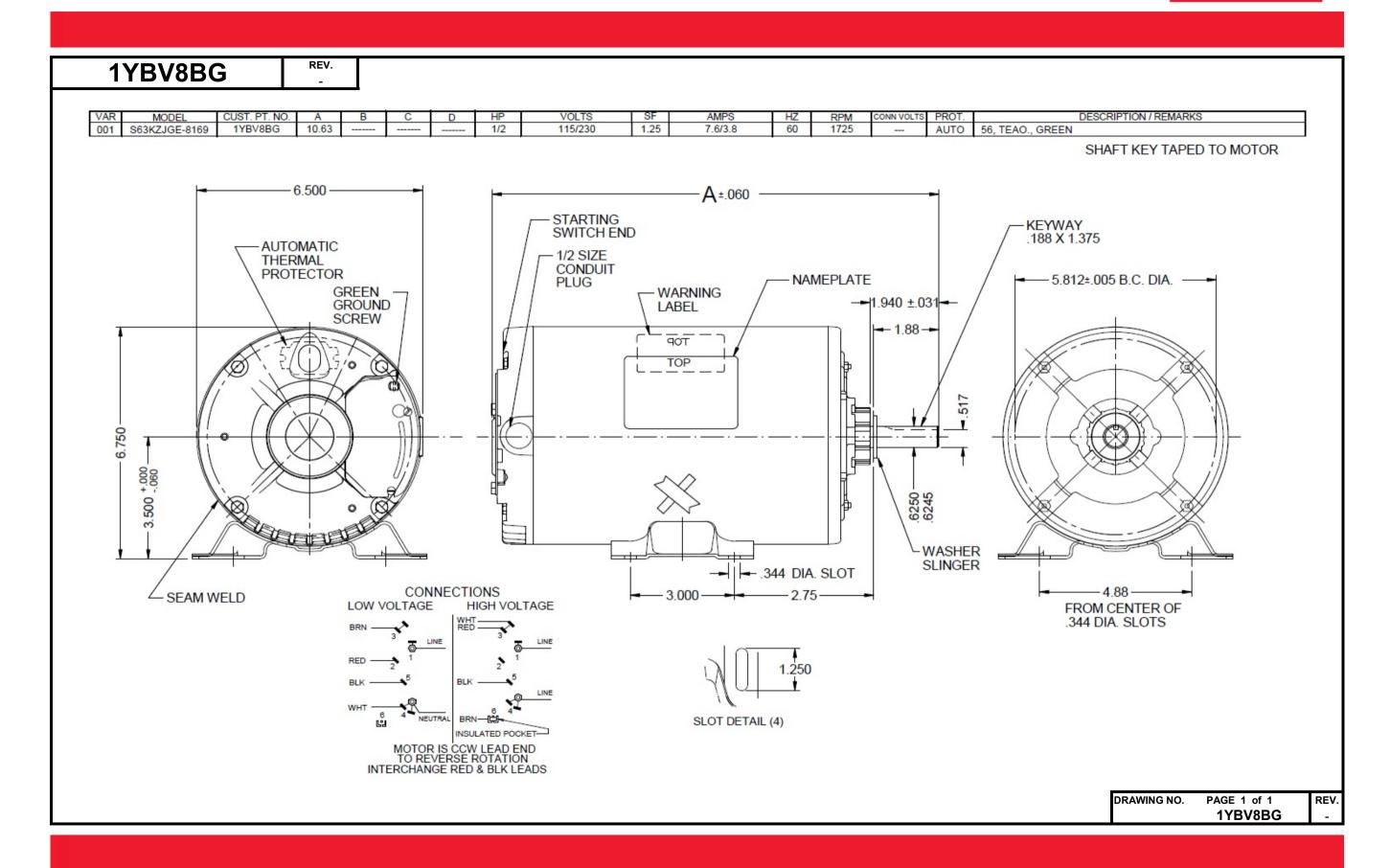
Dimensional Drawing





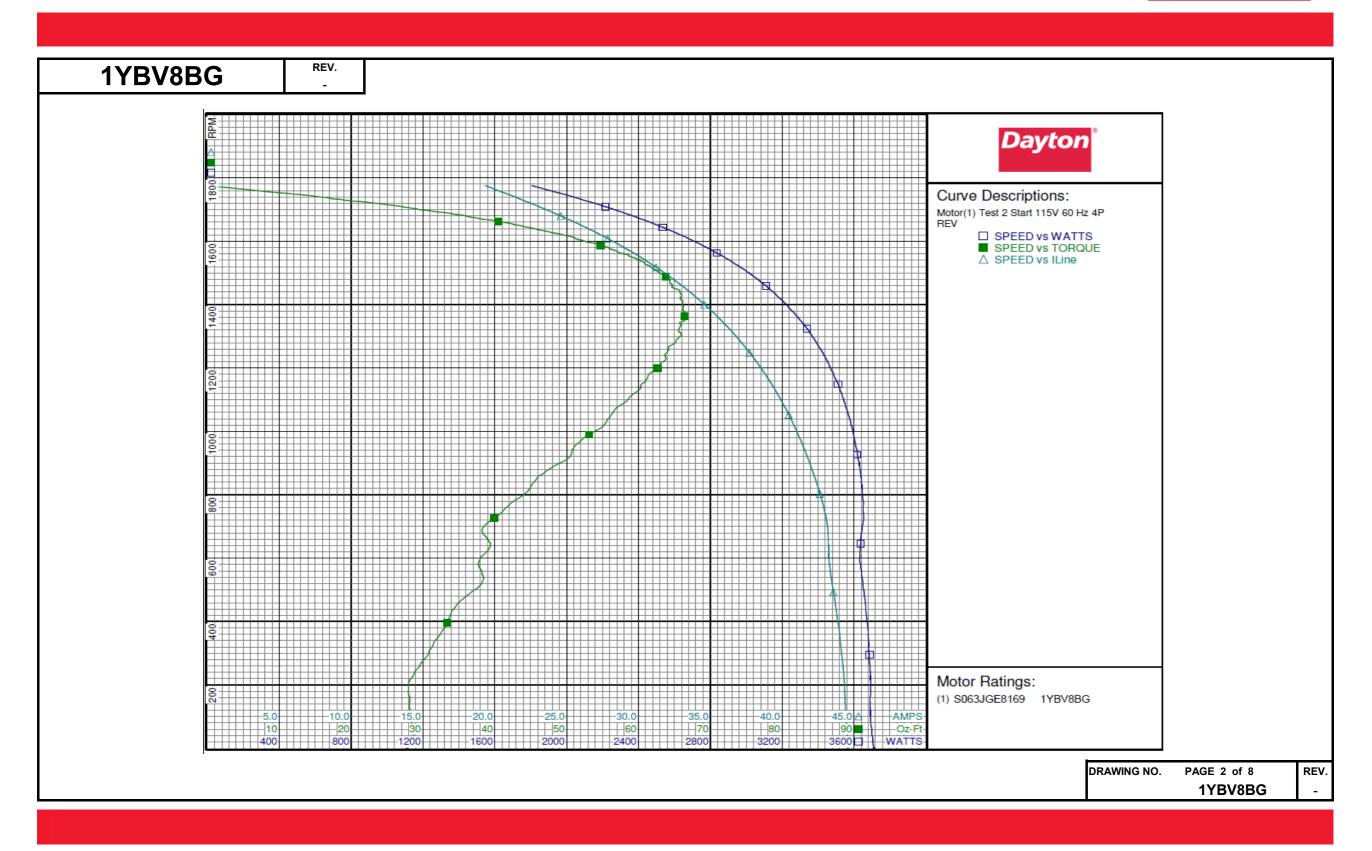


1YBV8BG	REV.									
SPLIT	-PHASE & CAPACIT	TOR ST	ART M	ОТОК	? PERF	ORMA	NCE			
U. E.	THACE GOAL ACT									
HP:	1/2									
Poles:	4									
Ambient (°C):	40									
Altitude (FASL):			I	Τ						
No. of Speeds:	1									
Volts:	115/230	115	230							
HZ:	60	60	60							
Service Factor:	1.25									
Efficiency:	@ Rated Load	68.7	68.7							
Power Factor:	@ Rated Load	68.3	68.5							
Amps:	@ No Load									
	@ Rated Load	7	3.5			+				
	@ Service Factor @ Locked Rotor	7.9	4		44.6					
RPM:	@ Rated Load				1749					
Torques:	Breakdown	67.6	68.6	Τ	1745	1	T	1		
i vi ques.	Locked Rotor	27.7	22.5	1		1				
	Pull-Up	27.6	22.5							
	Rated Load	24.3	24.3							
	Service Factor	30.3	30.3							
Watts:	Rated Load	550	549							
KVA Code:	M	M	M							
Temperature Rise:	@ Rated Load	TEAO	TEAO							
T	@ Service Factor	-	-							
Thermal Protector:	Trip Temp (°C)	-	-			+				
Winding Material:	Start (Auxiliary) Run (Main)	Cu	Cu Cu	-		+		1		
Capacitor(s):	Start (MFD / Volts)	Cu	Cu		NA					
Capacitor(3).	No. of Start Capacitors				13/3					
	Run (MFD / Volts)	NA NA								
	No. of Run Capacitors									
LOW CDEED BED	FORMANCE DATA:									
	FORMANCE DATA.									
HP: Poles:										
Volts:			<u> </u>	Τ		1				
HZ:										
Efficiency:	@ Rated Load									
Power Factor:	@ Rated Load									
Amps:	@ No Load									
-	@ Rated Load									
	@ Service Factor									
	@ Locked Rotor									
Torques:	BreakDown		ļ			1				
	Locked Rotor		 	1		+		+		
	Pull-Up Rated Load	+		+		+		+		
	Service Factor	+		+		+		+		
Watts:	@ Rated Load	+	-	+		+				
Temperature Rise:	@ Rated Load			1		1				
. omperature itise.	@ Service Factor			1		1				
	1									
						DRAWING		E 1 of 1		



4\/D\/0	DC	REV.										
1YBV8	BG	-										
					Davi	on Ma	nufacti	wing Con	nony			
					Dayt	on Ma	Hulacu	ıring Con	прапу			
	Motor Des						Test Co					
	Model:	S063JGE816	9 1YBV88	3G	Test Type:	Start		Run Ca		0		
	Motor ID:				Test Number:	2		Start Ca		Oμfd		
	Poles:	4			Poles:	4		Enviror	nment:			
	Volts:	115/230			Volts:	115		Tested:		8/6/2015 1:39:	33 PM	
	Frequency:	60			Hz:	60		Tested	By:	Sharp, Gerald		
	HP:	1/2			Rotation:	REV		Gear R		1:1		
	Speed:	1725			Special Cond:			Bearing	Friction:	-0.27 Oz-Ft		
	Phase:	1			Speed Conn:					: -2.14 Oz-Ft		
	Protector:	MEJ38AR			TestBoard:	Amtps Po	erformance	Fixture #1	,			
Specia	al Points	Vline(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	нр	Eff(%)	PF (%)	
		115.0	44.60	35.75	10.012	3712	1	27.70	0.000	0.0	72.4	
PUT C	Z-FT	115.0	44.58	35.76	9.984	3709	0	27.56	0.000	0.0	72.3	
		115.0 115.0	44.53 44.35	35.75 35.70	9.919 9.683	3705 3693	31 174	28.47 27.94	0.011	0.2 1.2	72.3 72.4	
		115.0	44.10	35.55	9.483	3681	308	30.86	0.113	2.3	72.6	
		115.0	43.76	35.37	9.220	3665	433	33.98	0.175	3.6	72.8	
		115.0	43.36	35.16	8.895	3641	548	38.24	0.250	5.1	73.0	
		115.0 115.0	43.21 42.91	35.06 34.65	8.642 8.592	3636 3651	656 755	39.08 41.37	0.305	6.3 7.6	73.2 74.0	
		115.0	42.31	34.08	8.467	3641	849	45.77	0.462	9.5	74.8	
		115.0	41.62	33.44	8.313	3618	934	50.71	0.564	11.6	75.6	
		115.0	40.86	32.75	8.159	3588	1014	54.99	0.664	13.8	76.4	
		115.0	40.04	32.00	8.023	3549	1087	57.82	0.748	15.7	77.1	
		115.0 115.0	39.16 38.23	31.20 30.34	7.905 7.809	3505 3453	1156 1218	60.93 63.26	0.838	17.8 19.8	77.8 78.6	
		115.0	37.24	29.43	7.746	3394	1276	64.86	0.985	21.6	79.3	
		115.0	36.21	28.47	7.719	3332	1328	65.75	1.040	23.3	80.0	
		115.0	35.13	27.46	7.721	3259	1377	66.30	1.087	24.9	80.7	
		115.0 115.0	34.04	26.42 25.36	7.763 7.838	3182	1421 1462	65.77 64.69	1.113	26.1 27.1	81.3 81.9	
		115.0	32.93 31.80	24.28	7.945	3102 3015	1500	62.92	1.124	27.1	82.4	
		115.0	30.65	23.18	8.080	2920	1534	60.67	1.108	28.3	82.9	
		115.0	29.53	22.08	8.242	2825	1566	57.06	1.063	28.1	83.2	
		115.0	28.41	20.97	8.418	2728	1595	53.40	1.014	27.7	83.5	
		115.0 115.0	27.29 26.20	19.85 18.75	8.618 8.833	2626 2525	1621 1645	49.28 44.02	0.951	27.0 25.5	83.7 83.8	
		115.0	25.11	17.63	9.059	2420	1668	38.39	0.762	23.5	83.8	
		115.0	24.04	16.53	9.285	2314	1690	32.91	0.662	21.3	83.7	
		115.0	22.97	15.41	9.524	2204	1711	26.56	0.541	18.3	83.4	
		115.0 115.0	21.91 20.85	14.27 13.09	9.784 10.041	2093	1729 1749	19.11 11.72	0.393	14.0 9.2	83.1 82.4	
		115.0	19.76	11.86	10.320	1976 1855	1768	3.26	0.068	2.8	81.6	
		115.0	19.34	11.35	10.436	1805	1775	0.00	0.000	0.0	81.2	
										DRAWING NO.	PAGE 1 of 8	
											1YBV8BG	

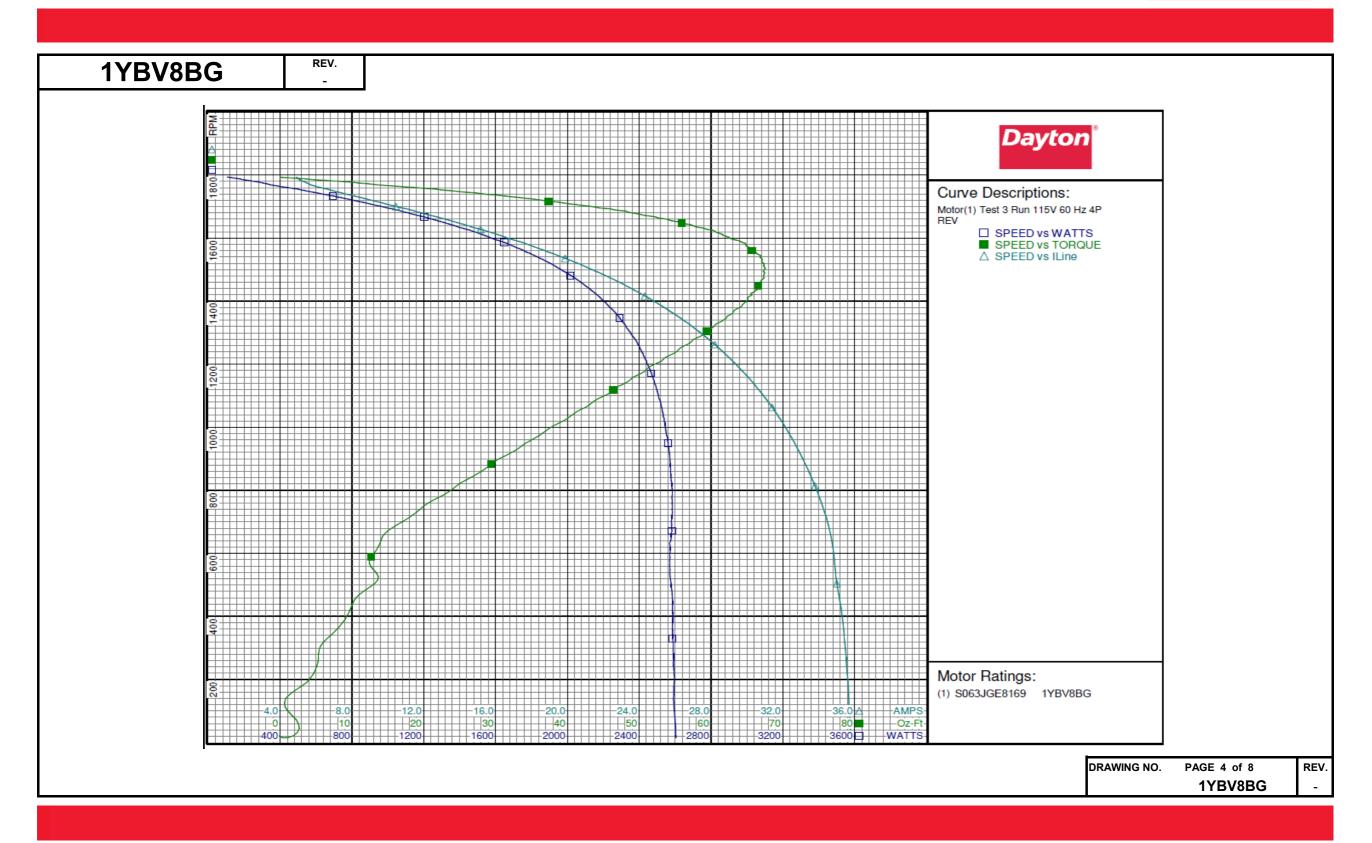






YBV8BG	REV.									
	·			Da	yton Ma	nufactu	ring Con	npany		
Motor Des	scription					Test Con	ditions			
Model:	S063JGE8169	1YBV8BG		Test Type:	Run		Run Ca	ıp:	0	
Motor ID:				Test Numbe	r. 3		Start C	ap:	0μfd	
Poles:	4			Poles:	4		Enviro		-	
Volts:	115/230			Volts:	115		Tested:	:	8/6/2015 1:38	3:31 PM
Frequency:	60			Hz:	60		Tested	By:	Sharp, Gerald	1
HP:	1/2			Rotation:	REV		Gear R		1:1	
Speed:	1725			Special Con			Bearing	g Friction:	-0.31 Oz-Ft	
Phase:	1			Speed Conn					:-2.21 Oz-Ft	
Protector:	MEJ38AR			TestBoard:		erformance				
Special Points		Iline(A)	Watts		Tq(Oz-ft)	HP	Eff(%)	PF(%)		
	115.0	4.90	105	1793	0.00	0.000	0.0	18.6		
	115.0 115.0	5.41 6.65	285 499	1777 1755	10.02 21.75	0.212 0.454	55.6 67.9	45.8 65.3		
0.5 HP	115.0	6.96	544	1749	24.01	0.500	68.5	68.0		
24.3 OZ-FT	115.0	7.00	550	1749	24.30	0.506	68.7	68.3		
0.625 HP 30.4 OZ-FT	115.0	7.93	671 674	1736	30.25 30.40	0.625	69.5	73.5		
30.4 OZ-FT	115.0 115.0	7.95 7.98	676	1735 1735	30.56	0.628 0.631	69.6 69.6	73.6 73.7		
	115.0	9.42	845	1715	38.28	0.781	69.0	78.0		
	115.0	10.91	1011	1694	45.27	0.913	67.3	80.6		
	115.0 115.0	12.41 13.96	1169 1324	1671 1647	50.89 55.95	1.012	64.6 61.8	81.9 82.4		
	115.0	15.49	1470	1622	60.50	1.168	59.3	82.5		
	115.0	17.01	1607	1593	63.40	1.203	55.8	82.1		
	115.0 115.0	18.54 20.03	1741 1862	1564 1532	65.48 67.12	1.219	52.2 49.0	81.7 80.8		
BDT OZ-FT	115.0	21.22	1954	1503	67.55	1.209	46.1	80.1		
	115.0	21.50	1973	1496	67.26	1.198	45.3	79.8		
	115.0	22.96	2078	1458	66.91	1.161	41.7	78.7		
	115.0 115.0	24.32 25.64	2171 2254	1416 1370	65.43 63.22	1.103	37.9 34.1	77.6 76.4		
	115.0	26.91	2325	1321	60.45	0.950	30.5	75.1		
	115.0	28.10	2389	1267	57.08	0.861	26.9	74.0		
	115.0 115.0	29.21 30.26	2441 2484	1209 1146	53.07 48.54	0.764 0.662	23.3 19.9	72.7 71.4		
	115.0	31.21	2519	1077	43.41	0.557	16.5	70.2		
	115.0	32.09	2544	1004	38.05	0.455	13.3	68.9		
	115.0	32.88	2565	925	32.69	0.360	10.5	67.8		
	115.0 115.0	33.59 34.21	2577 2584	840 749	26.53 19.88	0.265	7.7 5.1	66.7 65.7		
	115.0	34.69	2578	652	14.19	0.110	3.2	64.6		
	115.0	34.92	2571	548	12.99	0.085	2.5	64.0		
	115.0 115.0	35.20 35.45	2585 2587	437 318	10.01 5.99	0.052 0.023	1.5 0.7	63.9 63.5		
	115.0	35.63	2595	192	3.75	0.009	0.2	63.3		
	115.0	35.74	2600	58	2.55	0.002	0.1	63.3	<u>-</u>	
									DRAWING NO.	PAGE 3 of
										1YBV8E

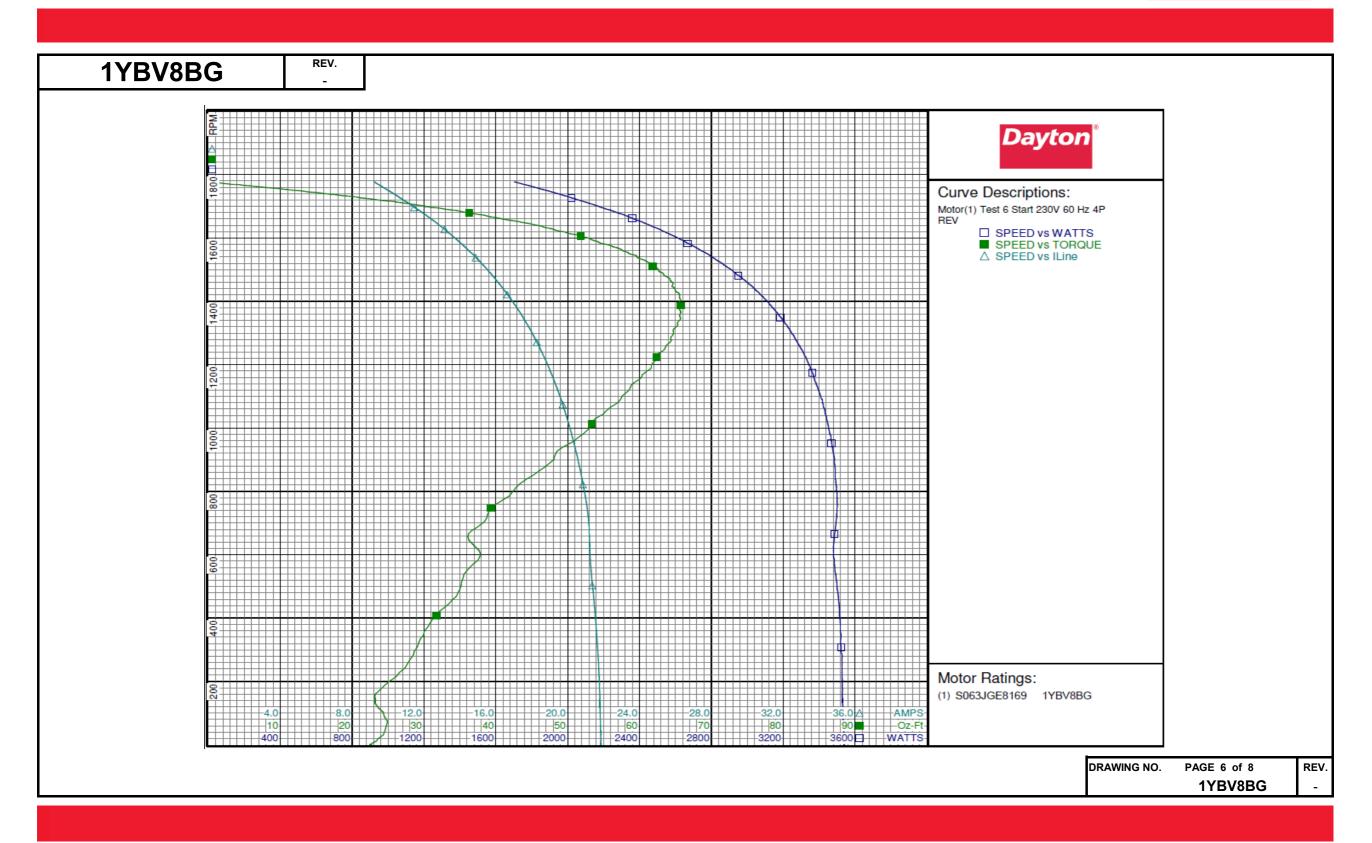






/BV8BG	REV.										
					Dayt	on Ma	nufactu	ring Con	npany		
Motor	Description	on					Test Cor	nditions			
Model:		JGE816	9 1YBV8E	3G	Test Type:	Start		Run Ca	p:	0	
Motor I	D:				Test Number:	6		Start Ca	-	0μfd	
Poles:	4				Poles:	4		Enviror		•	
Volts:	115/2	230			Volts:	230		Tested:		8/6/2015 2:54:	35 PM
Frequen					Hz:	60		Tested		Sharp, Gerald	
HP:	1/2				Rotation:	REV		Gear R		1:1	
Speed:	1725				Special Cond:	TCL V				-0.24 Oz-Ft	
Phase:	1 / 20				Speed Conn:					:-1.92 Oz-Ft	
Protecto	or: MEJ	38AR			TestBoard:	Amtps F	erformance	Fixture #1	ge Porque	1.92 02-11	
Special Point	ts Vli	ine (V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
		230.0	21.86	14.191	9.072	3542	1	22.48	0.000	0.0	70.5
PUT OZ-FT		230.0	21.85 21.83	14.192 14.213	9.066 8.994	3542 3537	2 31	22.45 24.30	0.000	0.0	70.5 70.4
		230.0	21.78	14.219	8.799	3530	173	23.87	0.049	1.0	70.5
		230.0	21.65	14.143	8.624	3523	308	29.05	0.107	2.3	70.7
		230.0	21.49	14.075	8.389	3512	433	32.80	0.169	3.6	71.0
		230.0	21.30	14.008 13.920	8.090 7.866	3488 3484	549 656	35.92 36.09	0.235	5.0 6.0	71.2 71.4
		230.0	21.06	13.618	7.830	3501	756	39.83	0.359	7.6	72.3
		230.0	20.76	13.297	7.735	3491	849	45.02	0.455	9.7	73.1
		230.0	20.42	12.966	7.621	3475	934	48.98	0.545	11.7	74.0
		230.0	20.05 19.64	12.614 12.240	7.508 7.407	3448 3417	1014 1088	53.34 57.29	0.644	13.9 16.2	74.8 75.7
		230.0	19.20	11.842	7.322	3373	1156	60.09	0.827	18.3	76.4
		230.0	18.73	11.418	7.265	3329	1218	62.43	0.905	20.3	77.3
		230.0	18.24	10.982	7.234	3273	1276	64.39	0.978	22.3	78.0
		230.0	17.72 17.18	10.524 10.062	7.235	3210	1329 1377	65.25 65.50	1.032	24.0	78.8
		230.0	16.64	9.593	7.268 7.330	3144 3072	1421	65.54	1.074	25.5 26.9	79.6 80.3
		230.0	16.08	9.118	7.427	2993	1462	64.39	1.121	27.9	80.9
		230.0	15.51	8.647	7.544	2908	1500	62.62	1.118	28.7	81.5
		230.0	14.94	8.182	7.690	2819	1534	60.04	1.097	29.0	82.0
		230.0	14.38 13.81	7.735 7.299	7.855 8.036	2727 2628	1565 1594	57.26 53.23	1.067	29.2 28.7	82.5 82.7
		230.0	13.25	6.886	8.233	2530	1621	48.83	0.942	27.8	83.0
		230.0	12.71	6.504	8.440	2432	1646	44.47	0.871	26.7	83.2
		230.0	12.17	6.143	8.661	2331	1668	38.81	0.771	24.7	83.3
		230.0	11.61	5.804 5.509	8.878 9.111	2215 2109	1690 1711	32.88 26.72	0.662	22.3 19.3	83.0 82.7
		230.0	10.56	5.256	9.353	2000	1731	19.95	0.411	15.3	82.3
		230.0	10.03	5.027	9.594	1886	1749	12.55	0.261	10.3	81.8
		230.0	9.49	4.849	9.857	1765	1768	4.29	0.090	3.8	80.9
		230.0	9.22	4.785	9.999	1702	1777	0.00	0.000	0.0	80.3
										DRAWING NO	
											1YBV

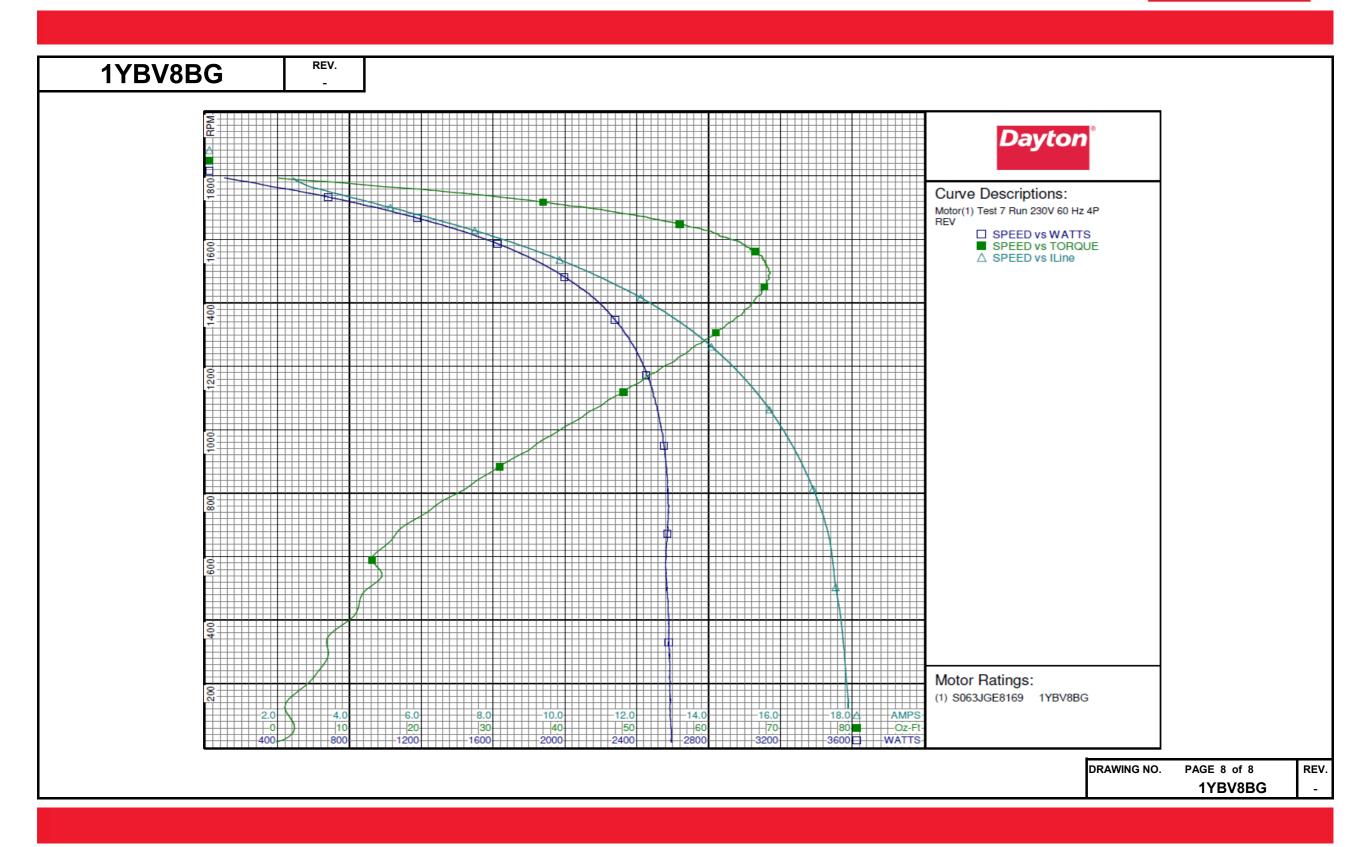






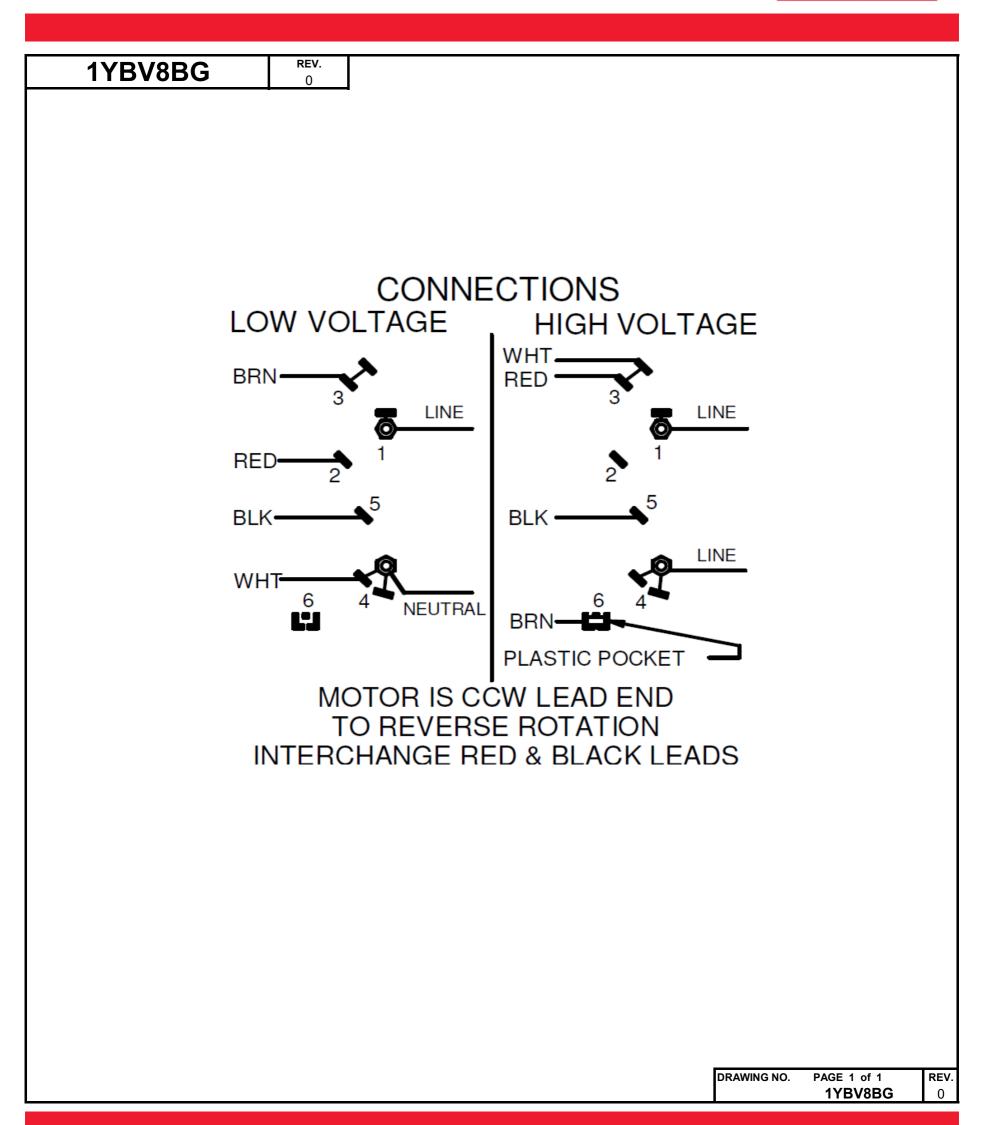
1YBV8BG	REV.									
<u> </u>										
				Day	ton Ma	nufactu	ring Con	ıpany		
Motor Desc	cription					Test Con	ditions			
Model:	S063JGE8169	1YBV8BG		Test Type:	Run		Run Ca		0	
Motor ID:				Test Number			Start Ca		Oμfd	
Poles:	4			Poles:	4		Environ	ment:		
Volts:	115/230			Volts:	230		Tested:		8/6/2015 2:5	
Frequency:	60			Hz:	60		Tested 1		Sharp, Gera	ld
HP:	1/2			Rotation:	REV		Gear Ra		1:1	
Speed:	1725			Special Cond					-0.29 Oz-Ft	
Phase:	1			Speed Conn:				e Torque:	-2.09 Oz-Ft	
Protector:	MEJ38AR			TestBoard:	Amtps F	Performance	Fixture #1			
Special Points	Vline(V)	Iline(A)	Watts	RPM T	q(Oz-ft)	HP	Eff(%)	PF(%)		
	230.0	2.436	103	1794	0.00	0.000	0.0	18.4		
	230.0 230.0	2.678 3.277	279 490	1776 1754	9.61 21.18	0.203 0.442	54.3 67.4	45.4 65.0		
0.5 HP	230.0	3.463	543	1749	24.02	0.500	68.7	68.1		
24.3 OZ-FT	230.0	3.486	549	1748	24.30	0.506	68.7	68.5		
0 625 #	230.0	3.935	666	1735	30.11	0.622	69.7	73.6		
0.625 HP 30.4 OZ-FT	230.0 230.0	3.951 3.964	669 672	1735 1734	30.26 30.40	0.625 0.628	69.7 69.6	73.7 73.7		
30.4 02 11	230.0	4.622	826	1715	37.64	0.769	69.4	77.7		
	230.0	5.367	993	1694	45.02	0.908	68.2	80.4		
	230.0	6.106	1148	1671 1648	50.98	1.014	65.9	81.7		
	230.0 230.0	6.860 7.644	1298 1447	1622	55.98 60.52	1.098	63.1 60.3	82.3 82.3		
	230.0	8.408	1586	1594	64.09	1.216	57.2	82.0		
	230.0	9.164	1716	1565	66.06	1.231	53.5	81.4		
	230.0 230.0	9.926 10.668	1839 1955	1532 1497	67.85 68.47	1.238	50.2 46.5	80.6 79.7		
BDT OZ-FT	230.0	10.742	1965	1493	68.57	1.219	46.3	79.5		
	230.0	11.387	2059	1458	68.07	1.182	42.8	78.6		
	230.0	12.109	2158	1416	66.60	1.123	38.8	77.5		
	230.0 230.0	12.775 13.415	2240 2315	1371 1321	64.93 62.11	1.060 0.977	35.3 31.5	76.2 75.0		
	230.0	14.023	2378	1267	58.25	0.879	27.6	73.7		
	230.0	14.592	2433	1209	54.69	0.787	24.1	72.5		
	230.0 230.0	15.120 15.605	2474 2509	1146 1078	50.17 45.17	0.684	20.6 17.2	71.1 69.9		
	230.0	16.046	2536	1005	39.65	0.474	14.0	68.7		
	230.0	16.448	2557	925	34.10	0.376	11.0	67.6		
	230.0	16.811	2570	840	27.74	0.277	8.1	66.5		
	230.0 230.0	17.125 17.373	2575 2570	749 651	15.82	0.190 0.123	5.5 3.6	65.4 64.3		
	230.0	17.491	2563	547	14.51	0.095	2.8	63.7		
	230.0	17.640	2574	437	11.20	0.058	1.7	63.4		
	230.0 230.0	17.759 17.851	2578 2583	318 192	6.89 3.77	0.026	0.8	63.1 62.9		
	230.0	17.900	2591	58	2.34	0.002	0.0	62.9		
									DRAWING NO.	PAGE 7 of 8
										1YBV8BG





Wiring Diagram





Dayton

HP: 1/2

SF: 1.25

KVA CODE: M

ENCL: TEAO

AGRICULTURAL FAN MOTOR

VOLTS: 115/230 AMPS: 7.6/3.8 PH: 1

PROT. CODE: 04401

Part 1YBV8BG

BRN -

RED

WHT

RPM: 1725 **HZ**: 60 **DUTY: CONT FR**: 56

INS CL: B

AMB: 40 °C SFA: 8.2/4.1 **Electrical Connections or Changes**

LOW VOLTAGE

CONNECTIONS HIGH VOLTAGE

Disconnect Power Before Making Any

AVG. F.L.

FFF

LINE

WHT

RED

BLK

E37403



THERMALLY PROTECTED: AUTO

MTR REF: S63KZJGE-8169

NEUTRAL BRN-INSULATED POCKET MOTOR IS CCW LEAD END

TO REVERSE ROTATION INTERCHANGE RED & BLK LEADS

LINE

LINE

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