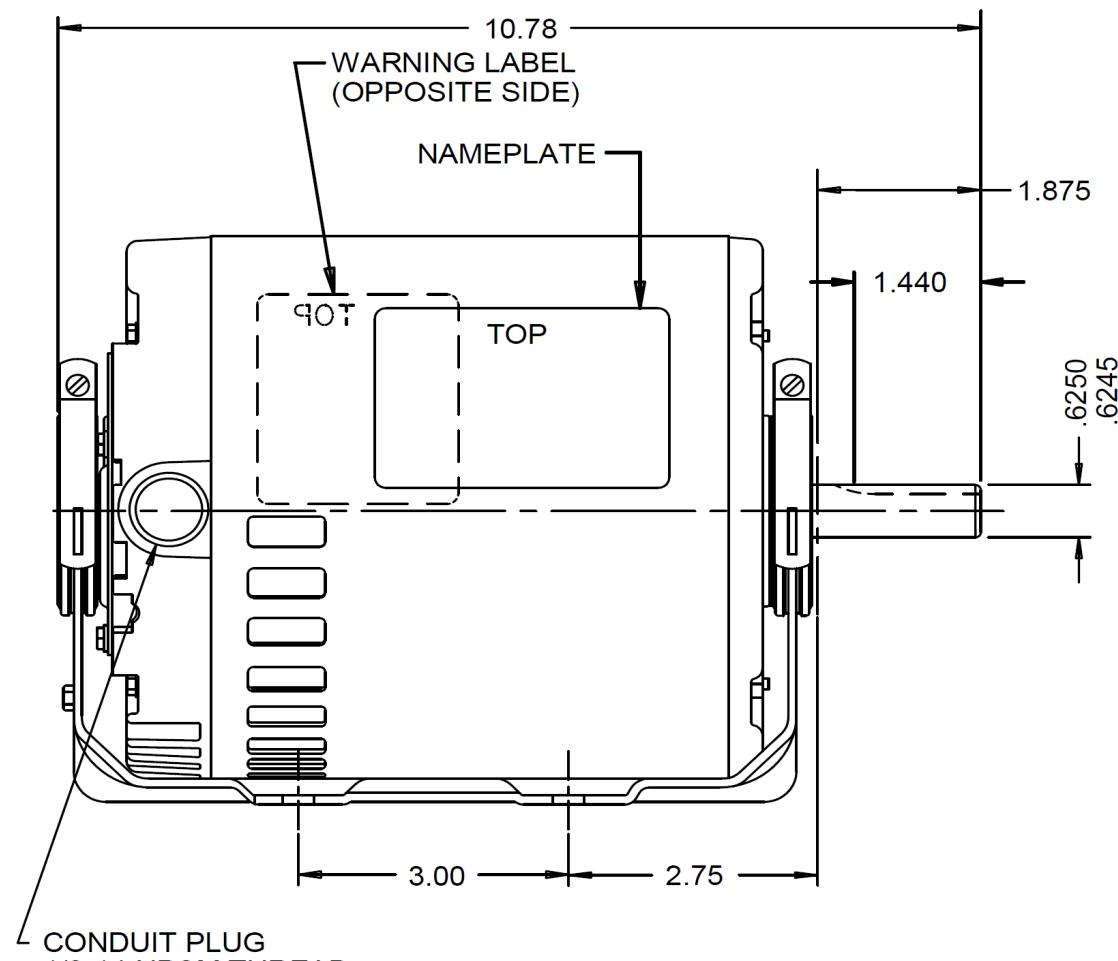
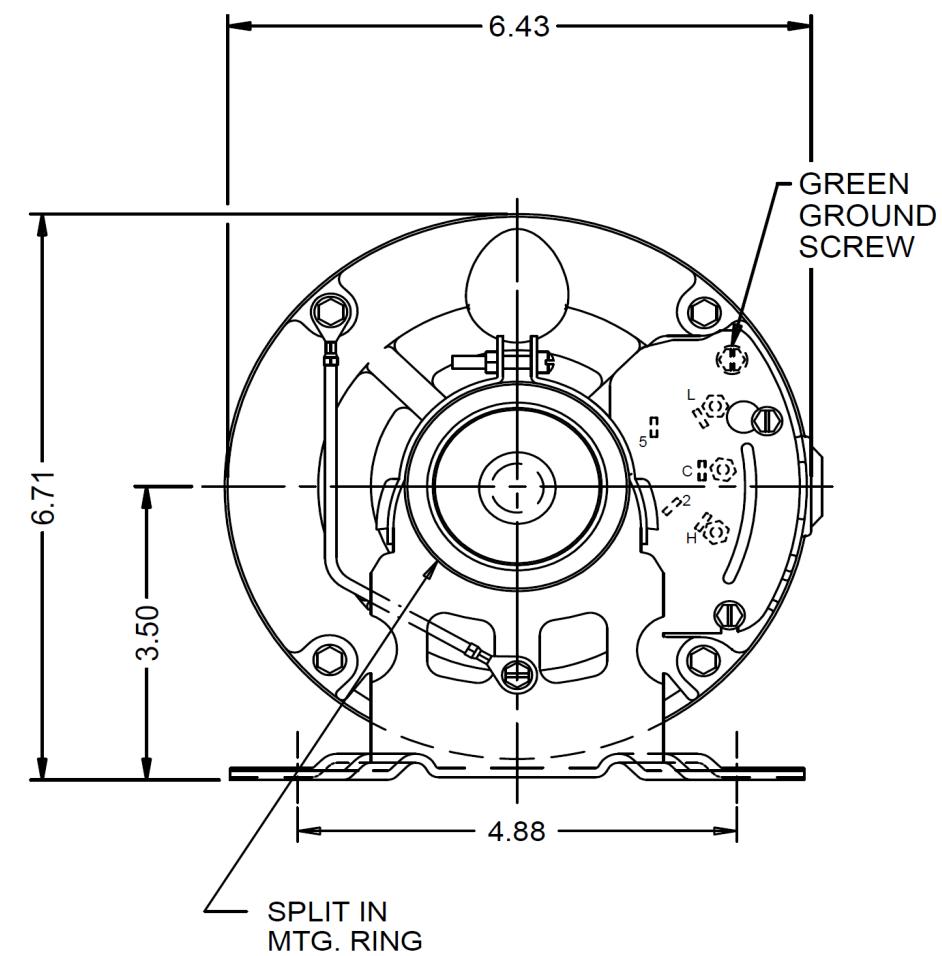


# Dimensional Drawing

**Dayton**®

**5K423BE**

REV.  
-



MODEL	HP.	VOLTS	Hz.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
S63JWP-8098	1/2 / 1/4	115	60	1725 / 1140	BALL	CW /CCW	5K423BE

DRAWING NO. PAGE 1 of 1  
5K423BE REV. -

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

# Performance Data

**Dayton**®

**5K423BE**

REV.  
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## SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE

<b>HP:</b>	1/2							
<b>Poles:</b>	4							
<b>Ambient (°C):</b>	40							
<b>Altitude (FASL):</b>								
<b>No. of Speeds:</b>	1							
<b>Volts:</b>	115	<b>115</b>						
<b>Hz:</b>	60	<b>60</b>						
<b>Service Factor:</b>	1.25							
<b>Efficiency:</b>	@ Rated Load	62.50						
<b>Power Factor:</b>	@ Rated Load	67.30						
<b>Amps:</b>	@ No Load	6.07						
	@ Rated Load	7.71						
	@ Service Factor	8.67						
	@ Locked Rotor	63.89						
<b>RPM:</b>	@ Rated Load	1735						
<b>Torques:</b>	Breakdown	55.8						
	Locked Rotor	31.24						
	Pull-Up	30.66						
	Rated Load	24.20						
	Service Factor	30.58						
<b>Watts:</b>	Rated Load	597						
<b>KVA Code:</b>								<b>R</b>
<b>Temperature Rise:</b>	@ Rated Load	43.20						
	@ Service Factor	53.10						
<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							

## LOW SPEED PERFORMANCE DATA:

<b>HP:</b>	1/4							
<b>Poles:</b>	6							
<b>Volts:</b>	115	<b>115</b>						
<b>Hz:</b>	60	<b>60</b>						
<b>Efficiency:</b>	@ Rated Load	49.90						
<b>Power Factor:</b>	@ Rated Load	60.50						
<b>Amps:</b>	@ No Load	4.886						
	@ Rated Load	5.37						
	@ Service Factor	5.87						
	@ Locked Rotor							
<b>Torques:</b>	BreakDown	36.8						
	Locked Rotor							
	Pull-Up							
	Rated Load	18.27						
	Service Factor	23.14						
<b>Watts:</b>	@ Rated Load	374						
<b>Temperature Rise:</b>	@ Rated Load	58						
	@ Service Factor	68.6						

DRAWING NO. PAGE 1 of 1

5K423BE

REV.

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**5K423BE**

REV.  
-

## Dayton Manufacturing Company

**Motor Description**

Model: S063JWP8098  
 Motor ID: 2  
 Poles: 4/6  
 Volts: 115  
 Frequency: 60  
 HP: 1/2 - 1/4  
 Speed: 1725/1140  
 Phase: 1  
 Protector: NONE

**Test Conditions**

Test Type: Start  
 Test Number: 10  
 Poles: 4  
 Volts: 115  
 Hz: 60  
 Rotation:  
 Special Cond: 2 Line Test  
 Speed Conn:  
 TestBoard: Amtps Performance Fixture #1  
 Run Cap: 0  
 Start Cap: 0 $\mu$ fd  
 Tested: 3/26/2012 9:13:46 AM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.66 Oz-Ft  
 Windage Torque: -1.94 Oz-Ft

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	65.20	6356	3	37.47	0.001	0.0	84.8
	<b>115.0</b>	<b>64.93</b>	<b>6332</b>	<b>10</b>	<b>34.80</b>	<b>0.004</b>	<b>0.0</b>	<b>84.8</b>
	115.0	64.85	6330	39	35.89	0.016	0.2	84.9
	115.0	64.55	6297	184	40.96	0.090	1.1	84.8
	115.0	63.92	6244	317	48.23	0.182	2.2	84.9
	115.0	63.20	6175	442	56.21	0.296	3.6	85.0
	115.0	62.31	6091	557	63.29	0.420	5.1	85.0
	115.0	61.53	6026	664	68.33	0.540	6.7	85.2
	115.0	60.47	5948	763	75.07	0.682	8.6	85.5
	115.0	59.04	5825	855	82.91	0.844	10.8	85.8
	115.0	57.34	5678	941	86.86	0.973	12.8	86.1
	115.0	55.68	5504	1020	89.44	1.086	14.7	86.0
	115.0	53.97	5312	1091	87.63	1.138	16.0	85.6
	115.0	52.49	5104	1157	78.55	1.082	15.8	84.5
	115.0	48.10	4538	1218	60.09	0.871	14.3	82.1
	115.0	23.49	2063	1274	46.83	0.710	25.7	76.4
	115.0	22.57	2006	1329	49.26	0.779	29.0	77.3
	115.0	21.59	1946	1379	51.22	0.841	32.2	78.4
	115.0	20.52	1871	1424	52.57	0.891	35.5	79.3
	115.0	19.38	1786	1466	53.47	0.933	39.0	80.2
	115.0	18.23	1693	1504	53.73	0.962	42.4	80.8
	115.0	17.05	1596	1538	53.44	0.979	45.7	81.4
	115.0	15.87	1492	1570	52.48	0.981	49.0	81.7
	115.0	14.68	1381	1598	51.13	0.973	52.5	81.8
	115.0	13.48	1264	1626	48.43	0.937	55.3	81.5
	115.0	12.30	1142	1650	45.38	0.892	58.3	80.8
	115.0	11.14	1018	1673	41.70	0.830	60.8	79.5
	115.0	10.03	891	1695	37.20	0.751	62.8	77.3
	115.0	8.98	762	1715	31.73	0.648	63.4	73.8
	115.0	8.01	628	1735	25.76	0.532	63.2	68.2
	115.0	7.13	490	1754	18.81	0.393	59.8	59.8
	115.0	6.47	350	1772	11.10	0.234	50.0	47.0
	115.0	6.14	205	1790	2.59	0.055	20.1	29.1
	115.0	6.11	161	1796	0.00	0.000	0.0	23.0

DRAWING NO. PAGE 1 of 6  
5K423BE

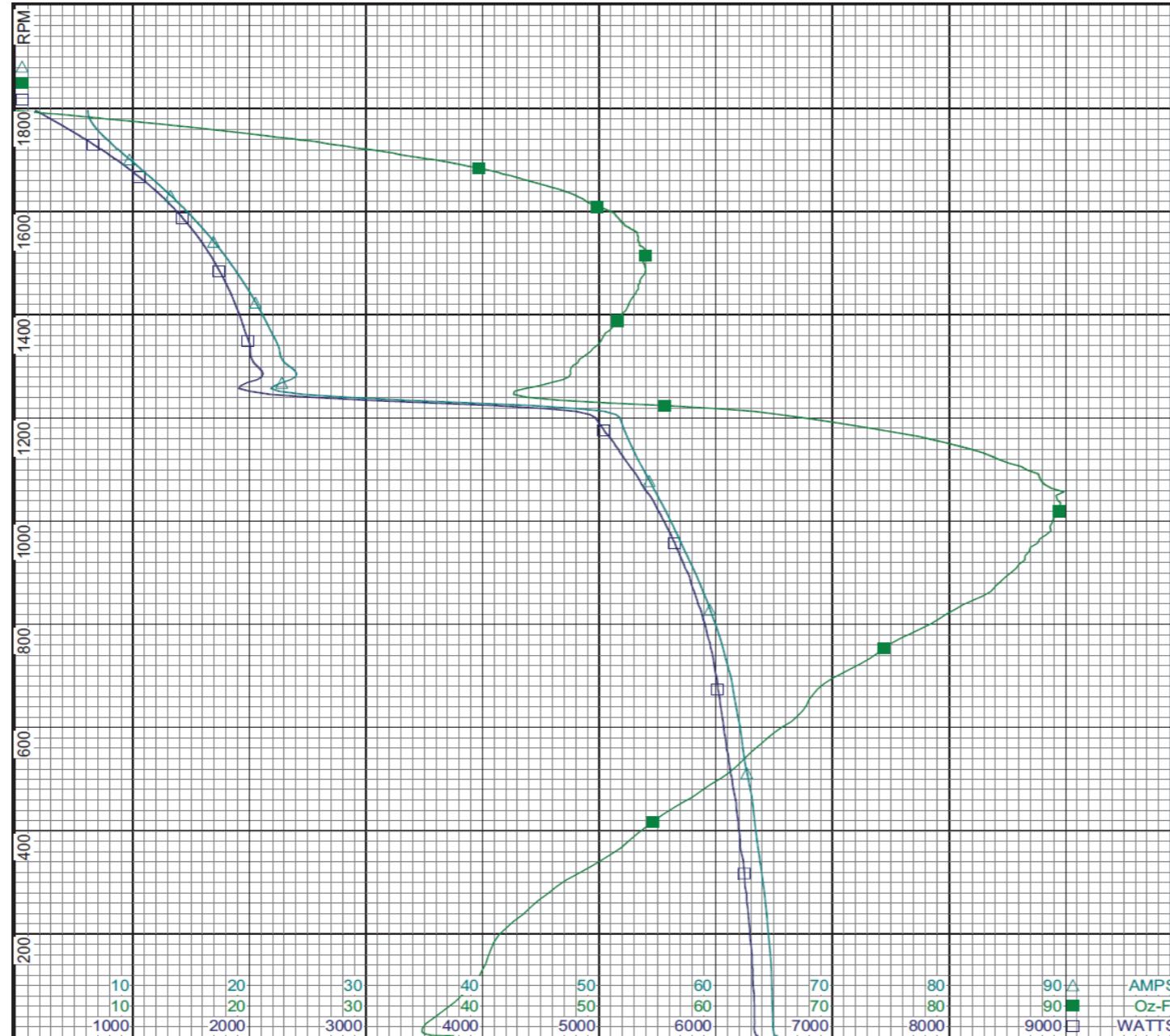
REV.  
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# Performance Data

**Dayton**®

**5K423BE**

REV.  
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**Dayton**

DRAWING NO. PAGE 2 of 6  
5K423BE

**5K423BE**

REV.  
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## Dayton Manufacturing Company

**Motor Description**

Model: S063JWP8098  
 Motor ID: 2  
 Poles: 4/6  
 Volts: 115  
 Frequency: 60  
 HP: 1/2 - 1/4  
 Speed: 1725/1140  
 Phase: 1  
 Protector: NONE

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

Run Cap: 0  
 Start Cap: 0μfd  
 Tested: 3/26/2012 9:04:57 AM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.62 Oz-Ft  
 Windage Torque: -2.00 Oz-Ft

Fixture #1

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
0.5 HP	115.0	7.53	583	1737	24.18	0.500	63.9	67.4
24.3 OZ-FT	115.0	7.55	586	1736	24.30	0.502	64.0	67.5
1725 RPM	115.0	8.15	669	1725	28.43	0.584	65.1	71.4
0.625 HP	115.0	8.52	720	1718	30.56	0.625	64.7	73.5
30.4 OZ-FT	115.0	8.49	716	1719	30.40	0.622	64.8	73.4
BDT OZ-FT	115.0	17.35	1627	1532	55.49	1.012	46.4	81.5
	115.0	17.73	1659	1522	55.34	1.003	45.1	81.4
	115.0	18.93	1754	1486	55.04	0.974	41.4	80.6
	115.0	20.09	1844	1445	54.57	0.939	38.0	79.8
	115.0	21.19	1919	1402	53.20	0.888	34.5	78.8
	115.0	22.24	1989	1356	51.41	0.830	31.1	77.8
	115.0	23.23	2049	1305	48.67	0.756	27.5	76.7
	115.0	24.17	2100	1249	45.51	0.677	24.1	75.5
	115.0	25.03	2144	1189	41.97	0.594	20.7	74.5
	115.0	25.83	2182	1124	38.02	0.509	17.4	73.5
	115.0	26.54	2213	1054	33.67	0.423	14.2	72.5
	115.0	27.18	2232	979	29.17	0.340	11.4	71.4
	115.0	27.77	2254	897	24.72	0.264	8.7	70.6
	115.0	28.28	2265	810	19.48	0.188	6.2	69.6
	115.0	28.73	2268	717	14.46	0.123	4.1	68.6
	115.0	60.15	5632	621	58.67	0.434	5.7	81.4
	115.0	63.76	6238	517	62.43	0.384	4.6	85.1
	115.0	64.36	6301	400	54.28	0.259	3.1	85.1
	115.0	64.44	6301	277	46.32	0.153	1.8	85.0
	115.0	64.44	6304	147	39.64	0.069	0.8	85.1

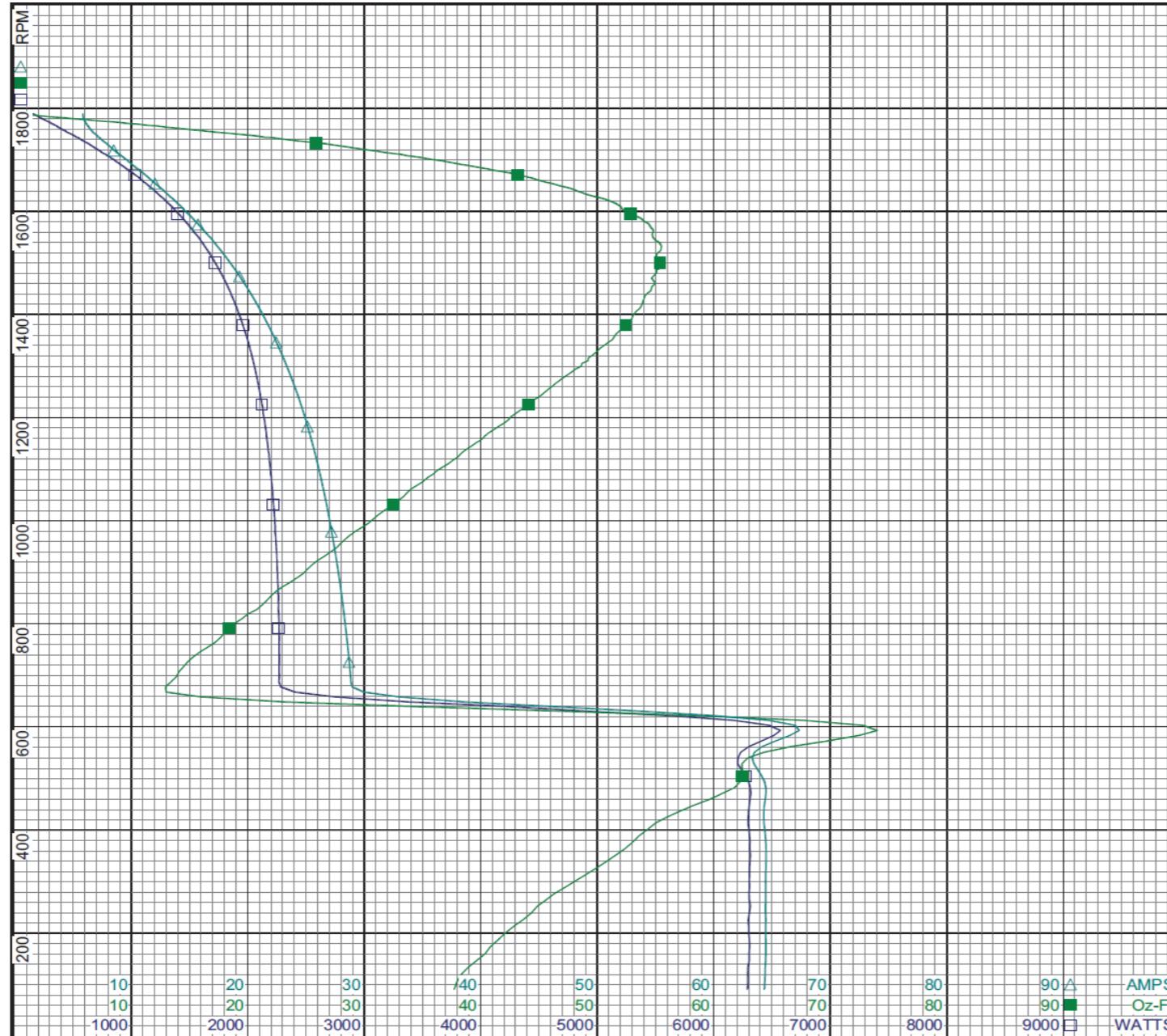
DRAWING NO.	PAGE 3 of 6	REV.
5K423BE		-

# Performance Data

**Dayton**®

**5K423BE**

REV.  
-



**Dayton**

#### Curve Descriptions:

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

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

#### Motor Ratings:

(1) S063JWP8098 ID: 2

10	20	30	40	50	60	70	80	90	AMPS
10	20	30	40	50	60	70	80	90	Oz-Ft
1000	2000	3000	4000	5000	6000	7000	8000	9000	WATTS

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**5K423BE**

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

**5K423BE**

REV.  
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## Dayton Manufacturing Company

### Motor Description

Model: S063JWP8098  
 Motor ID: 2  
 Poles: 4/6  
 Volts: 115  
 Frequency: 60  
 HP: 1/2 - 1/4  
 Speed: 1725/1140  
 Phase: 1  
 Protector: NONE

Test Type: Run  
 Test Number: 12  
 Poles: 6  
 Volts: 115  
 Hz: 60  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Amtps Performance  
 Run Cap: 0  
 Start Cap: 0μfd  
 Tested: 3/26/2012 9:03:44 AM  
 Tested By: Sharp, Gerald  
 Gear Ratio: 1:1  
 Bearing Friction: -0.66 Oz-Ft  
 Windage Torque: -1.83 Oz-Ft  
 Fixture #1

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
0.167 HP	115.0	4.95	289	1166	12.03	0.167	43.1	50.7
0.209 HP	115.0	5.14	330	1158	15.15	0.209	47.3	55.8
0.25 HP	115.0	5.37	374	1150	18.27	0.250	49.9	60.5
18.2 OZ-FT	115.0	5.37	372	1150	18.20	0.249	49.9	60.4
1140 RPM	115.0	5.69	425	1140	21.40	0.290	51.0	64.9
22.8 OZ-FT	115.0	5.83	446	1136	22.80	0.308	51.6	66.5
0.312 HP	115.0	5.87	451	1135	23.10	0.312	51.6	66.8
BDT OZ-FT	115.0	9.72	882	1004	36.76	0.439	37.2	78.9
	115.0	10.11	918	985	36.56	0.429	34.9	78.9
	115.0	10.65	965	960	35.74	0.408	31.6	78.8
	115.0	11.16	1008	930	34.57	0.383	28.3	78.5
	115.0	11.66	1046	898	32.93	0.352	25.1	78.0
	115.0	12.12	1083	863	31.01	0.319	22.0	77.7
	115.0	12.55	1113	826	28.76	0.283	18.9	77.1
	115.0	12.95	1141	785	26.53	0.248	16.2	76.6
	115.0	13.32	1165	741	23.70	0.209	13.4	76.0
	115.0	23.10	2164	694	21.97	0.181	6.3	81.5
	115.0	63.83	6254	651	68.86	0.534	6.4	85.2
	115.0	64.48	6302	594	66.54	0.470	5.6	85.0
	115.0	64.40	6286	533	63.66	0.404	4.8	84.9
	115.0	64.34	6281	469	59.16	0.330	3.9	84.9
	115.0	64.28	6281	399	54.49	0.259	3.1	85.0
	115.0	64.30	6273	327	49.77	0.194	2.3	84.8
	115.0	64.18	6256	249	44.95	0.133	1.6	84.8
	115.0	64.10	6248	166	40.28	0.080	1.0	84.8

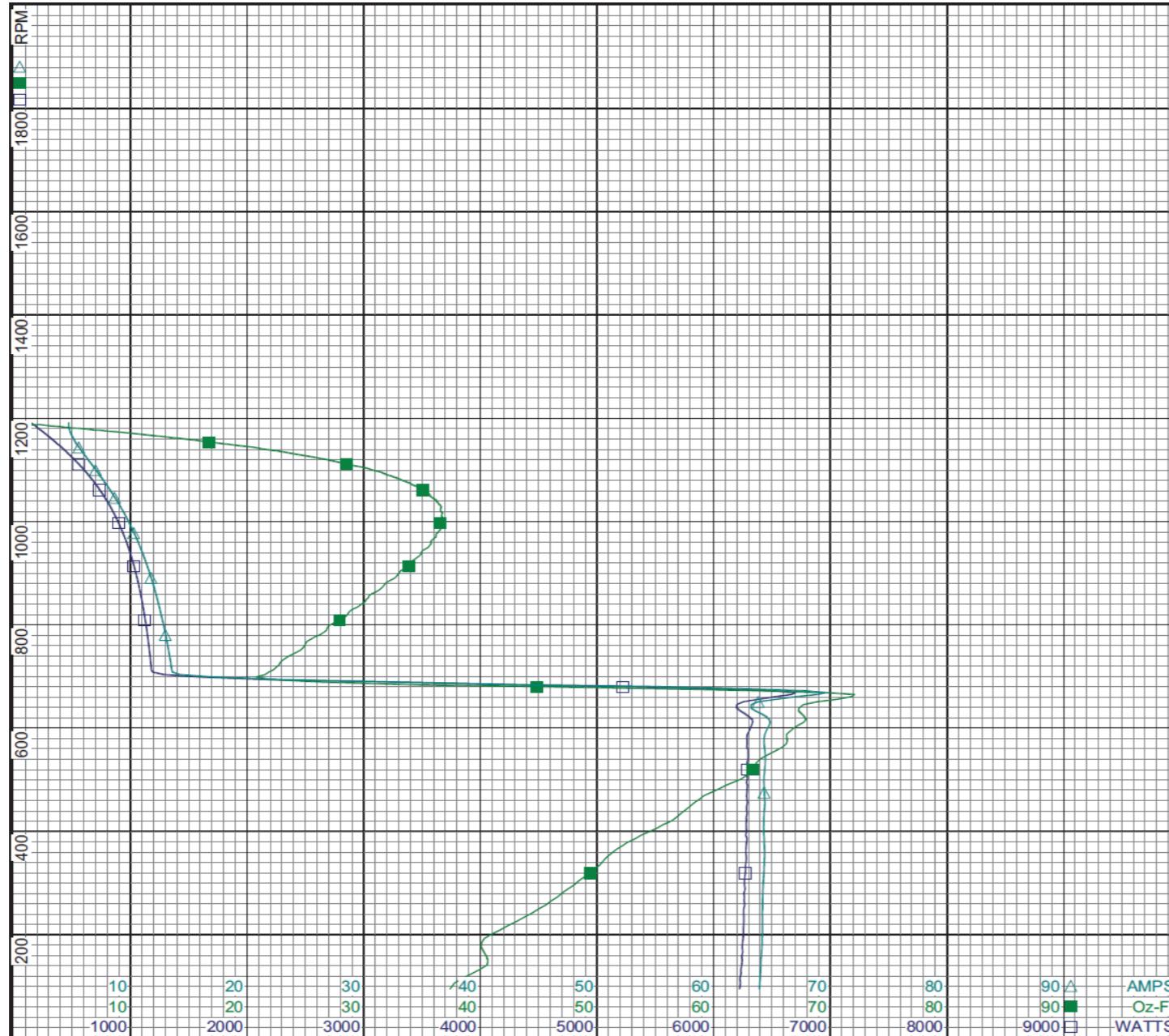
DRAWING NO.	PAGE 5 of 6	REV.
5K423BE		-

# Performance Data

**Dayton**®

**5K423BE**

REV.  
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**Dayton**

## Curve Descriptions:

Motor(1) Test 12 Run 115V 60 Hz 6P  
Attempt #1

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

## Motor Ratings:

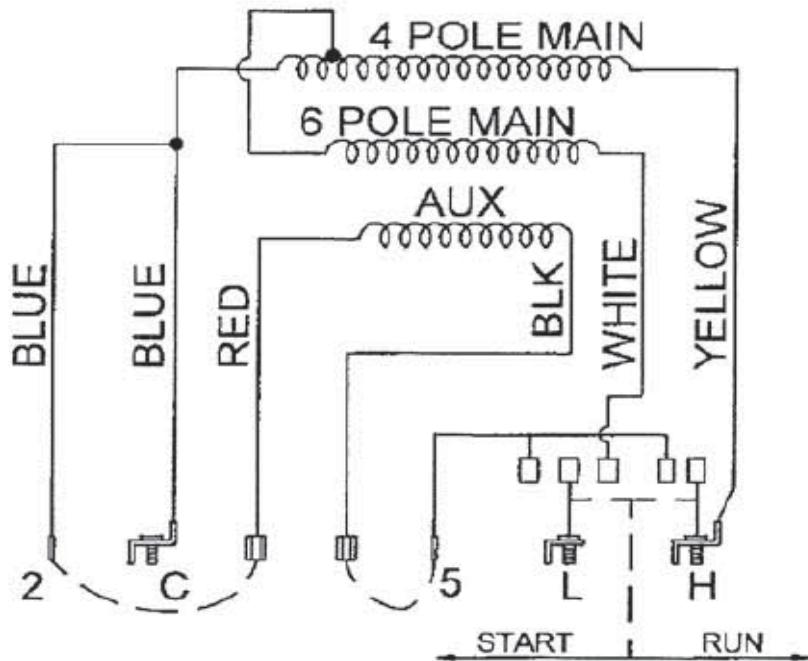
(1) S063JWP8098 ID: 2

DRAWING NO. PAGE 6 of 6  
**5K423BE** REV. -

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

5K423BE

REV.  
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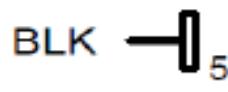
FOR CCW ROTATION LEAD END

BLACK ON 5  
RED ON 2

FOR CW ROTATION LEAD END

BLACK ON 2  
RED ON 5

## CONNECTIONS



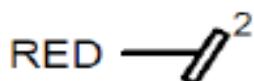
LOW SPEED

L

C



COMMON



HIGH SPEED

H

TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

DRAWING NO. PAGE 1 of 1  
5K423BE

REV.  
0

**Dayton**

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Part  
No**5K423BE**

# **SPLIT PHASE MOTOR**

**HP:** 1/2 / 1/4**PH:** 1**VOLTS:** 115**HZ:** 60**AMPS:** 7.5 / 5.4**FR:** 56**RPM:** 1725/1140**INS CL:** B**DUTY:** CONT**AMB:** 40 °C**SF:** 1.25**SFA:** 8.5 / 5.9**KVA CODE:** R**ENCL:** ODP**MTR REF:** S63JWP-8098**THERMALLY PROTECTED:** NONE

PROT. CODE



MFG. NO.



258501



E47479

**Disconnect Power Before Making  
Any Electrical Connections or Changes**

## **CONNECTIONS**

BLK

LOW SPEED

C

COMMON

RED

HIGH SPEED

**TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS**