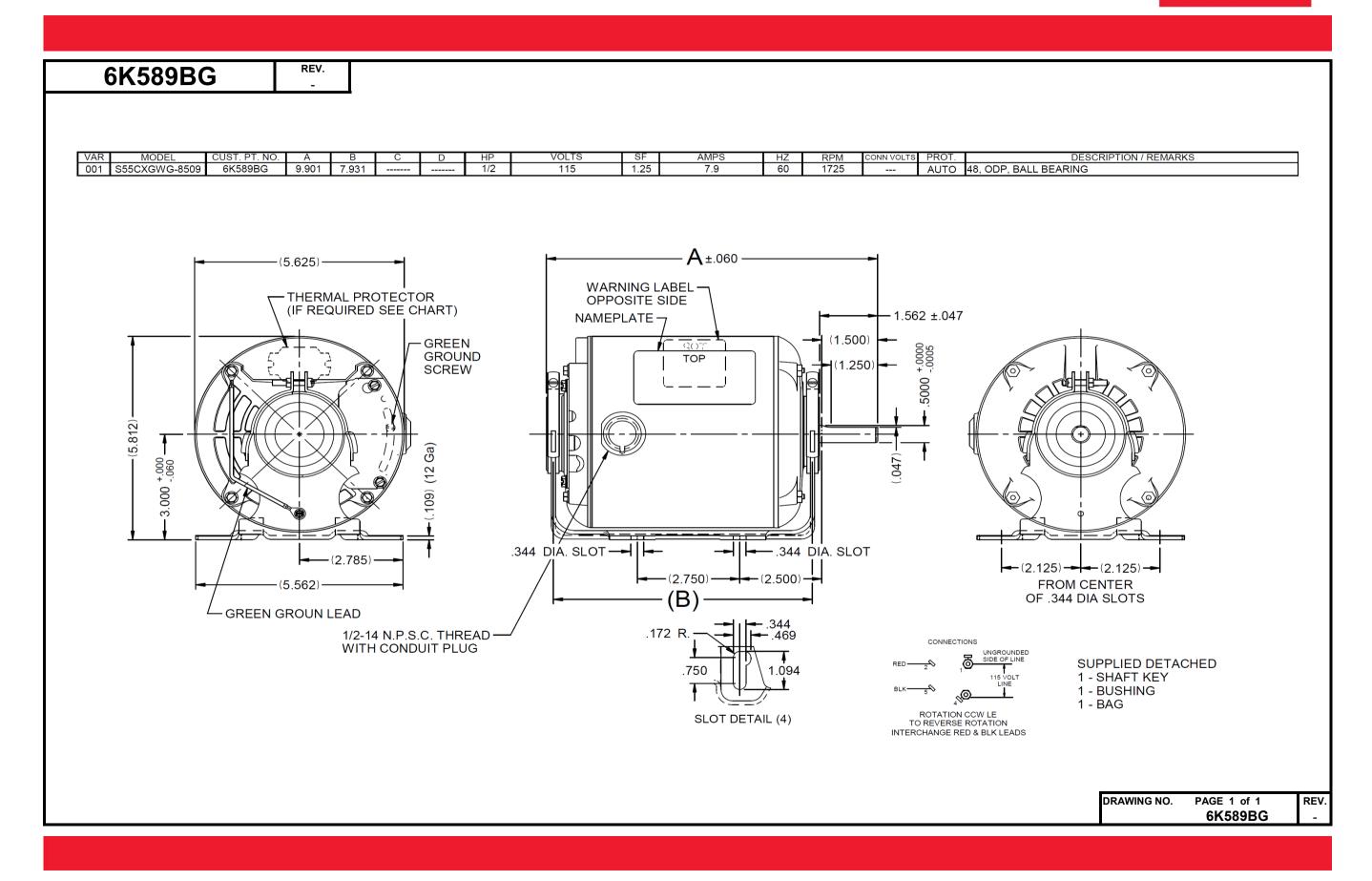
Dimensional Drawing





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

Performance Data



6K589B	G REV.						
	Мото	R PERFO	RMANCE				
HP:	1/2 HP						
Poles:	4	-					
No. of Speeds:	1						
Volts:	115	115					
HZ:	60	60					
Service Factor:	1.25						
Efficiency:	@ Rated Load	66.0					
Power Factor:	@ Rated Load	66.2					
mps:	@ No Load			_			
	@ Rated Load @ Service Factor	7.47					
	@ Locked Rotor	8.01					
RPM:	@ Rated Load	30.7					
Ambient (°C):			1				
Altitude (FASL):							
Torques:	Breakdown	56.0	Ţ	1			
	Locked Rotor	31.2					
	Pull-Up	29.0					
	Rated Load	24.3					
	Service Factor	0.576					
Watts:	Rated Load	568.0					
KVA Code:							
Temperature Rise:	@ Rated Load	42.5					
	@ Service Factor	50.3					
Thermal Protector:	Trip Temp (°C)	115.2					
Winding Material:	Start (Auxiliary)	AL					
0	Run (Main) Start (MFD / Volts)	CO					
Capacitor(s):	No. of Start Capacitors						
	Run (MFD / Volts)						
	No. of Run Capacitors						
LOW SPEED PER	FORMANCE DATA:				L		
HP:							
Poles:							
Volts:							
HZ:							
Efficiency:	@ Rated Load						
Power Factor:	@ Rated Load						
Amps:	@ No Load						
-	@ Rated Load						
	@ Service Factor	_ _					
	@ Locked Rotor						
Torques:	@ Rated Load	_ _					
	Locked Rotor	_ _					
	Pull-Up						
	Rated Load	+					
Watts:	Service Factor	+					
Temperature Rise:	@ Rated Load @ Rated Load	+					
remperature Rise:	@ Service Factor	+ +			 		
						WING NO. PAG	Έ

Dayton Electric Mfg. Co. Lake Forest, IL 60045

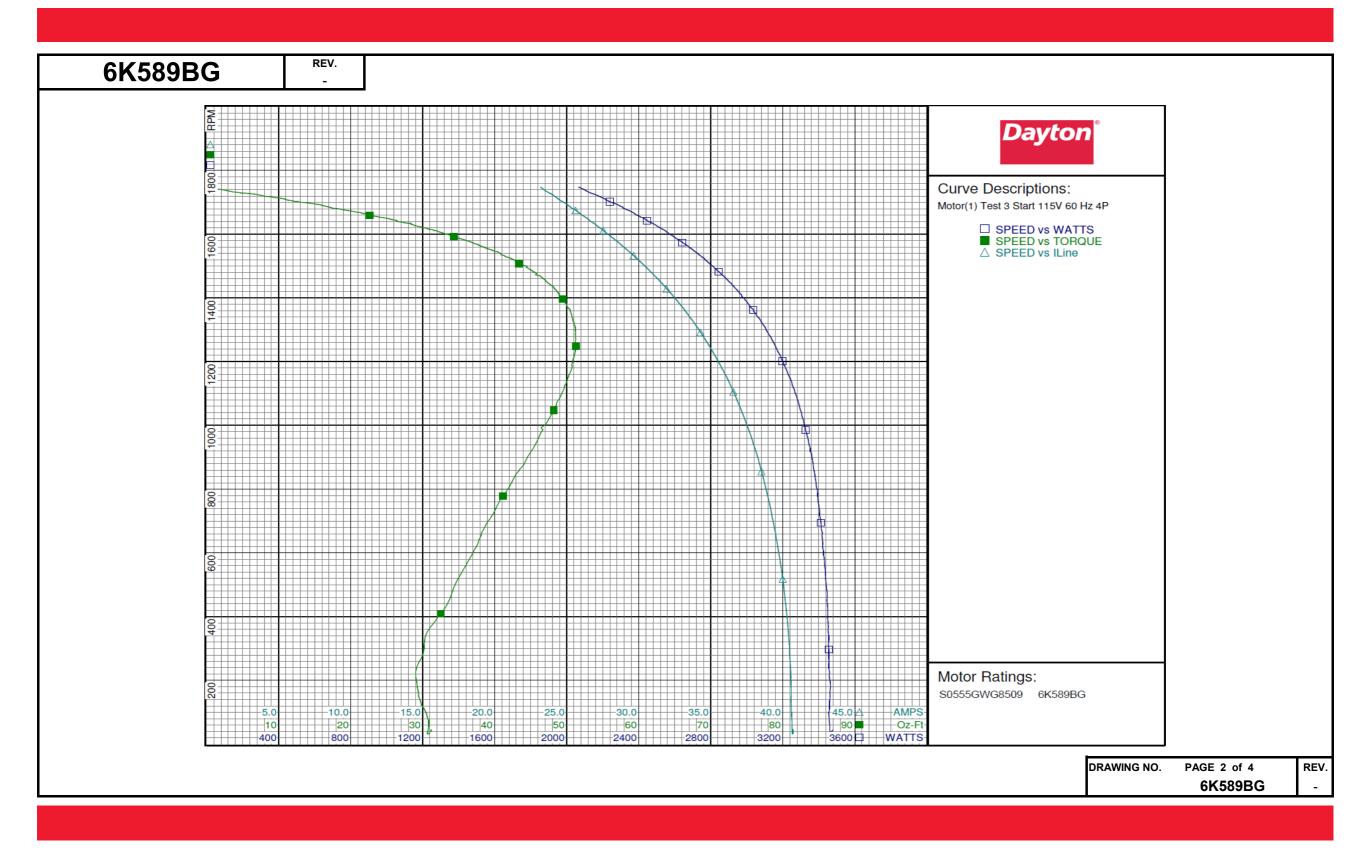


K589BG	REV.										
				Dav	ton Ma	nufactu	ring Con	npany			
Matan Da	aulu ti au										
Model: S0555GWG8509 6K589BG		Test Conditions Test Type: Start Run Cap:					0				
Model:	S0555GWG8	6509 6K58	9BG	Test Type:	Start			-			
Motor ID:			Test Number:	3		Start Cap: Environment:		0µfd			
Poles:	4			Poles:	4				20.6 Deg C		992 hPa
Volts:	115			Volts:	115		Tested:		10/9/2012 4		
Frequency:	60		Hz:	60		Tested By:		Sharp, Gera	ld		
HP:	1/2			Rotation:			Gear Ra		1:1		
Speed:	1725			Special Cond:			Bearing Friction:				
Phase: Protector:	1 CEJ38EY			Speed Conn: TestBoard:	Amtps P	erformance	Windag Fixture #4	ge Torque	: -0.78 Oz-Ft		
Special Points	Vline(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)	
-	115.0	40.71	30.68	10.821	3474	42	31.20	0.016	0.3	74.2	
	115.0	40.65	30.65	10.801	3461	40	30.70	0.015	0.3	74.0	
PUT OZ-FT	115.0 115.0	40.58 40.55	30.70 30.74	10.602 10.467	3462 3459	149 225	29.42 29.00	0.052 0.078	1.1 1.7	74.2 74.2	
201 02-21	115.0	40.45	30.70	10.336	3456	297	30.15	0.107	2.3	74.3	
	115.0	40.20	30.59	10.070	3448	436	33.34	0.173	3.7	74.6	
	115.0	39.83	30.39	9.787	3431	569	36.18	0.245	5.3	74.9	
	115.0 115.0	39.39 38.89	30.10 29.75	9.532 9.289	3413 3393	684 788	38.66 41.50	0.315	6.9 8.6	75.3 75.9	
	115.0	38.35	29.75	9.055	3367	883	44.14	0.464	10.3	76.3	
	115.0	37.76	28.93	8.833	3334	970	46.27	0.534	12.0	76.8	
	115.0	37.11	28.44	8.633	3298	1048	48.21	0.601	13.6	77.3	
	115.0 115.0	36.43 35.71	27.91 27.35	8.455 8.309	3258 3212	1118 1184	49.67 50.77	0.661 0.716	15.1 16.6	77.8 78.2	
	115.0	34.96	26.75	8.201	3162	1243	51.27	0.759	17.9	78.6	
	115.0	34.21	26.14	8.135	3109	1297	51.19	0.790	19.0	79.0	
	115.0	33.45	25.51	8.113	3054	1345	50.69	0.811	19.8	79.4	
	115.0 115.0	32.69 31.94	24.86 24.21	8.132 8.184	2998	1389 1428	49.70 48.27	0.822	20.4	79.7 80.0	
	115.0	31.94	23.51	8.274	2940 2877	1428	48.27	0.821 0.811	20.8	80.2	
	115.0	30.43	22.83	8.396	2810	1499	44.52	0.795	21.1	80.3	
	115.0	29.71	22.18	8.541	2750	1528	41.51	0.755	20.5	80.5	
	115.0 115.0	29.00 28.32	21.50 20.85	8.714 8.901	2682 2618	1557 1583	38.59 35.59	0.715	19.9 19.1	80.4 80.4	
	115.0	27.65	20.85	9.106	2555	1607	32.27	0.617	18.0	80.3	
	115.0	27.03	19.58	9.319	2492	1629	28.66	0.556	16.6	80.2	
	115.0	26.41	18.94	9.541	2428	1649	25.11	0.493	15.1	79.9	
	115.0 115.0	25.79 25.18	18.29 17.64	9.781 10.033	2362 2297	1669 1688	20.80 16.40	0.413 0.330	13.0 10.7	79.6 79.3	
	115.0	24.58	16.95	10.033	2228	1705	11.80	0.240	8.0	78.8	
	115.0	24.02	16.28	10.560	2159	1723	7.14	0.146	5.1	78.2	
	115.0	23.44	15.67	10.808	2100	1738	2.42	0.050	1.8	77.9	
	115.0	23.17	15.32	10.948	2065	1747	0.00	0.000	0.0	77.5	
										DRAWING NO.	PAGE 1 of
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



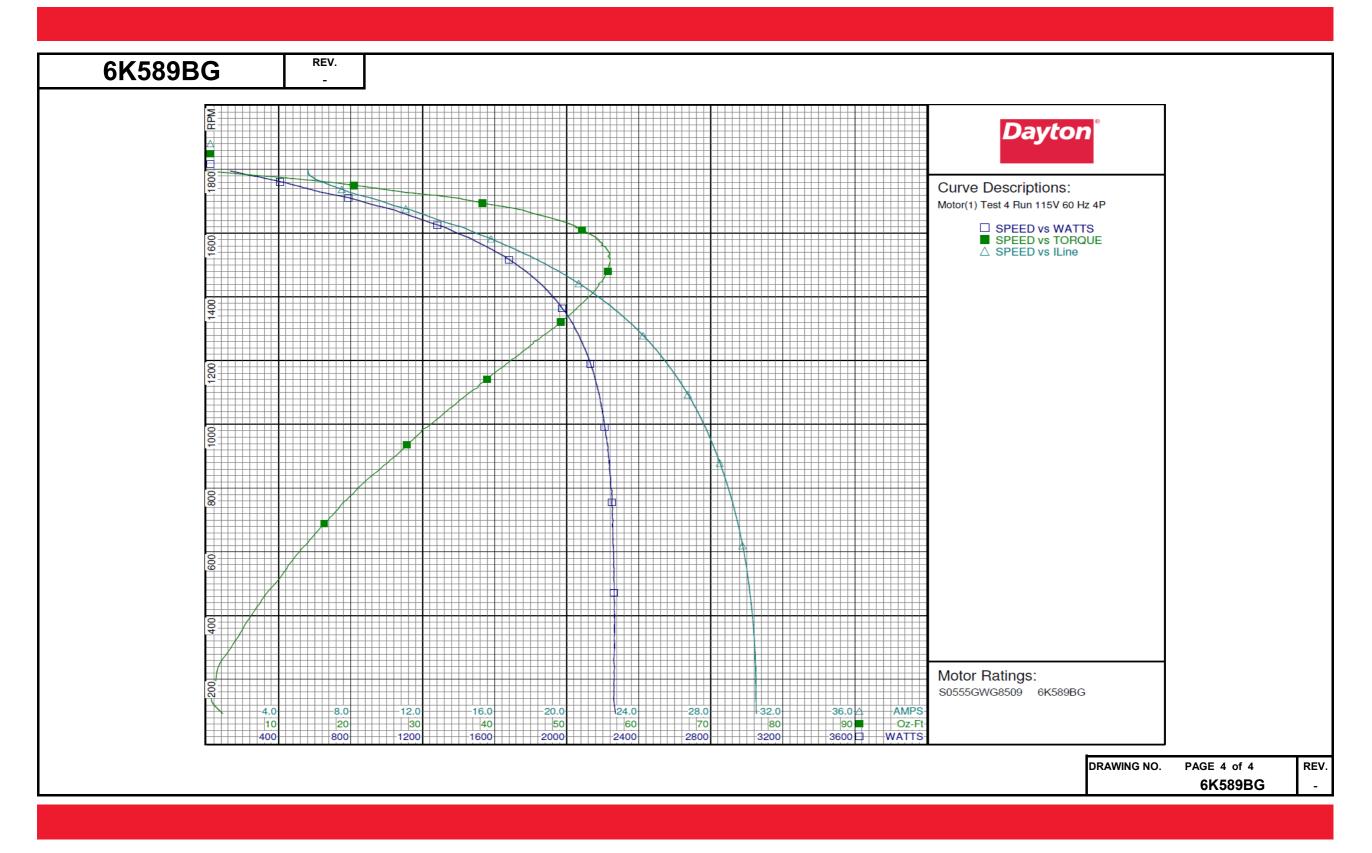




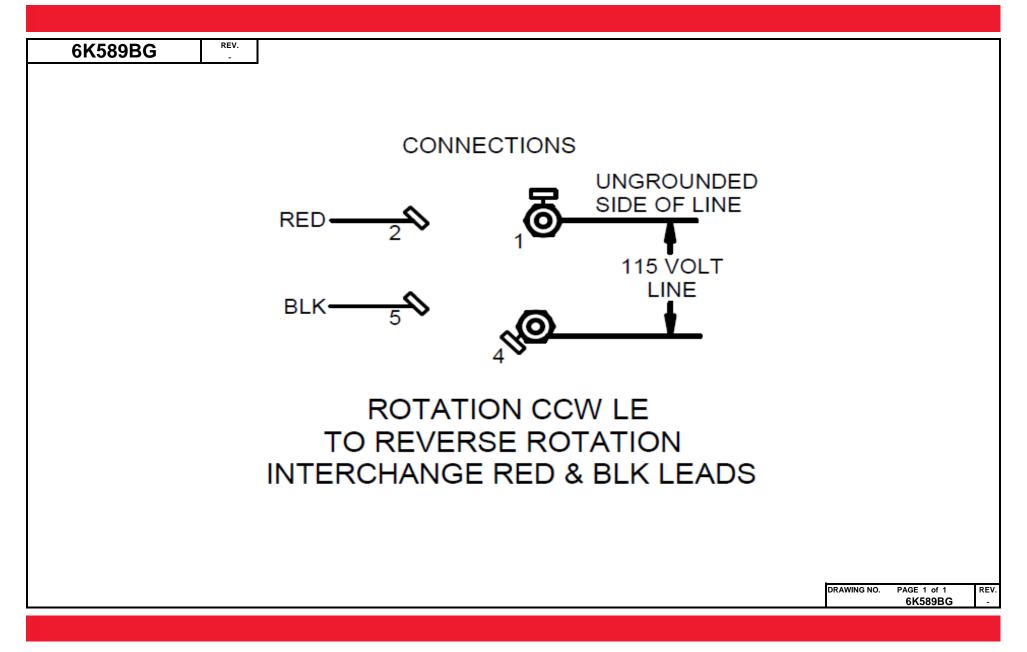
6K589BG	REV. -											
				Da	yton Ma	nufactu	ring Cor	npany				
Motor Des	cription					Test Con	ditions					
Model:	\$0555GWG	8509 6K589	BG	Test Type:	Run		Run Ca	ap:	0			
Motor ID:	1			Test Numbe	r: 4		Start C		0µfd			
Poles:	4			Poles:	4		Enviro	nment:	20.6 Deg C 36 %	RH 9	92 hPa	
Volts:	115			Volts:	115		Tested	:	10/9/2012 3:45:27	PM		
Frequency:	60			Hz:	60		Tested	By:	Sharp, Gerald			
HP:	1/2			Rotation:			Gear R		1:1			
Speed:	1725			Special Con	d:		Bearin	g Friction:	-0.50 Oz-Ft			
Phase:	1			Speed Conn				ge Torque:	: -1.70 Oz-Ft			
Protector:	CEJ38EY			TestBoard:	Amtps P	erformance	Fixture #4					
Special Points	Vline(V)	Iline(A)	Watts		Iq(Oz-ft)	HP	Eff(%)	PF(%)				
	115.0 115.0	5.61 5.66	130 207	1795 1785	0.00	0.000	0.0 34.8	20.1 31.8				
	115.0	5.87	297	1776	9.95	0.210	52.9	43.9				
	115.0	6.30	399	1762	15.76	0.331	61.9	55.0				
24.3 OZ-FT	115.0 115.0	6.96 7.47	501 568	1749 1738	20.96 24.30	0.436 0.503	64.9 66.0	62.7 66.2				
0.5 HP	115.0	7.44	565	1739	24.16	0.500	66.0	66.0				
	115.0	7.78	613	1732	26.39	0.544	66.2	68.5				
28 OZ-FT	115.0	8.01	649	1727	28.00	0.576	66.2	70.4				
1725 RPM	115.0 115.0	8.10 8.79	663 756	1725 1715	28.82 33.09	0.592 0.675	66.6 66.6	71.1 74.8				
	115.0	10.00	889	1694	38.31	0.773	64.8	77.3				
	115.0	11.39	1045	1672	43.99	0.875	62.5	79.8				
	115.0 115.0	12.94 14.45	1206 1345	1640 1612	48.92 51.86	0.955	59.1 55.2	81.0 80.9				
	115.0	15.96	1482	1578	54.39	1.022	51.4	80.7				
	115.0	17.55	1618	1538	55.89	1.023	47.2	80.2				
BDT OZ-FT	115.0 115.0	18.50 19.19	1693 1746	1512 1491	55.99 55.72	1.008 0.989	44.4 42.2	79.6 79 . 1				
	115.0	20.66	1852	1442	54.43	0.935	37.7	77.9				
	115.0	21.93	1935	1392	52.71	0.874	33.7	76.7				
	115.0 115.0	23.08 24.14	2005 2062	1340 1284	50.22 47.15	0.801 0.721	29.8 26.1	75.5 74.3				
	115.0	25.03	21062	1229	43.88	0.642	22.7	73.1				
	115.0	25.85	2144	1170	40.41	0.563	19.6	72.1				
	115.0 115.0	26.58 27.23	2174 2198	1107 1043	36.97 33.40	0.487 0.415	16.7 14.1	71.1 70.2				
	115.0	27.82	22190	975	29.74	0.345	11.6	69.3				
	115.0	28.35	2230	903	26.35	0.283	9.5	68.4				
	115.0 115.0	28.81 29.25	2244 2251	828 745	22.32 18.57	0.220	7.3	67.7 66.9				
	115.0	29.62	2251	658	15.10	0.118	3.9	66.2				
	115.0	29.93	2261	567	11.69	0.079	2.6	65.7				
	115.0 115.0	30.16 30.36	2261 2265	472 371	8.38 5.29	0.047	1.6	65.2 64.9				
	115.0	30.36	2265	263	2.18	0.007	0.8	64.5				
	115.0	30.50	2262	151	0.65	0.001	0.0	64.5				
									DRAWI	NG NO.	PAGE 3 of 4	-
											6K589BG	

Performance Data









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

