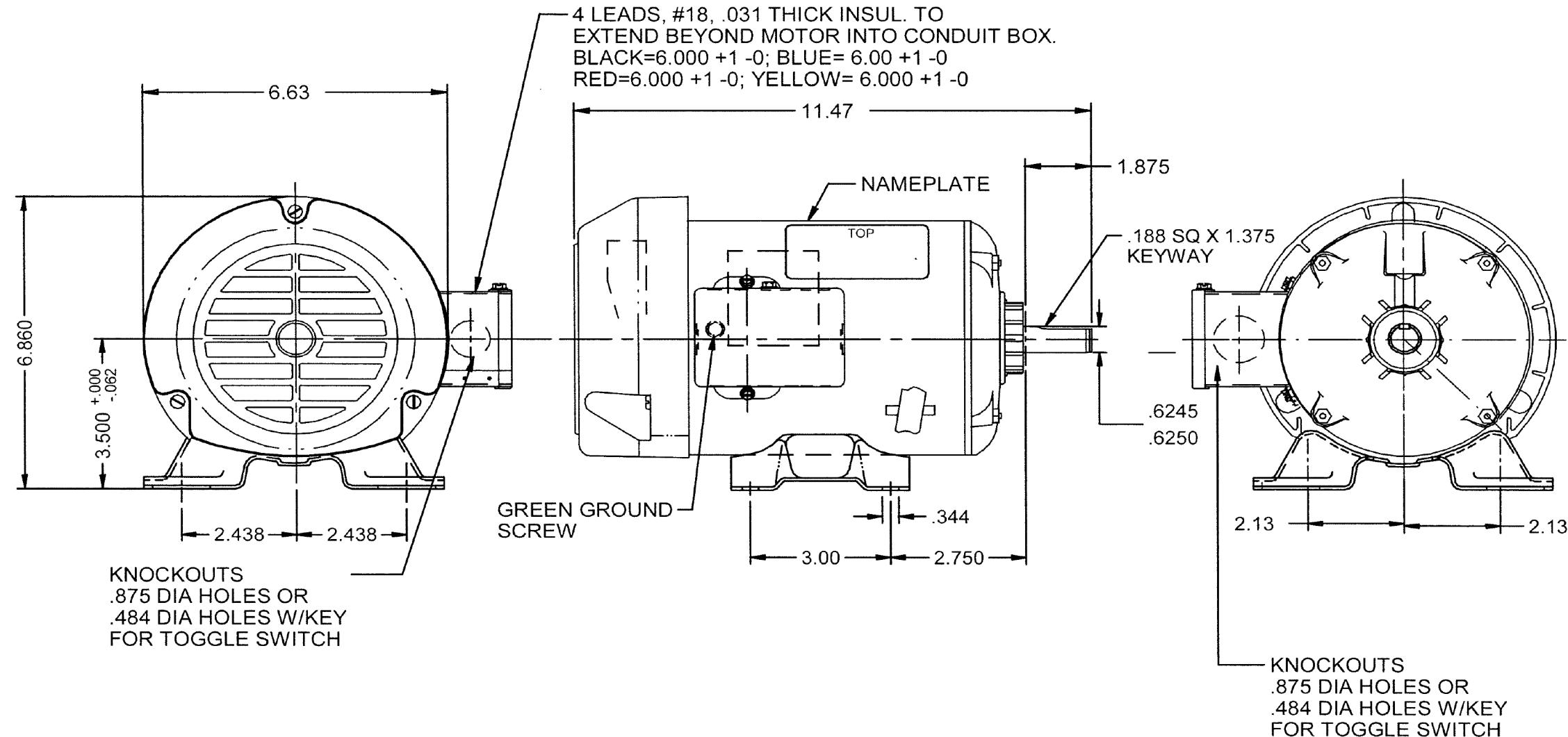


5K596BE

REV.  
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SHAFT KEY TAPED TO MOTOR



MODEL	HP.	VOLTS	Hz.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
S55GYC-8378	1/2	115	60	1725	BALL	CW /CCW	5K596BE

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# Performance Data

**Dayton**®

**5K596BE**

REV.  
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## MOTOR PERFORMANCE

<b>HP:</b>	1/2 HP						
<b>Poles:</b>	4P						
<b>No. of Speeds:</b>	1						
<b>Volts:</b>	115	115					
<b>Hz:</b>	60	60					
<b>Service Factor:</b>	1						
<b>Efficiency:</b>	@ Rated Load	63.9					
<b>Power Factor:</b>	@ Rated Load	63.5					
<b>Amps:</b>	@ No Load						
	@ Rated Load	8					
	@ Service Factor	N/A					
	@ Locked Rotor	63.64					
<b>RPM:</b>	@ Rated Load						
<b>Ambient (°C):</b>	40						
<b>Altitude (FASL):</b>							
<b>Torques:</b>	Breakdown	62.78					
	Locked Rotor	52.08					
	Pull-Up	48					
	Rated Load						
	Service Factor						
<b>Watts:</b>	Rated Load						
<b>KVA Code:</b>							
<b>Temperature Rise:</b>	@ Rated Load						
	@ Service Factor						
<b>Thermal Protector:</b>	Trip Temp (°C)						
<b>Winding Material:</b>	Start (Auxiliary)	Al					
	Run (Main)	Cu					
<b>Capacitor(s):</b>	Start (MFD / Volts)						
	No. of Start Capacitors						
	Run (MFD / Volts)						
	No. of Run Capacitors						
<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>	@ Rated Load						
	Locked Rotor						
	Pull-Up						
	Rated Load						
	Service Factor						
<b>Watts:</b>	@ Rated Load						
<b>Temperature Rise:</b>	@ Rated Load						
	@ Service Factor						

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5K596BE -

# Performance Data

**Dayton**®

**5K596BE**

REV.  
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## Dayton Manufacturing Company

### Motor Description

Model: S055RBG8332  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/2  
 Speed: 1725  
 Phase: 1  
 Protector: NONE

### Test Conditions

Test Type: Start Run Cap: 0  
 Test Number: 10 Start Cap: 0μfd  
 Poles: 4  
 Volts: 115 Tested: 3/30/2012 9:41:15 AM  
 Hz: 60 Tested By: Sharp, Gerald  
 Rotation: Gear Ratio: 1:1  
 Special Cond: 2 Line Test Bearing Friction: -0.50 Oz-Ft  
 Speed Conn: Speed Conn: Windage Torque: -2.01 Oz-Ft  
 TestBoard: Amtps Performance Fixture #1

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	63.64	6055	4	52.08	0.002	0.0	82.7
	115.0	63.27	6019	38	53.00	0.024	0.3	82.7
	115.0	63.04	5999	183	48.00	0.104	1.3	82.7
	115.0	63.04	5999	183	48.00	0.104	1.3	82.7
	115.0	62.61	5964	316	53.62	0.202	2.5	82.8
	115.0	62.10	5929	440	56.04	0.294	3.7	83.0
	115.0	61.46	5885	556	59.90	0.396	5.0	83.3
	115.0	60.79	5829	663	63.69	0.503	6.4	83.4
	115.0	60.06	5777	762	67.22	0.610	7.9	83.6
	115.0	59.25	5713	854	70.67	0.718	9.4	83.8
	115.0	58.37	5645	940	73.52	0.822	10.9	84.1
	115.0	57.42	5567	1019	76.30	0.925	12.4	84.3
	115.0	56.41	5487	1092	78.44	1.020	13.9	84.6
	115.0	55.36	5396	1159	79.80	1.102	15.2	84.8
	115.0	54.28	5301	1222	80.45	1.170	16.5	84.9
	115.0	53.16	5199	1279	80.26	1.222	17.5	85.1
	115.0	52.03	5097	1332	79.12	1.254	18.4	85.2
	115.0	50.90	4993	1381	77.36	1.272	19.0	85.3
	115.0	49.73	4873	1424	74.44	1.262	19.3	85.2
	115.0	18.80	1732	1464	59.47	1.037	44.6	80.1
	115.0	19.41	1789	1502	60.13	1.076	44.9	80.1
	115.0	18.29	1698	1537	59.36	1.086	47.7	80.7
	115.0	16.98	1582	1570	58.14	1.086	51.2	81.0
	115.0	15.65	1457	1599	56.49	1.075	55.1	81.0
	115.0	14.35	1333	1625	53.20	1.029	57.6	80.8
	115.0	13.07	1203	1649	49.23	0.967	59.9	80.1
	115.0	11.80	1070	1673	45.07	0.897	62.5	78.9
	115.0	10.59	930	1694	39.38	0.794	63.7	76.3
	115.0	9.53	799	1715	33.82	0.690	64.4	72.9
	115.0	8.32	648	1734	27.31	0.564	64.9	67.7
	115.0	7.50	511	1753	20.07	0.419	61.2	59.2
	115.0	6.83	354	1772	10.88	0.230	48.4	45.0
	115.0	6.34	196	1791	1.90	0.041	15.4	26.9
	115.0	6.30	165	1794	0.00	0.000	0.0	22.8

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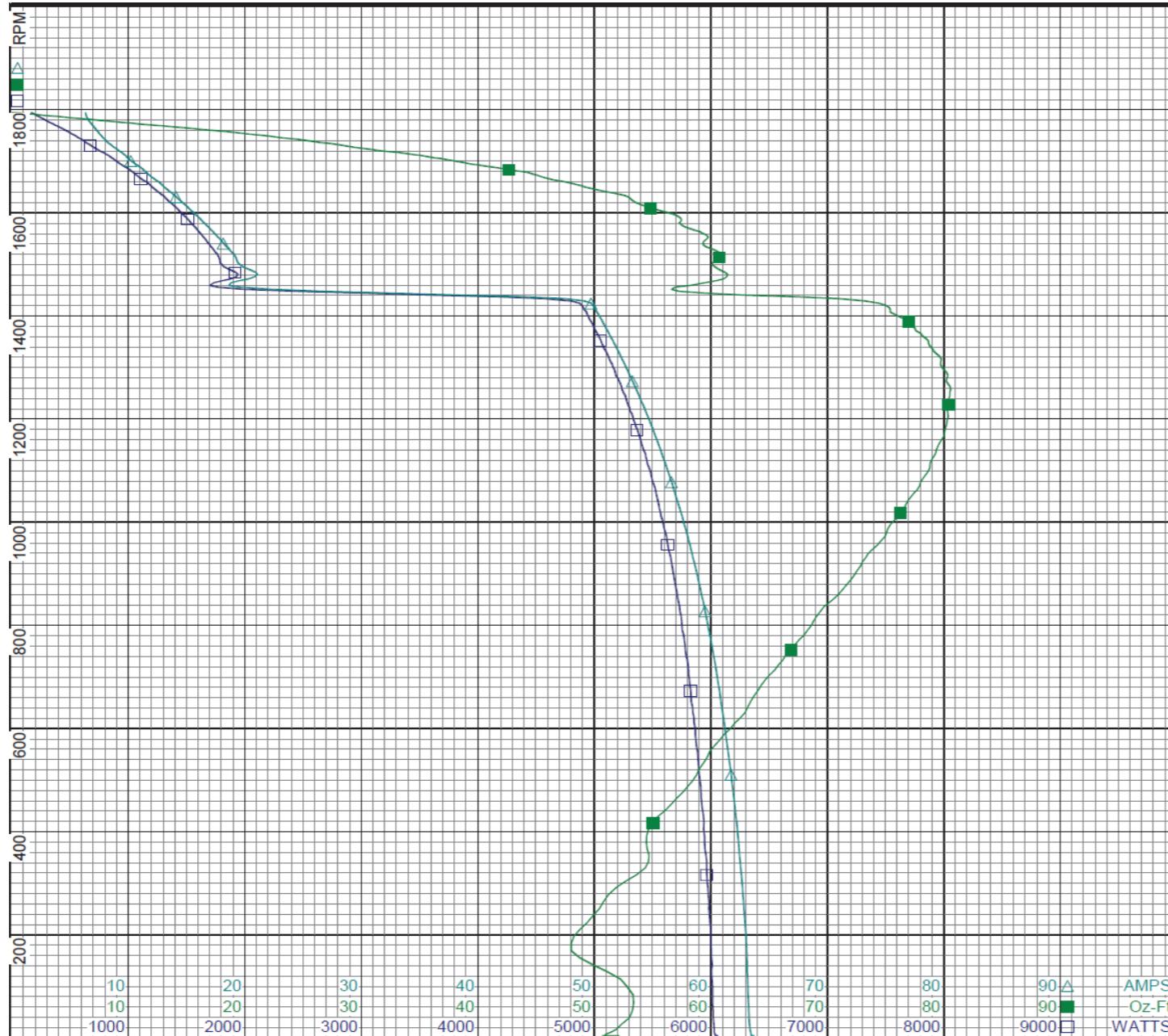
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data

**Dayton**®

**5K596BE**

REV.  
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**Dayton**

#### Curve Descriptions:

Motor(1) Test 10 Start 115V 60 Hz 4P  
2 Line Test Attempt #1

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

#### Motor Ratings:

(1) S055RBG8332 ID: 1

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

**5K596BE**

REV.  
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## Dayton Manufacturing Company

**Motor Description**

Model: S055RBG8332  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/2  
 Speed: 1725  
 Phase: 1  
 Protector: NONE

**Test Conditions**

Test Type: Run  
 Test Number: 20  
 Poles: 4  
 Volts: 115  
 HZ: 60  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Amtps Performance

Run Cap: 0  
 Start Cap: 0 $\mu$ fd  
 Tested: 3/30/2012 9:39:42 AM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.56 Oz-Ft  
 Windage Torque: -2.14 Oz-Ft

Fixture #1

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
0.5 HP	115.0	6.15	147	1790	0.00	0.000	0.0	20.8
24.4 OZ-FT	115.0	6.50	324	1770	10.35	0.218	50.1	43.4
1725 RPM	115.0	7.43	506	1750	20.25	0.422	62.3	59.2
	115.0	8.00	584	1741	24.13	0.500	63.9	63.5
	115.0	8.04	589	1740	24.40	0.505	64.0	63.7
	115.0	8.42	650	1731	27.73	0.572	65.6	67.1
	115.0	8.70	697	1725	30.04	0.617	66.0	69.7
	115.0	9.60	818	1711	35.66	0.727	66.3	74.0
	115.0	10.83	961	1690	41.45	0.834	64.7	77.1
	115.0	12.29	1119	1666	47.17	0.936	62.4	79.2
	115.0	13.67	1265	1642	52.38	1.024	60.4	80.4
	115.0	15.06	1402	1616	55.69	1.071	57.0	80.9
	115.0	16.47	1537	1587	58.79	1.111	53.9	81.2
	115.0	17.86	1662	1557	61.40	1.138	51.1	80.9
	115.0	19.26	1781	1523	62.31	1.130	47.3	80.4
BDT OZ-FT	115.0	19.53	1803	1516	62.78	1.133	46.9	80.3
	115.0	20.62	1889	1487	62.08	1.099	43.4	79.7
	115.0	21.94	1990	1446	61.92	1.066	40.0	78.9
	115.0	23.19	2079	1403	60.46	1.010	36.3	77.9
	115.0	24.40	2158	1356	57.96	0.935	32.3	76.9
	115.0	25.54	2228	1305	55.47	0.862	28.8	75.9
	115.0	26.61	2288	1250	52.06	0.775	25.3	74.8
	115.0	27.60	2339	1189	48.28	0.683	21.8	73.7
	115.0	28.52	2382	1124	44.05	0.589	18.5	72.6
	115.0	29.35	2419	1054	39.60	0.497	15.3	71.7
	115.0	30.13	2449	978	34.82	0.406	12.4	70.7
	115.0	30.79	2472	898	30.26	0.323	9.8	69.8
	115.0	31.40	2487	810	25.02	0.241	7.2	68.9
	115.0	31.93	2502	716	19.96	0.170	5.1	68.1
	115.0	32.40	2511	616	15.13	0.111	3.3	67.4
	115.0	32.76	2518	509	10.94	0.066	2.0	66.8
	115.0	33.02	2522	396	6.15	0.029	0.9	66.4
	115.0	33.17	2522	274	2.36	0.008	0.2	66.1
	115.0	33.23	2518	145	0.65	0.001	0.0	65.9

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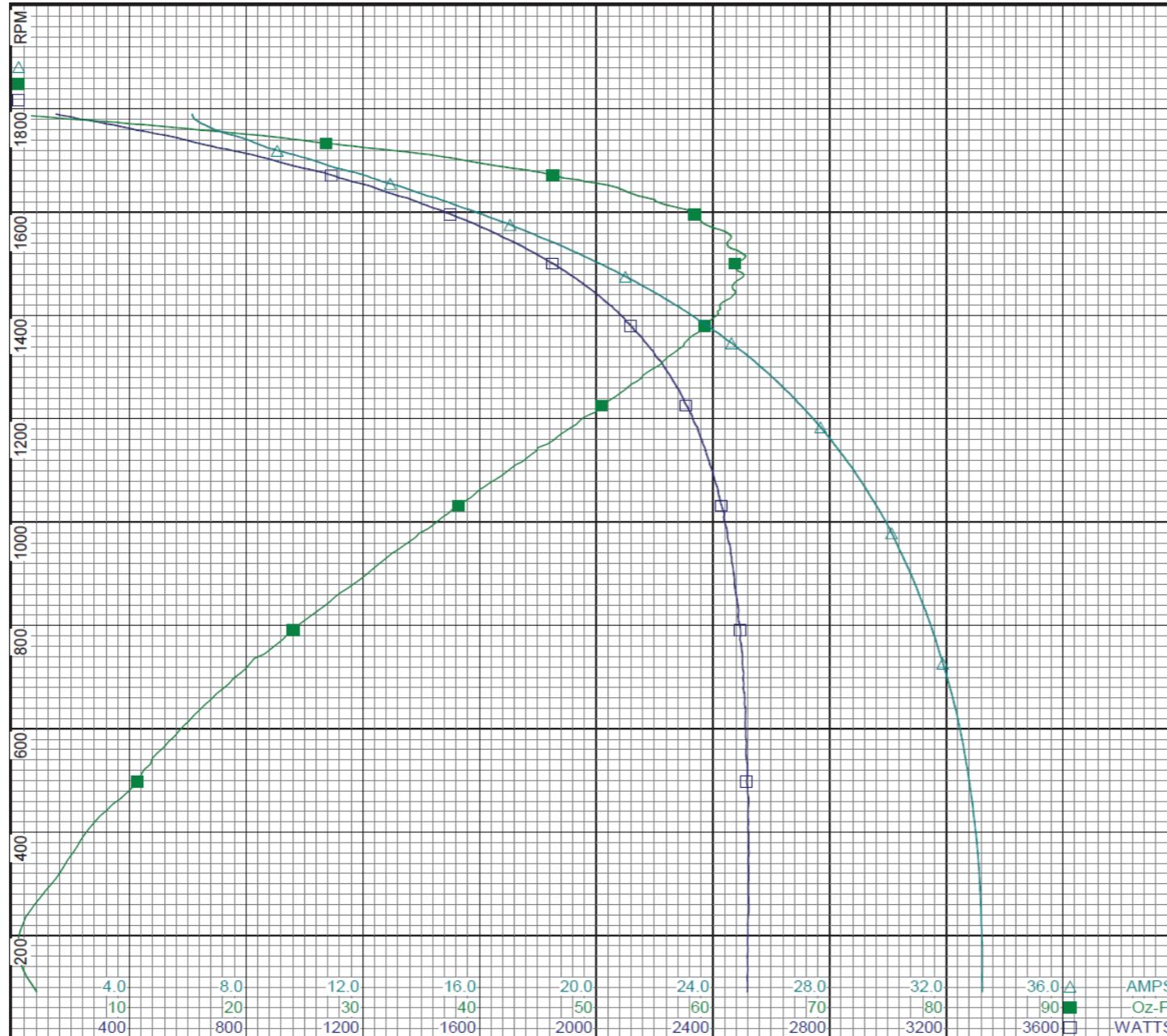
REV.  
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# Performance Data

**Dayton**®

**5K596BE**

REV.  
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**Dayton**

## Curve Descriptions:

Motor(1) Test 20 Run 115V 60 Hz 4P  
Attempt #1

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

## Motor Ratings:

(1) S055RBG8332 ID: 1  
400W 1400 RPM 3600 AMPS  
90 Oz-Ft 3600 WATTS

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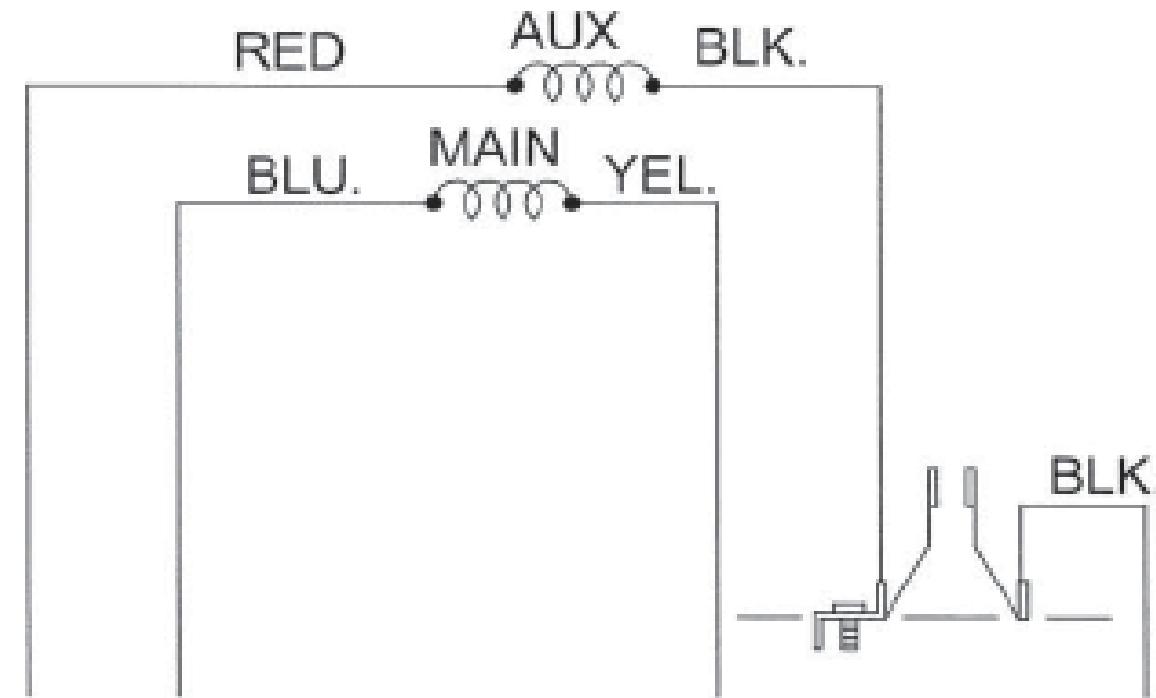
**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Wiring Diagram

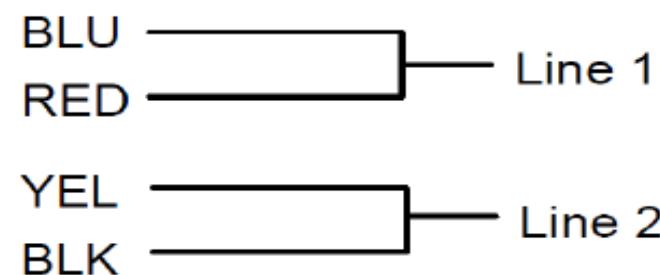
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## CONNECTIONS



TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

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

**Dayton**®Part  
No.**5K596BE****SPLIT PHASE  
MOTOR****HP:** 1/2**PH:** 1Disconnect Power Before Making  
Any Electrical Connections or Changes**VOLTS:** 115**HZ:** 60**AMPS:** 8.0**FR:** 56**RPM:** 1725**INS CL:** F**DUTY:** CONT**AMB:** 40 °C**SF:** 1.0**SFA:****KVA CODE :** R**ENCL:** TEFC**MTR REF:** S55GYC-8378**THERMALLY PROTECTED:** NONEPROT. CODE:   MFG. NO.  

258501



E47479

**CONNECTIONS**BLU  Line 1RED YEL  Line 2BLK TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS