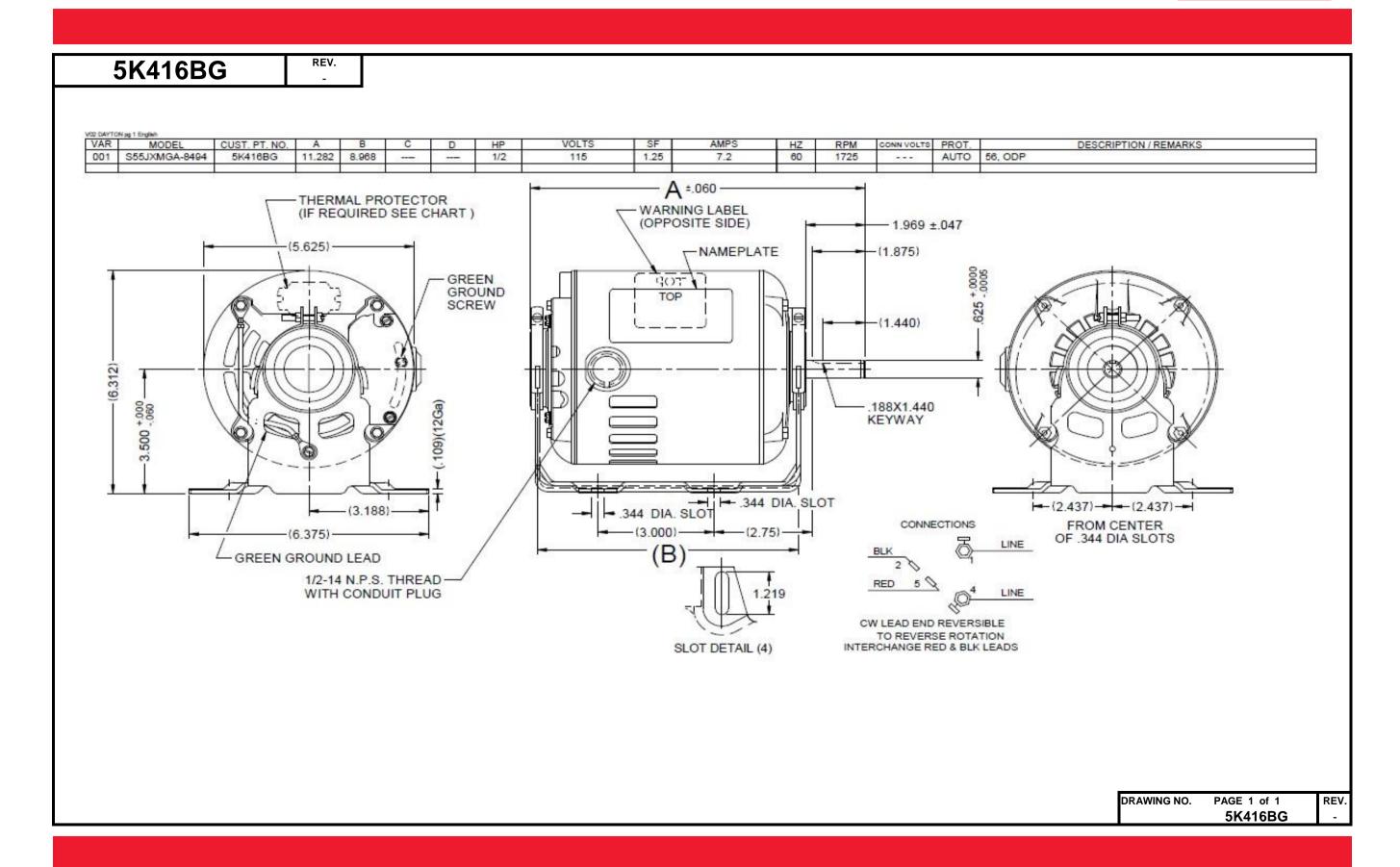
Dimensional Drawing





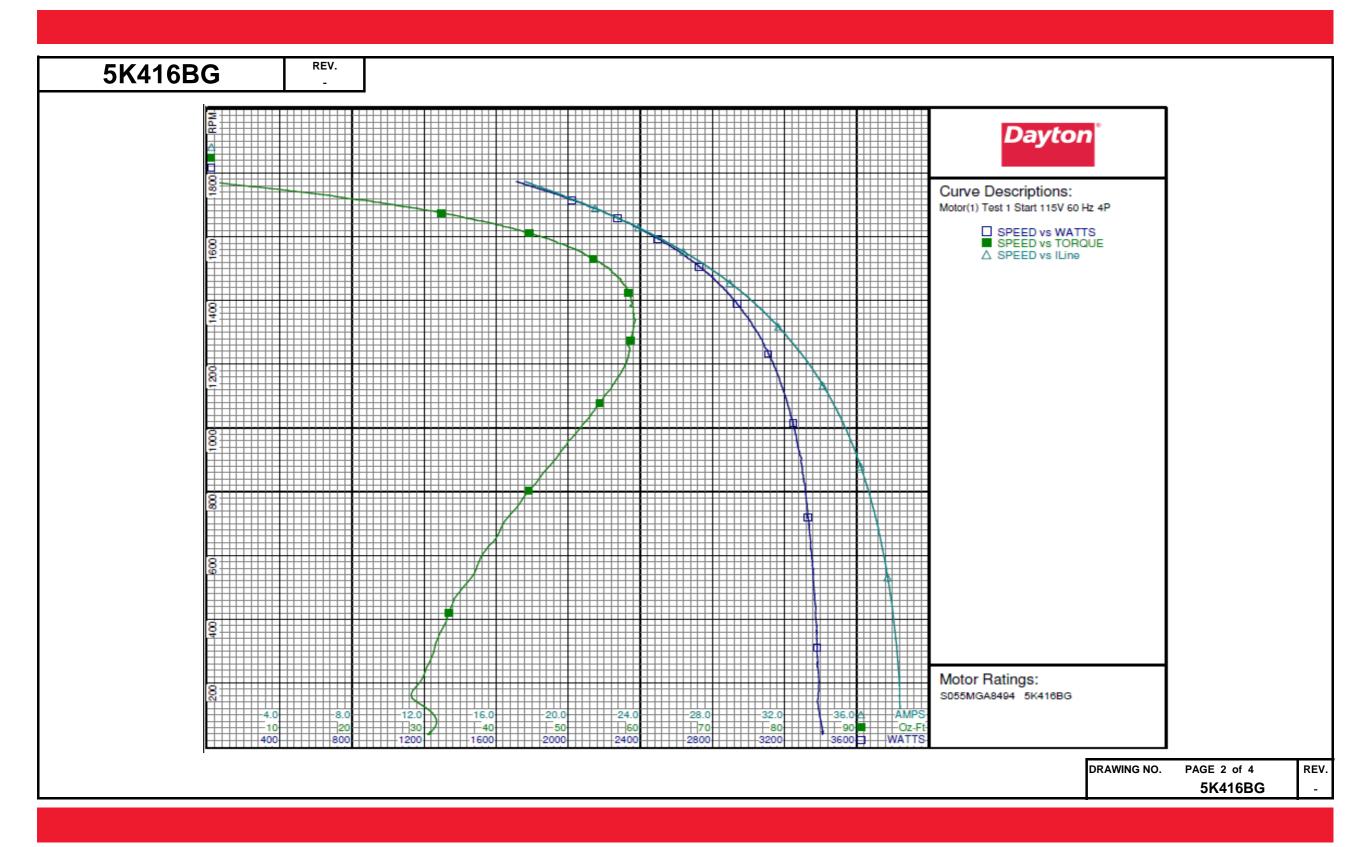


5K416BG										
	MOTO	OR PERFO	SMANCE	-						
	liio i v		(IIIAITO)							
HP:	1/2									
Poles:	4									
Ambient (°C)	60									
Altitude (FASL):										
No. of Speeds:	1									
Volts:	115V	115V								
HZ:	60 1.25	60								
Service Factor: Efficiency:	@ Rated Load					+				
Power Factor:	@ Rated Load					+	+			
Amps:	@ No Load						+			
7 unpor	@ Rated Load	6.8								
	@ Service Factor	7.9								
	@ Locked Rotor	29.1								
RPM:	@ Rated Load	1731								
Torques:	Breakdown	53.5								
Oz.Ft. / Lb.In.	Locked Rotor Pull-Up	30.9								
(Circle One)	Rated Load	28.2 24.3								
	Service Factor	30.7				 				
Watts:	@ Rated Load	551				 	+			
KVA Code:	(c) Francia Zoda	001								
Temperature Rise:	@ Rated Load	36.8								
	@ Service Factor	54.6								
Thermal Protector:	Trip Temp (°C)	129								
Winding Material:	Start (Auxiliary)	CU								
	Run (Main)			CU						
Capacitor(s):	Start (MFD / Volts)			N/A						
	No. of Start Capacitors			NI/A						
	Run (MFD / Volts) N/A No. of Run Capacitors									
LOW OBEED BED										
	FORMANCE DATA:	_								
HP: Poles:										
Volts:						1	Т			
HZ:							+			
Efficiency:	@ Rated Load									
Power Factor:	@ Rated Load									
Amps:	@ No Load									
•	@ Rated Load									
	@ Service Factor									
	@ Locked Rotor									
Torques:	Breakdown									
Oz.Ft. / Lb.ln.	Locked Rotor						 			
(Circle One)	Pull-Up Rated Load	+ +			+	+	+			
	Service Factor	+ +				+	+			
Watts:	@ Rated Load					1	+			
Temperature Rise:	@ Rated Load	 			1	1	†			
	@ Service Factor									



5K416BG	REV. -										
				Dayt	on Mai	ıufactı	ıring Con	npany			
Motor Des	cription				,	Test Co	nditions				
Model:		494 5K416E	3G	Test Type:	Start		Run Ca		0		
Motor ID:				Test Number:	1		Start Ca		0μfd		
Poles:	4			Poles:	4	Environment:					
Volts:	115			Volts:	115		Tested:		12/16/2010 9:12:20 AM		
Frequency:	60			Hz:	60		Tested		Sharp, Gerald		
HP:	1/2 1725			Rotation:			Gear Ra		1:1		
Speed: Phase:	1723			Special Cond: Speed Conn:					: -0.41 Oz-Ft : -1.31 Oz-Ft		
Protector:	MEJ:			TestBoard:	Amtps Pe	rformance	e Fixture #4	ge 101que	1,31 Oz-1·t		
Special Points	Vline (V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	
	115.0 115.0	38.59 38.54	29.11 29.12	10.835 10.723	3408 3410	46 54	30.86 31.30	0.017	0.4	76.8 76.9	
PUT OZ-FT	115.0	38.37	29.07	10.723	3386	164	28.21	0.055	1.2	76.7	
	115.0	38.37	29.08	10.515	3390	176	28.44	0.060	1.3	76.8	
	115.0 115.0	38.18 37.84	28.96 28.72	10.260 9.993	3380 3364	338 491	31.87 35.13	0.128 0.205	2.8 4.6	77.0 77.3	
	115.0	37.40	28.37	9.716	3345	630	39.00	0.292	6.5	77.8	
	115.0	36.91	27.96	9.476	3324	751	42.89	0.384	8.6	78.3	
	115.0 115.0	36.33 35.69	27.47 26.89	9.245 9.030	3298 3269	861 958	46.60 49.96	0.478 0.570	10.8 13.0	78.9 79.6	
	115.0	34.98	26.26	8.838	3231	1047	53.32	0.665	15.3	80.3	
	115.0	34.21	25.58	8.657	3188	1127	56.03	0.751	17.6	81.0	
	115.0 115.0	33.40 32.53	24.86 24.03	8.509 8.420	3140 3087	1197 1260	57.84 58.22	0.824	19.6 21.1	81.7 82.5	
	115.0	31.66	23.23	8.345	3028	1317	59.10	0.926	22.8	83.2	
	115.0 115.0	30.90 29.86	22.51 21.53	8.314 8.313	2972 2900	1361 1415	58.98 58.63	0.956 0.988	24.0 25.4	83.6 84.4	
	115.0	28.90	20.62	8.338	2823	1458	57.36	0.996	26.3	85.0	
	115.0	28.01	19.78	8.394	2751	1494	55.91	0.994	27.0	85.4	
	115.0 115.0	27.12 26.23	18.91 18.06	8.476 8.578	2676 2599	1528 1559	53.78 51.17	0.978	27.3 27.3	85.8 86.2	
	115.0	25.35	17.21	8.703	2520	1586	47.96	0.906	26.8	86.4	
	115.0	24.53	16.40	8.836	2443	1610	44.61	0.855	26.1	86.6	
	115.0 115.0	23.65 22.84	15.53 14.73	8.990 9.145	2364 2286	1635 1655	40.82 36.46	0.794 0.719	25.1 23.4	86.9 87.0	
	115.0	22.01	13.89	9.317	2201	1676	32.00	0.638	21.6	87.0	
	115.0 115.0	21.19 20.39	13.03 12.19	9.500 9.695	2114 2028	1694 1713	27.00 21.92	0.545	19.2 16.4	86.8	
	115.0	19.60	11.36	9.896	1944	1731	16.07	0.447	12.7	86.5 86.2	
	115.0	18.80	10.44	10.117	1850	1748	9.96	0.207	8.4	85.6	
	115.0 115.0	17.92 17.59	9.46 9.10	10.367 10.463	1750 1711	1766 1772	2.56 0.00	0.054	2.3 0.0	84.9 84.6	
									DRAWING NO.	PAGE 1 of 4	
										5K416B	

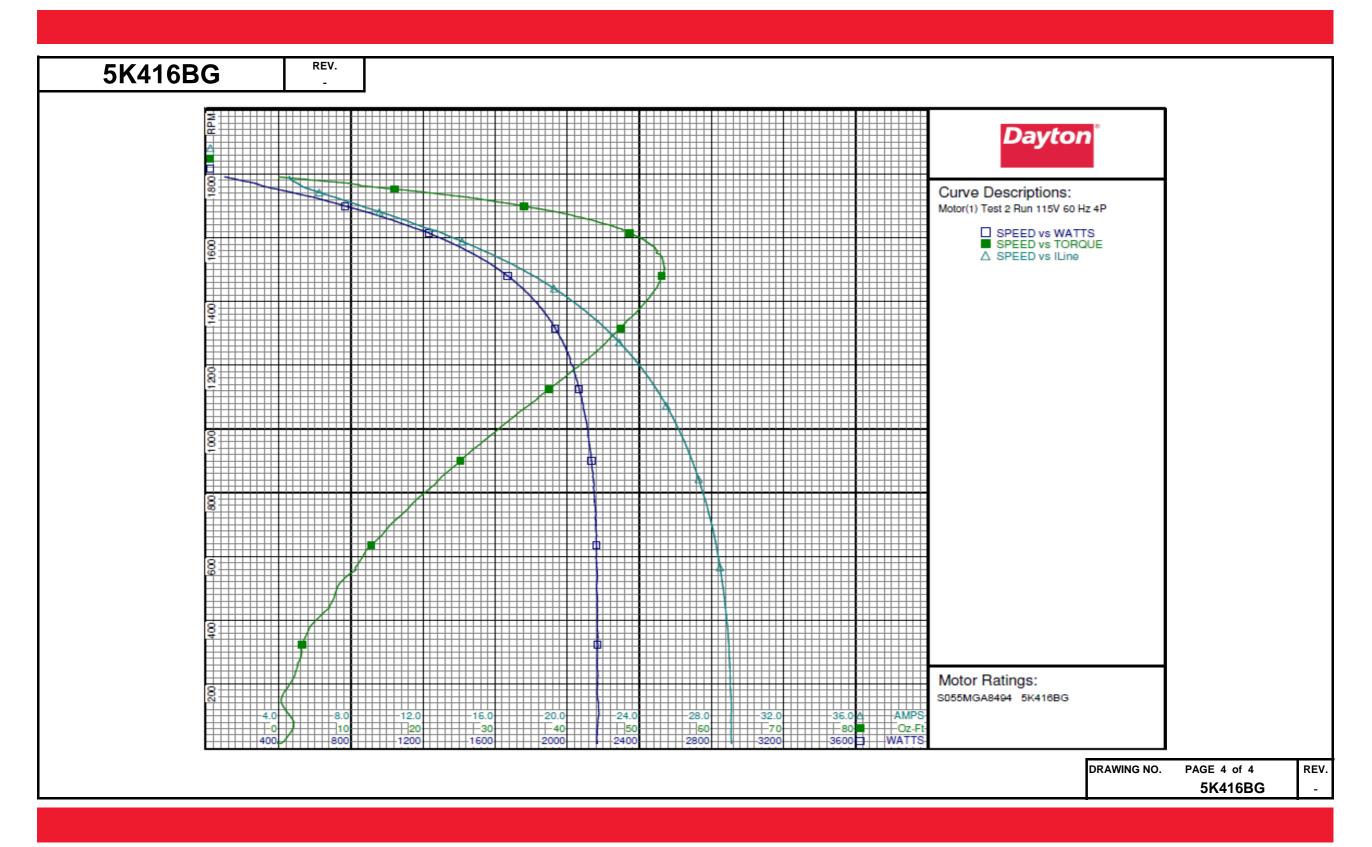






K416BG	REV.										
	Dayton Manufacturing Company										
Motor Des	cription					Test Con	ditions				
Model:		94 5K416BG		Test Type:	Run		Run Ca	ıp:	0		
Motor ID:				Test Number			Start C		0µfd		
Poles:	4			Poles:	4		Enviro				
Volts:	115			Volts:	115		Tested		12/16/2010 9:1	11.25 AM	
Frequency:	60			Hz:	60		Tested By:		Sharp, Gerald		
HP:	1/2			Rotation:	00				1:1		
	1725				1.		Gear Ratio: Bearing Friction:				
Speed:	1/23			Special Cond							
Phase:	MET			Speed Conn:				ge 1 orque	: -1.14 Oz-Ft		
Protector:	MEJ			TestBoard:	Amtps P	erformance	Fixture #4				
Special Points	Vline (V)	Iline(A)	Watts	RPM T	q(Oz-ft)	HP	Eff(%)	PF(%)			
	115.0	4.57	99	1791	0.00	0.000	0.0	18.7			
	115.0 115.0	4.73 5.12	186 284	1779 1767	4.97 10.53	0.105 0.221	42.2 58.2	34.2 48.2			
	115.0	5.76	398	1750	16.62	0.346	65.0	60.0			
	115.0	6.61	523	1734	22.98	0.474	67.7	68.8			
24.3 OZ-FT	115.0	6.81	551	1731	24.30	0.501	67.8	70.4			
0.5 HP	115.0	6.80	550	1731	24.27	0.500	67.8	70.4			
0.625 HP	115.0 115.0	7.64 7.94	658 693	1716 1711	29.14 30.69	0.596 0.625	67.5 67.3	74.8 75.9			
0.023 III	115.0	8.85	799	1693	35.09	0.707	66.0	78.5			
	115.0	10.31	959	1667	41.04	0.814	63.4	80.9			
	115.0	12.14	1148	1630	46.96	0.912	59.2	82.3			
	115.0 115.0	13.46 15.25	1272 1434	1604 1561	49.64 52.34	0.948	55.6 50.6	82.2 81.8			
	115.0	17.13	1591	1511	53.40	0.960	45.0	80.7			
BDT OZ-FT	115.0	17.47	1618	1500	53.47	0.955	44.0	80.5			
	115.0	18.81	1720	1456	52.70	0.914	39.6	79.5			
	115.0	20.27	1820	1401	50.96	0.850	34.8	78.1			
	115.0 115.0	21.54 22.67	1901 1964	1344 1284	48.50 45.92	0.776 0.702	30.4 26.7	76.7 75.3			
	115.0	23.68	2016	1222	43.01	0.626	23.2	74.0			
	115.0	24.61	2053	1153	39.16	0.537	19.5	72.5			
	115.0	25.43	2085	1080	35.03	0.451	16.1	71.3			
	115.0 115.0	26.13 26.75	2111 2130	1005 925	30.71 26.46	0.367 0.291	13.0 10.2	70.3 69.2			
	115.0	27.30	2145	842	22.32	0.224	7.8	68.3			
	115.0	27.78	2156	752	18.03	0.161	5.6	67.5			
	115.0	28.19	2160	656	13.77	0.107	3.7	66.6			
	115.0 115.0	28.51 28.76	2166 2166	555 449	10.60 7.13	0.070	2.4 1.3	66.1 65.5			
	115.0	28.95	2167	334	3.41	0.014	0.5	65.1			
	115.0	29.04	2167	213	1.92	0.005	0.2	64.9			
	115.0	29.09	2170	92	1.81	0.002	0.1	64.9			
									DRAWING NO.	PAGE 3 of	
										5K416	





Wiring Diagram



REV. 5K416BG CONNECTIONS LINE BLK LINE RED CW LEAD END REVERSIBLE TO REVERSE ROTATION INTERCHANGE **RED & BLACK LEADS** PAGE 1 of 1 5K416BG

Dayton®

BELT DRIVE FAN & BLOWER MOTOR



SF: 1.25

KVA CODE: H

Part 5K416BG

AMPS: 7.2 PH: 1 **RPM**: 1725 **HZ**: 60 DUTY: CONT FR: 56

> INS CL: B AMB: 60 ℃

ENCL: ODP SFA: 8.0

THERMALLY PROTECTED: AUTO MTR REF: S55JXMGA-8494







CONNECTIONS

Disconnect Power Before Making Any

Electrical Connections or Changes



LINE





CW LEAD END REVERSIBLE TO REVERSE BOTATION INTERCHANGE RED & BLACK LEADS

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

Made in Mexico