

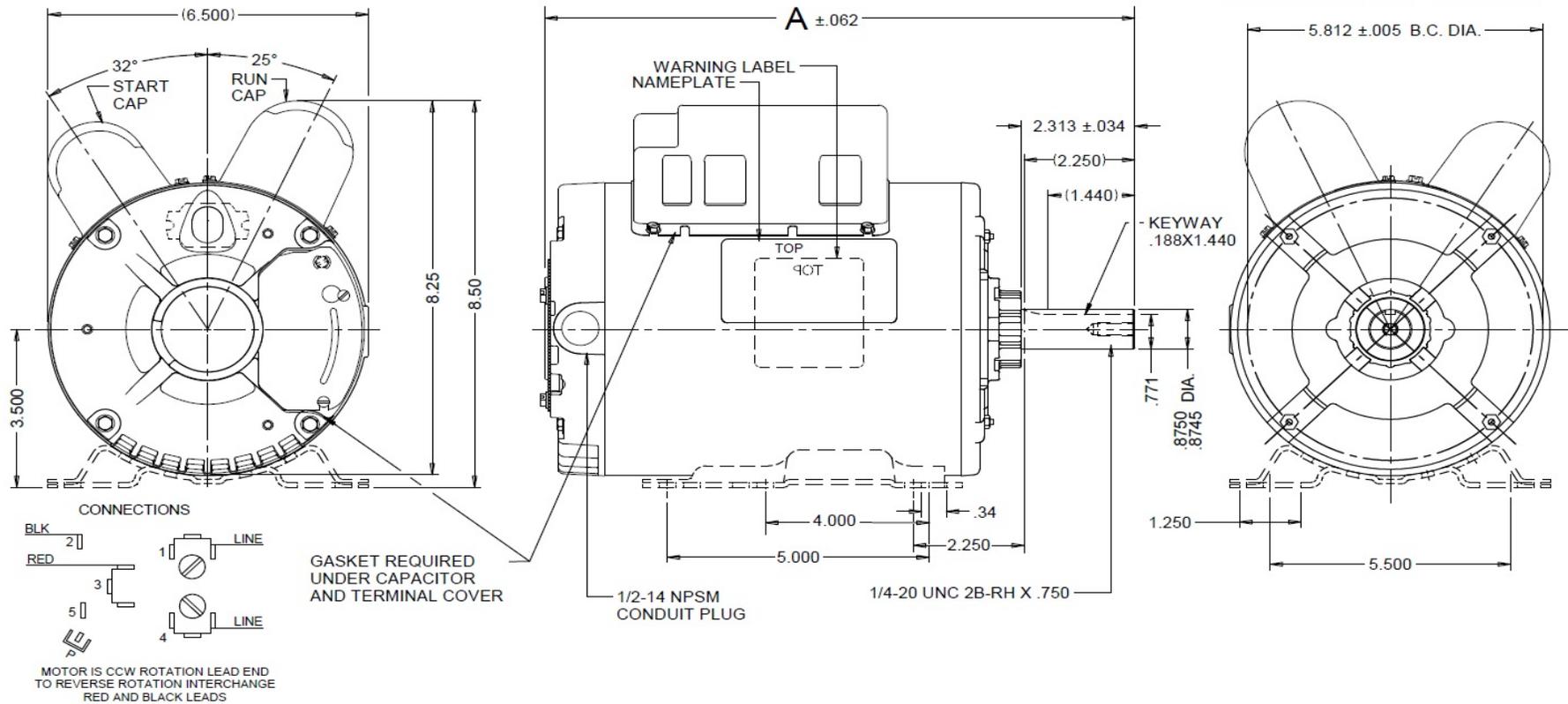
# Dimensional Drawing

## 4K062BG

REV.  
-

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	BASE	DESCRIPTION / REMARKS
001	T63KZDAT-2244	4K062BG	13.74	---	---	---	3	230	1	14.9	60	3450	---	AUTO	YES	145TZ, TEAO, GREEN BALL BEARING

KEY AND INSTRUCTION BOOK  
SHIPPED AS A KIT IN A PLASTIC BAG



DRAWING NO. PAGE 1 of 1 REV.  
4K062BG -

<b>4K062BG</b>	REV.	
	-	
<b>MOTOR PERFORMANCE</b>		
<b>HP:</b>	3	
<b>Poles:</b>	2	
<b>No. of Speeds:</b>	1	
<b>Volts:</b>	230	230
<b>HZ:</b>	60	60
<b>Service Factor:</b>	1	
<b>Efficiency:</b>	@ Rated Load	79.9
<b>Power Factor:</b>	@ Rated Load	90.4
<b>Amps:</b>	@ No Load	
	@ Rated Load	13.6
	@ Service Factor	13.6
	@ Locked Rotor	83
<b>RPM:</b>	@ Rated Load	3483
<b>Ambient (°C):</b>	50	
<b>Altitude (FASL):</b>		
<b>Torques:</b>	Breakdown	171.87
	Locked Rotor	104
	Pull-Up	80.3
	Rated Load	73
	Service Factor	73
<b>Watts:</b>	Rated Load	2835
<b>KVA Code:</b>	H	H
<b>Temperature Rise:</b>	@ Rated Load	TEAO
	@ Service Factor	TEAO
<b>Thermal Protector:</b>	Trip Temp (°C)	TEAO
<b>Winding Material:</b>	Start (Auxiliary)	Cu
	Run (Main)	Cu
<b>Capacitor(s):</b>	Start (MFD / Volts)	519 mFd, 110V
	No. of Start Capacitors	
	Run (MFD / Volts)	30 mFd, 370V
	No. of Run Capacitors	
<b>LOW SPEED PERFORMANCE DATA:</b>		
<b>HP:</b>		
<b>Poles:</b>		
<b>Volts:</b>		
<b>HZ:</b>		
<b>Efficiency:</b>	@ Rated Load	
<b>Power Factor:</b>	@ Rated Load	
<b>Amps:</b>	@ No Load	
	@ Rated Load	
	@ Service Factor	
	@ Locked Rotor	
<b>Torques:</b>	Bead Down	
	Locked Rotor	
	Pull-Up	
	Rated Load	
	Service Factor	
<b>Watts:</b>	@ Rated Load	
<b>Temperature Rise:</b>	@ Rated Load	
	@ Service Factor	
DRAWING NO. PAGE 1 of 1		REV.
<b>4K062BG</b>		-

# Performance Data



**4K062BG**

REV.

-

## Dayton Manufacturing Company

### Motor Description

Model: T063DAT2244 4K062BG  
 Motor ID: 1 of 3  
 Poles: 2  
 Volts: 230  
 Frequency: 60  
 HP: 3  
 Speed: 3450  
 Phase: 1  
 Protector: CEJ36CX

### Test Conditions

Test Type: Start  
 Test Number: 2  
 Poles: 2  
 Volts: 230  
 Hz: 60  
 Rotation:  
 Special Cond: 2-Line  
 Speed Conn:  
 TestBoard: Amtps Performance Fixture #2  
 Run Cap: 30 µFd  
 Start Cap: 519 µFd  
 Environment:  
 Tested: 1/24/2006 9:45:38 AM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.80 Oz-Ft  
 Windage Torque: -3.36 Oz-Ft

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	83.38	14354	5	105.0	0.006	0.0	74.8
	230.0	83.35	14373	76	106.4	0.097	0.5	75.0
<b>PUT OZ-FT</b>	<b>230.0</b>	<b>83.42</b>	<b>14320</b>	<b>328</b>	<b>86.9</b>	<b>0.340</b>	<b>1.8</b>	<b>74.6</b>
	230.0	83.28	14306	355	87.5	0.370	1.9	74.7
	230.0	82.99	14363	633	100.9	0.761	4.0	75.2
	230.0	82.47	14396	883	114.7	1.205	6.2	75.9
	230.0	81.74	14406	1115	128.8	1.709	8.9	76.6
	230.0	81.04	14417	1331	141.8	2.248	11.6	77.4
	230.0	80.40	14446	1531	154.6	2.817	14.5	78.1
	230.0	80.33	14613	1717	168.2	3.439	17.6	79.1
	230.0	80.73	15094	1888	174.3	3.918	19.4	81.3
	230.0	77.63	14882	2047	183.4	4.468	22.4	83.3
	230.0	76.00	14670	2193	193.6	5.054	25.7	83.9
	230.0	74.59	14585	2330	200.7	5.567	28.5	85.0
	230.0	73.24	14527	2456	205.8	6.017	30.9	86.2
	230.0	71.90	14484	2570	210.0	6.425	33.1	87.6
	230.0	70.48	14363	2675	209.7	6.677	34.7	88.6
	230.0	69.05	14253	2773	210.6	6.951	36.4	89.8
	230.0	67.60	14133	2862	205.3	6.995	36.9	90.9
	230.0	66.14	13983	2941	197.3	6.906	36.8	91.9
	230.0	64.63	13801	3017	188.0	6.753	36.5	92.8
	230.0	40.46	8024	3082	167.2	6.135	57.0	86.2
	230.0	38.50	7765	3148	163.5	6.125	58.8	87.7
	230.0	35.13	7173	3207	163.1	6.226	64.8	88.8
	230.0	31.71	6544	3261	147.7	5.734	65.4	89.7
	230.0	28.31	5882	3309	138.6	5.459	69.2	90.3
	230.0	24.81	5188	3357	125.0	4.994	71.8	90.9
	230.0	21.38	4457	3399	115.0	4.656	77.9	90.6
	230.0	17.92	3725	3441	90.7	3.717	74.4	90.4
	230.0	14.51	2978	3479	75.2	3.114	78.0	89.2
	230.0	11.16	2197	3517	57.5	2.408	81.8	85.6
	230.0	7.99	1382	3554	34.3	1.451	78.3	75.2
	230.0	5.55	551	3590	8.7	0.374	50.6	43.2
	230.0	5.21	309	3600	0.6	0.027	6.5	25.8

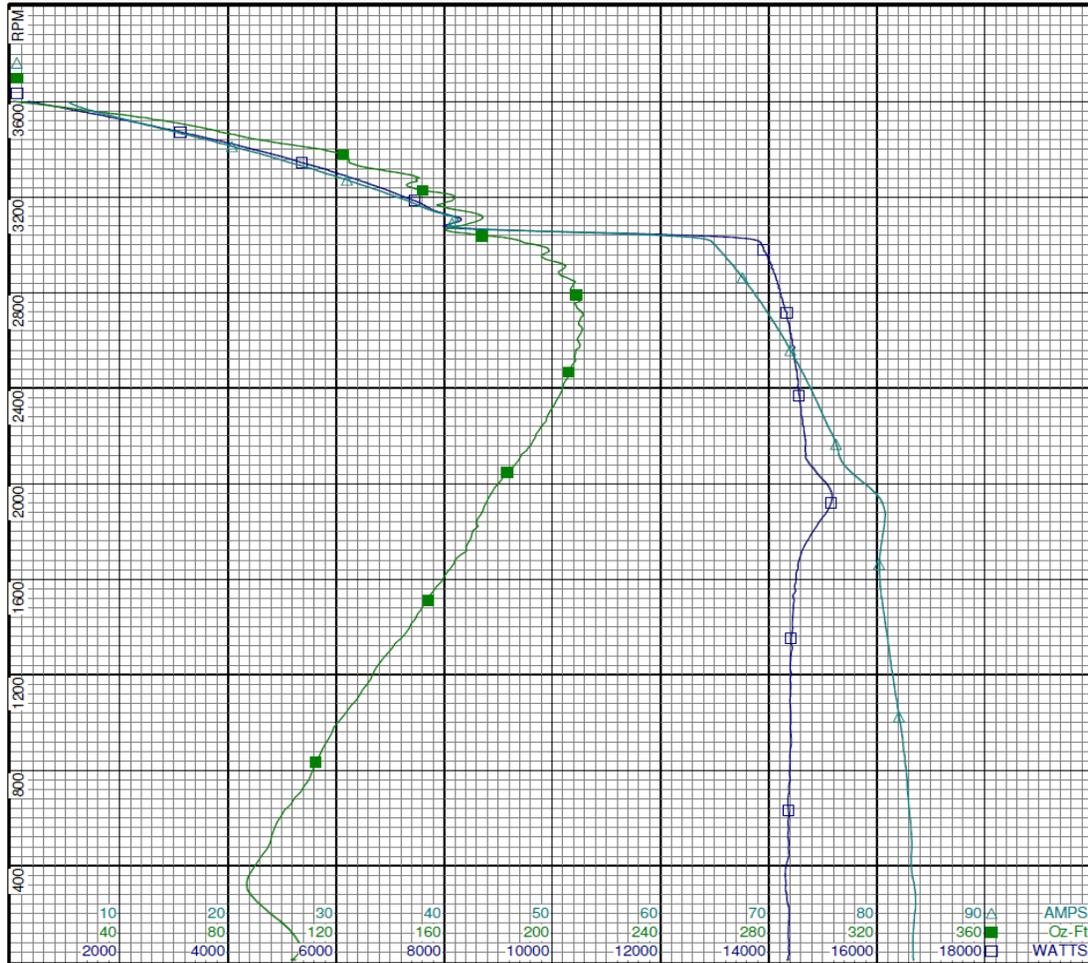
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	<b>4K062BG</b>	-

# Performance Data



**4K062BG**

REV.  
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**Curve Descriptions:**

Motor(1) Test 2 Start 230V 60 Hz 2P  
2-Line

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs I-Line

**Motor Ratings:**

(1) T063DAT2244 4K062BG

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<b>4K062BG</b>		-

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

# Performance Data



**4K062BG**

REV.

-

## Dayton Manufacturing Company

### Motor Description

Model: T063DAT2244 4K062BG  
 Motor ID: 1 of 3  
 Poles: 2  
 Volts: 230  
 Frequency: 60  
 HP: 3  
 Speed: 3450  
 Phase: 1  
 Protector: CEJ36CX

### Test Conditions

Test Type: Run Run Cap: 30 µFd  
 Test Number: 4 Start Cap: 519 µFd  
 Poles: 2 Environment:  
 Volts: 230 Tested: 1/24/2006 9:20:56 AM  
 Hz: 60 Tested By: Sharp, Gerald  
 Rotation: Gear Ratio: 1:1  
 Special Cond: Bearing Friction: -0.48 Oz-Ft  
 Speed Conn: Windage Torque: -3.68 Oz-Ft  
 TestBoard: Amtps Performance Fixture #2

Special Points	Vline (V)	Vaux (V)	Vcap(V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
	230.0	222.8	227.1	4.78	6.07	2.514	217	3590	0.00	0.000	0.0	19.7	29.4
	230.0	225.3	217.4	7.09	6.65	2.434	1220	3552	28.08	1.188	72.6	74.8	29.7
	230.0	225.4	208.6	10.57	9.51	2.342	2123	3514	53.78	2.250	79.1	87.3	29.8
<b>73 OZ-FT</b>	<b>230.0</b>	<b>224.5</b>	<b>201.2</b>	<b>13.60</b>	<b>12.36</b>	<b>2.261</b>	<b>2828</b>	<b>3487</b>	<b>73.00</b>	<b>3.030</b>	<b>79.9</b>	<b>90.4</b>	<b>29.8</b>
<b>3 HP</b>	<b>230.0</b>	<b>224.5</b>	<b>201.5</b>	<b>13.48</b>	<b>12.24</b>	<b>2.265</b>	<b>2801</b>	<b>3488</b>	<b>72.25</b>	<b>3.000</b>	<b>79.9</b>	<b>90.3</b>	<b>29.8</b>
	230.0	223.3	198.2	14.83	13.56	2.224	3104	3475	80.90	3.346	80.4	91.0	29.8
<b>84 OZ-FT</b>	<b>230.0</b>	<b>223.0</b>	<b>197.1</b>	<b>15.36</b>	<b>14.09</b>	<b>2.210</b>	<b>3222</b>	<b>3469</b>	<b>84.00</b>	<b>3.469</b>	<b>80.3</b>	<b>91.2</b>	<b>29.7</b>
<b>3450 RPM</b>	<b>230.0</b>	<b>221.7</b>	<b>192.9</b>	<b>17.35</b>	<b>16.07</b>	<b>2.166</b>	<b>3650</b>	<b>3450</b>	<b>95.50</b>	<b>3.922</b>	<b>80.2</b>	<b>91.4</b>	<b>29.8</b>
	230.0	220.8	189.4	18.89	17.61	2.132	3977	3434	103.28	4.222	79.2	91.5	29.9
	230.0	218.8	180.7	22.80	21.53	2.047	4813	3390	116.96	4.720	73.2	91.8	30.0
	230.0	215.9	171.6	26.83	25.61	1.962	5643	3343	132.59	5.276	69.8	91.5	30.3
	230.0	212.7	163.1	30.72	29.60	1.876	6404	3293	151.37	5.934	69.1	90.7	30.5
	230.0	209.2	154.3	34.62	33.59	1.789	7136	3240	155.30	5.990	62.6	89.6	30.7
	230.0	205.5	146.0	38.42	37.48	1.701	7821	3182	165.19	6.256	59.7	88.5	30.9
	230.0	201.2	137.9	42.15	41.32	1.613	8455	3119	176.35	6.547	57.8	87.2	31.0
	230.0	197.1	130.1	45.76	45.03	1.527	9042	3050	175.30	6.365	52.5	85.9	31.1
<b>BDT OZ-FT</b>	<b>230.0</b>	<b>196.2</b>	<b>128.7</b>	<b>46.50</b>	<b>45.79</b>	<b>1.511</b>	<b>9155</b>	<b>3036</b>	<b>178.46</b>	<b>6.450</b>	<b>52.6</b>	<b>85.6</b>	<b>31.1</b>
	230.0	192.8	123.0	49.14	48.68	1.445	9579	2976	173.70	6.153	47.9	84.7	31.2
	230.0	188.3	116.4	52.51	52.17	1.368	10058	2895	171.73	5.918	43.9	83.3	31.2
	230.0	183.4	110.6	55.69	55.45	1.290	10466	2806	168.15	5.618	40.0	81.7	31.0
	230.0	178.4	105.4	58.87	58.74	1.223	10832	2705	159.28	5.130	35.3	80.0	30.8
	230.0	173.4	101.7	61.56	61.55	1.182	11104	2605	151.91	4.711	31.6	78.4	30.8
	230.0	168.8	98.3	64.30	64.40	1.134	11372	2486	142.79	4.226	27.7	76.9	30.6
	230.0	164.1	96.0	66.64	66.84	1.100	11562	2366	132.09	3.721	24.0	75.4	30.4
	230.0	159.7	94.7	68.70	68.99	1.080	11705	2241	121.16	3.232	20.6	74.1	30.2
	230.0	155.0	94.4	70.65	71.03	1.073	11813	2102	108.55	2.716	17.2	72.7	30.2
	230.0	150.3	94.6	72.53	72.97	1.072	11914	1945	95.07	2.201	13.8	71.4	30.1
	230.0	145.7	95.6	74.10	74.65	1.079	11993	1780	81.46	1.726	10.7	70.4	29.9
	230.0	140.9	97.8	75.50	76.14	1.099	12011	1602	66.97	1.277	7.9	69.2	29.8
	230.0	137.0	99.4	76.69	77.39	1.119	12020	1416	53.07	0.895	5.6	68.1	29.9
	230.0	133.1	101.5	77.71	78.49	1.144	12031	1215	38.88	0.562	3.5	67.3	29.9
	230.0	128.3	104.8	78.52	79.38	1.179	12028	994	24.63	0.292	1.8	66.6	29.9
	230.0	124.3	107.9	79.11	80.03	1.215	12017	763	8.63	0.078	0.5	66.0	29.9
	230.0	120.6	110.8	79.50	80.46	1.248	12011	517	-6.65	-0.041	0.0	65.7	29.9
	230.0	117.2	113.7	79.56	80.59	1.267	11997	266	-14.24	-0.045	0.0	65.6	29.6

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**4K062BG**

REV.  
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**Curve Descriptions:**

Motor(1) Test 4 Run 230V 60 Hz 2P

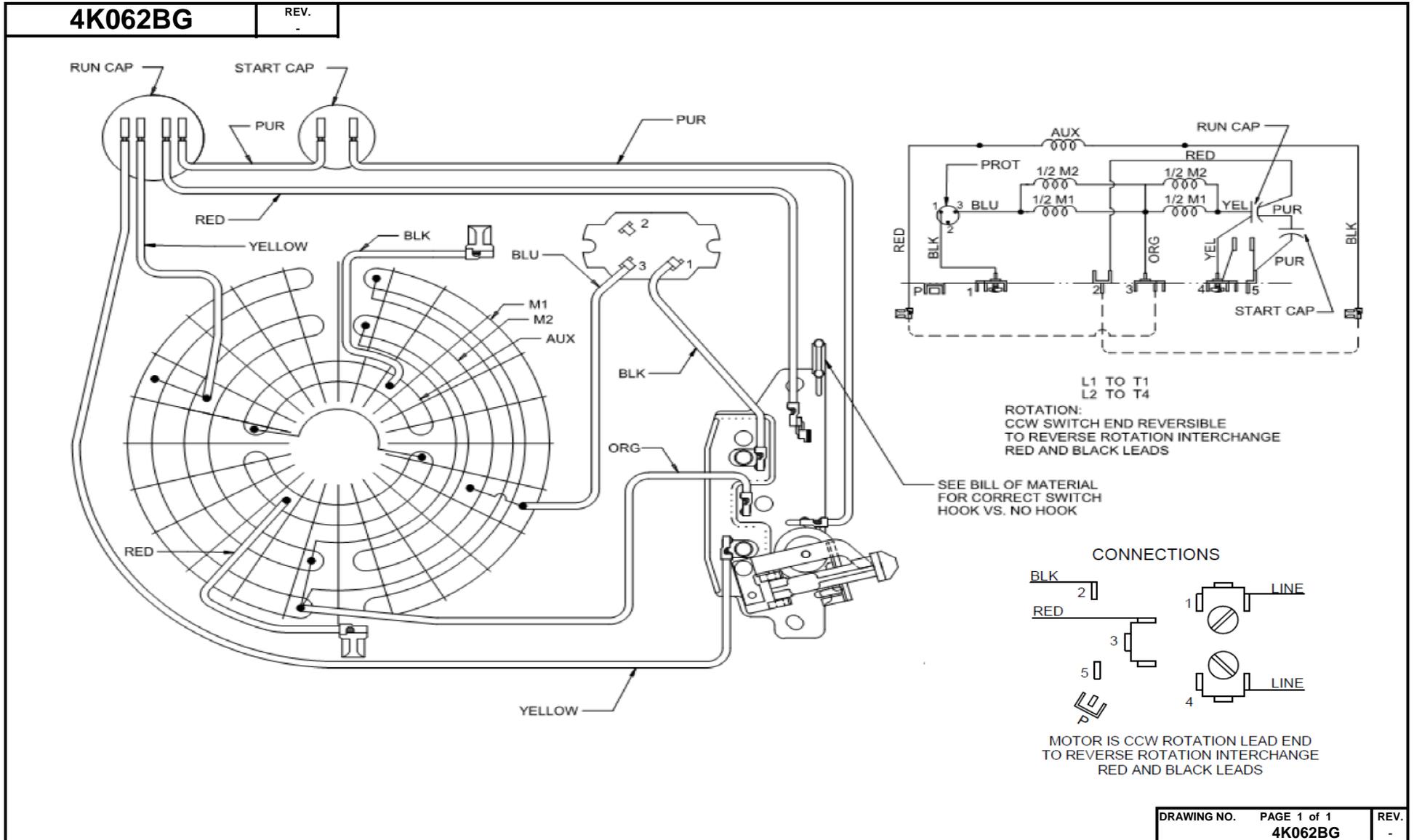
- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs ILine

**Motor Ratings:**

(1) T063DAT2244 4K062BG

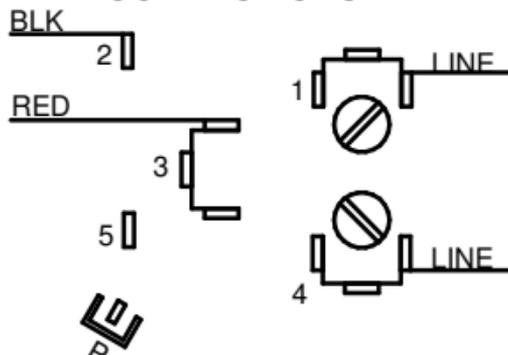
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# Wiring Diagram



**Dayton**<sup>®</sup>**AERATION FAN MOTOR****HP:** 3  
**VOLTS:** 230[ BAR CODE ]Part No **4K062BG****AMPS:** 14.9**PH:** 1**RPM:** 3450**HZ:** 60**DUTY:** CONT**FR:** 145TZ**SF:** 1**INS CL:** B**KVA CODE:** G**AMB:** 50 °C**ENCL:** TEAO**SFA:** 14.9**THERMALLY PROTECTED:** AUTO

MFG. NO. [ ] [ ] PROT. CODE: [ 00701 ]

AVG. F.L.  
EFF.**MTR REF:** T63KZDAT-2244**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 ]