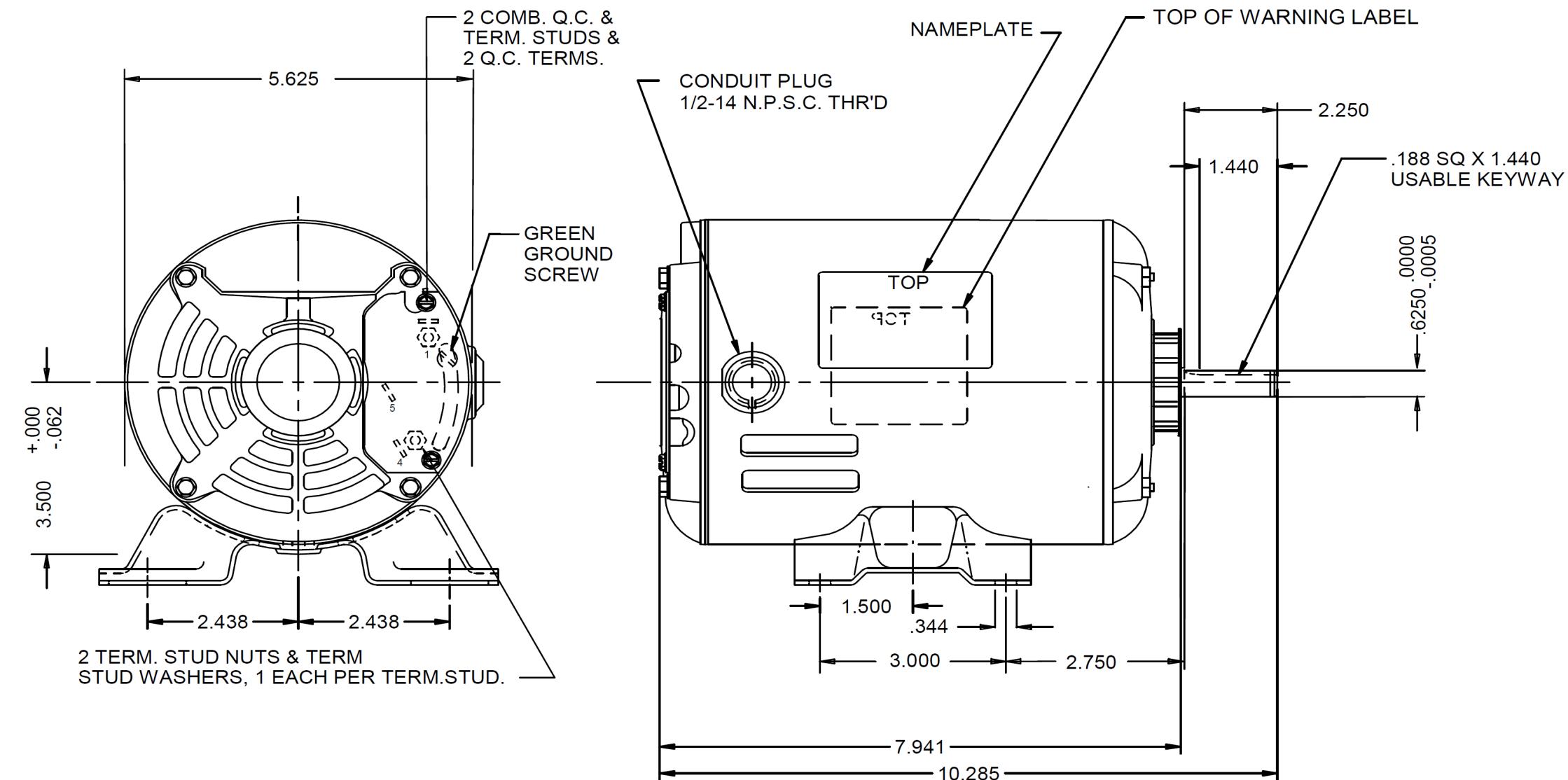


# Dimensional Drawing

**Dayton**®

**6XH82BE**

REV.



MODEL	HP.	VOLTS	HZ.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
S55RLP-8345	1/2	115	60	1725	BALL	CW/CCW	6XH82BE

DRAWING NO.	PAGE 1 of 1	REV.
<b>6XH82BE</b>		-

# Performance Data

**Dayton**®

**6XH82BE**

REV.  
-

## MOTOR PERFORMANCE

<b>HP:</b>	1/2 HP						
<b>Poles:</b>	4P						
<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	58.8					
<b>Power Factor:</b>	@ Rated Load	62.4					
<b>Amps:</b>	@ No Load						
	@ Rated Load	8.9					
	@ Service Factor	9.6					
	@ Locked Rotor	62.27					
<b>RPM:</b>	@ Rated Load						
<b>Ambient (°C):</b>	40						
<b>Altitude (FASL):</b>							
<b>Torques:</b>	Breakdown	61.58					
	Locked Rotor	44.91					
	Pull-Up	39.97					
	Rated Load						
	Service Factor						
<b>Watts:</b>	Rated Load						
<b>KVA Code:</b>							
<b>Temperature Rise:</b>	@ Rated Load	79.2					
	@ Service Factor	93.8					
<b>Thermal Protector:</b>	Trip Temp (°C)						
<b>Winding Material:</b>	Start (Auxiliary)				AI		
	Run (Main)				AI		
<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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6XH82BE -

# Performance Data

**Dayton**<sup>®</sup>

**6XH82BE**

REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S055RMG8315  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/2  
 Speed: 1725  
 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 #4  
 Run Cap: 0  
 Start Cap: 0 $\mu$ fd  
 Tested: 3/22/2012 3:47:26 PM  
 Gear Ratio: 1:1  
 Bearing Friction: -0.39 Oz-Ft  
 Windage Torque: -1.74 Oz-Ft

Special Points	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	62.27	6001	47	44.91	0.025	0.3	83.8
	115.0	62.00	5982	57	45.86	0.031	0.4	83.9
	115.0	61.66	5952	177	41.46	0.087	1.1	83.9
	115.0	61.61	5946	225	39.97	0.107	1.3	83.9
	115.0	61.24	5915	328	42.78	0.167	2.1	84.0
	115.0	60.57	5864	482	45.14	0.259	3.3	84.2
	115.0	59.75	5805	619	47.38	0.349	4.5	84.5
	115.0	58.97	5747	736	48.83	0.428	5.6	84.7
	115.0	58.01	5667	842	51.22	0.514	6.8	85.0
	115.0	56.97	5589	941	53.10	0.595	7.9	85.3
	115.0	55.89	5498	1029	54.38	0.666	9.0	85.5
	115.0	54.77	5401	1107	55.05	0.726	10.0	85.8
	115.0	53.66	5312	1177	54.98	0.771	10.8	86.1
	115.0	52.52	5208	1240	54.31	0.802	11.5	86.2
	115.0	51.37	5100	1298	53.01	0.819	12.0	86.3
	115.0	50.23	4990	1348	51.08	0.820	12.3	86.4
	115.0	49.13	4887	1394	48.50	0.805	12.3	86.5
	115.0	48.08	4765	1437	45.38	0.776	12.2	86.2
	115.0	47.04	4662	1475	42.08	0.739	11.8	86.2
	115.0	16.79	1596	1554	58.02	1.073	50.2	82.7
	115.0	16.59	1582	1594	54.99	1.043	49.2	82.9
	115.0	15.53	1477	1617	52.73	1.015	51.3	82.7
	115.0	14.69	1384	1634	50.42	0.981	52.9	81.9
	115.0	13.81	1286	1650	47.66	0.936	54.3	80.9
	115.0	12.83	1173	1667	44.44	0.882	56.1	79.5
	115.0	11.92	1063	1684	40.49	0.812	56.9	77.5
	115.0	11.00	949	1701	36.52	0.740	58.1	75.1
	115.0	10.07	837	1717	32.22	0.659	58.7	72.3
	115.0	9.33	708	1731	26.29	0.542	57.1	66.0
	115.0	8.51	592	1749	20.98	0.437	55.1	60.4
	115.0	8.11	465	1764	14.02	0.294	47.2	49.8
	115.0	7.71	332	1779	6.65	0.141	31.6	37.5
	115.0	7.48	218	1791	0.00	0.000	0.0	25.4

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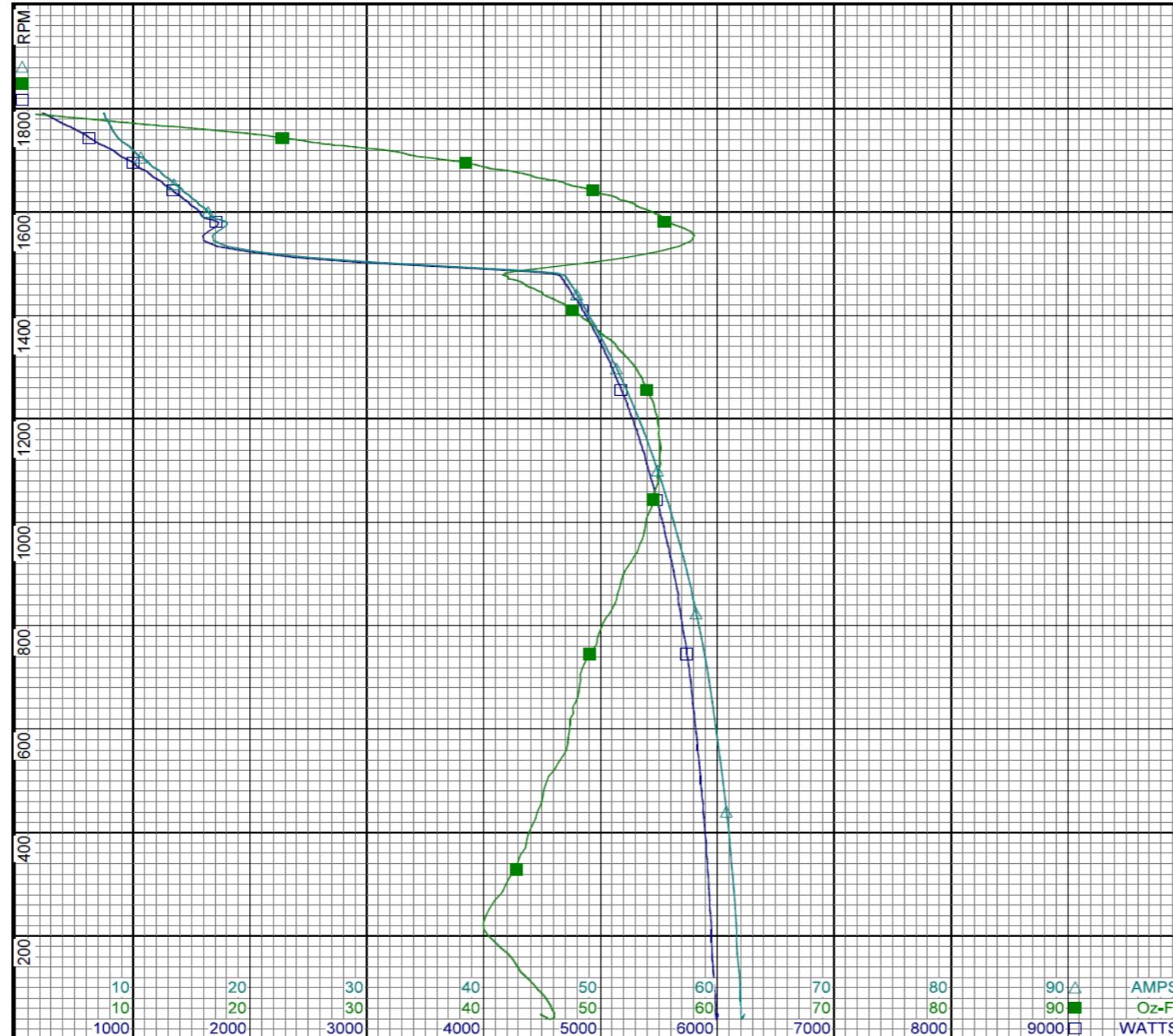
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data

**Dayton**®

**6XH82BE**

REV.  
-



**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) S055RMG8315 ID: 1

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**6XH82BE**

REV.  
-

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

**6XH82BE**

REV.  
-

## Dayton Manufacturing Company

**Motor Description**

Model: S055RMG8315  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/2  
 Speed: 1725  
 Phase: 1  
 Protector: NONE

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

Run Cap: 0  
 Start Cap: 0 $\mu$ fd  
 Tested: 3/22/2012 3:45:42 PM  
 Gear Ratio: 1:1  
 Bearing Friction: -0.34 Oz-Ft  
 Windage Torque: -1.73 Oz-Ft

**Special Points**

	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
0.5 HP	115.0	8.84	635	1738	24.16	0.500	58.8	62.4
24.4 OZ-FT	115.0	8.88	640	1738	24.40	0.505	58.8	62.7
1725 RPM	115.0	9.53	750	1725	29.66	0.609	60.6	68.5
30 OZ-FT	115.0	9.56	757	1724	30.00	0.616	60.7	68.9
<b>BDT OZ-FT</b>								
	115.0	21.67	2074	1490	61.58	1.093	39.3	83.2
	115.0	22.63	2159	1464	61.12	1.065	36.8	82.9
	115.0	24.35	2300	1414	59.61	1.004	32.6	82.1
	115.0	25.82	2414	1364	57.40	0.932	28.8	81.3
	115.0	27.14	2517	1311	54.44	0.850	25.2	80.6
	115.0	28.33	2602	1258	51.21	0.767	22.0	79.9
	115.0	29.49	2682	1198	47.46	0.677	18.8	79.1
	115.0	30.56	2751	1135	43.32	0.585	15.9	78.3
	115.0	31.50	2807	1069	39.07	0.497	13.2	77.5
	115.0	32.34	2857	998	34.68	0.412	10.8	76.8
	115.0	33.07	2896	927	30.50	0.337	8.7	76.2
	115.0	56.41	5327	877	48.57	0.507	7.1	82.1
	115.0	59.58	5802	849	51.06	0.516	6.6	84.7
	115.0	60.71	5897	755	49.52	0.445	5.6	84.5
	115.0	61.16	5928	653	47.87	0.372	4.7	84.3
	115.0	61.43	5938	552	47.04	0.309	3.9	84.1
	115.0	61.65	5959	446	45.92	0.244	3.1	84.0
	115.0	61.83	5971	334	42.83	0.171	2.1	84.0
	115.0	61.85	5969	219	41.35	0.108	1.3	83.9
	115.0	61.71	5957	98	44.25	0.052	0.6	83.9

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6XH82BE

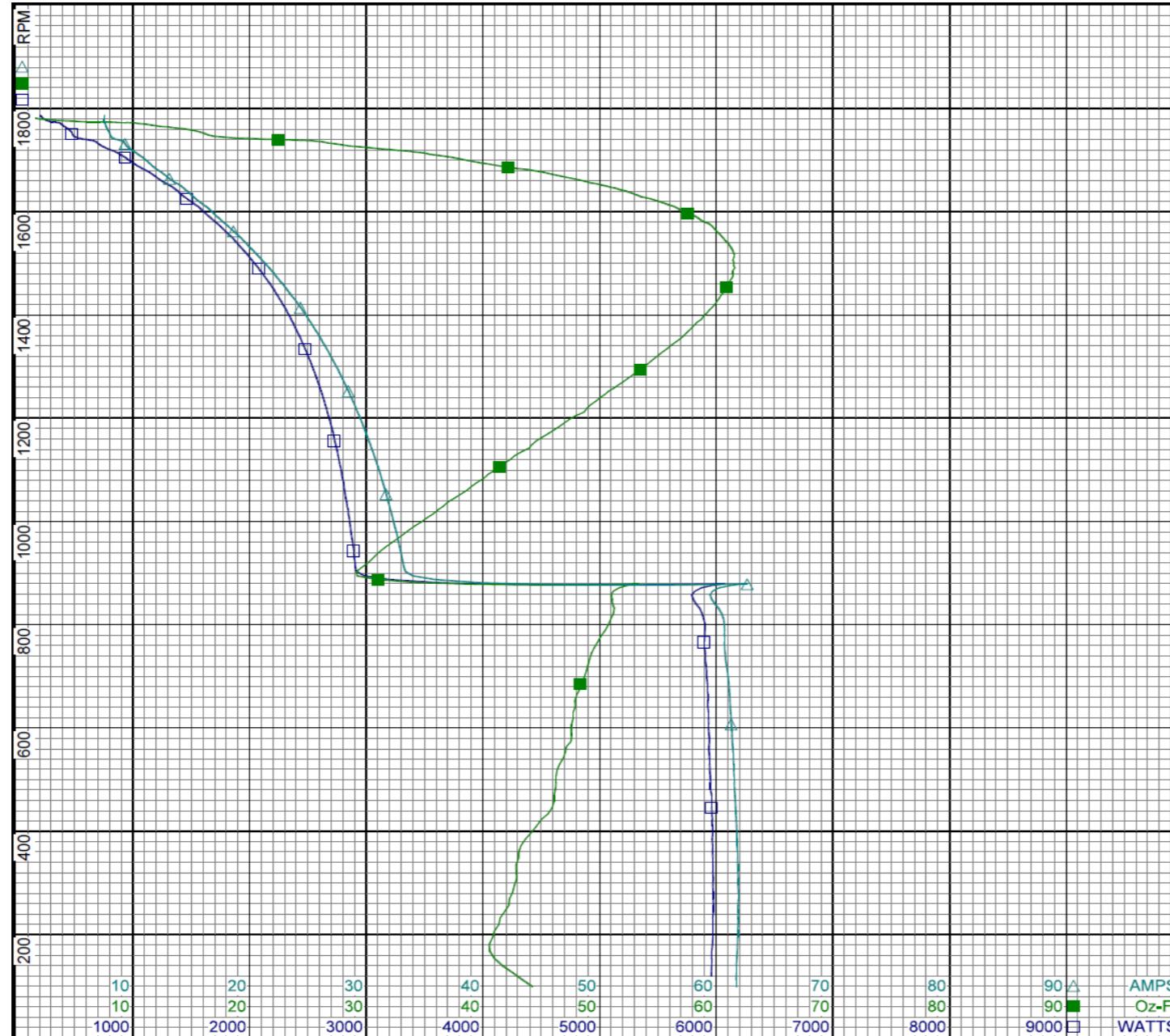
REV.  
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# Performance Data

**Dayton**®

**6XH82BE**

REV.  
-



**Dayton**

#### Curve Descriptions:

Motor(1) Test 20 Run 115V 60 Hz 4P  
Attempt #2

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

#### Motor Ratings:

(1) S055RMG8315 ID: 1

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

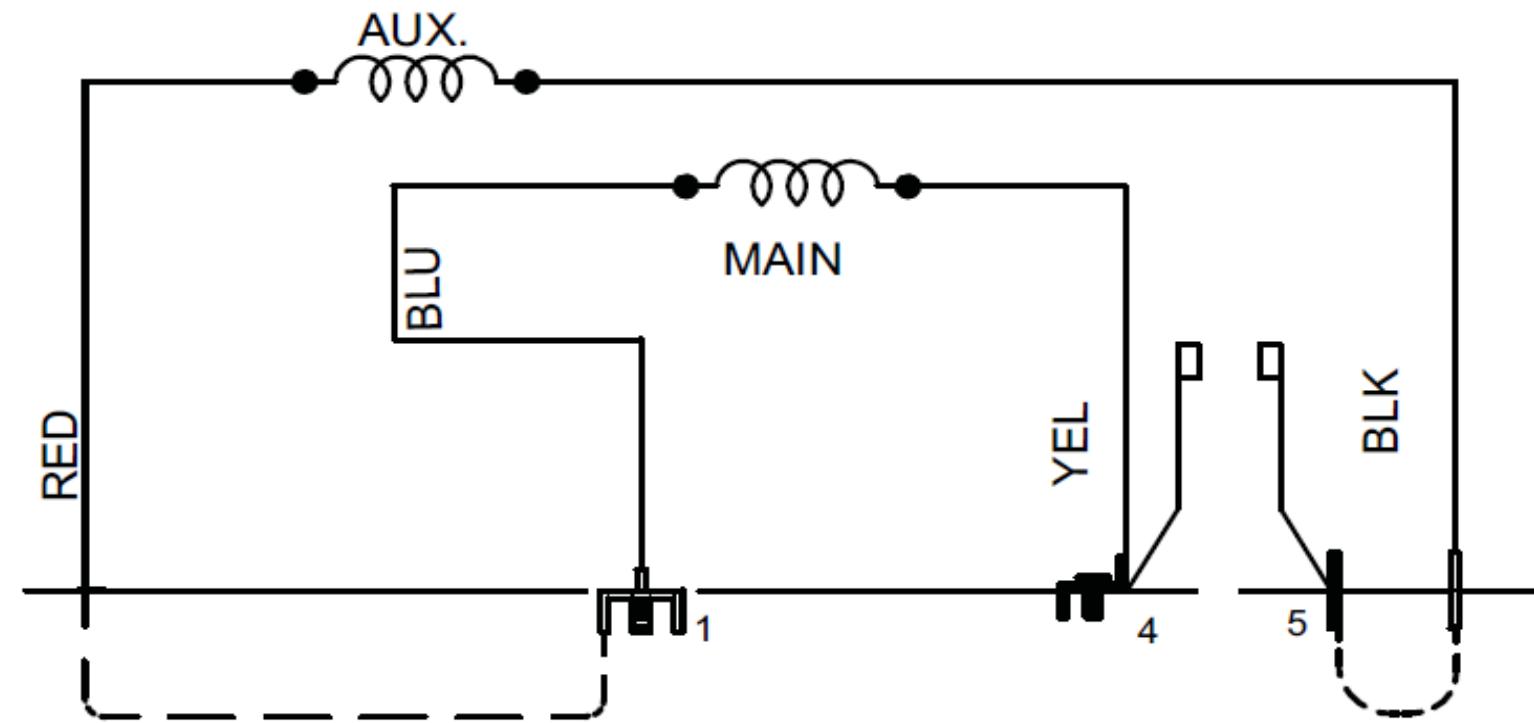
DRAWING NO. PAGE 4 of 4  
**6XH82BE**

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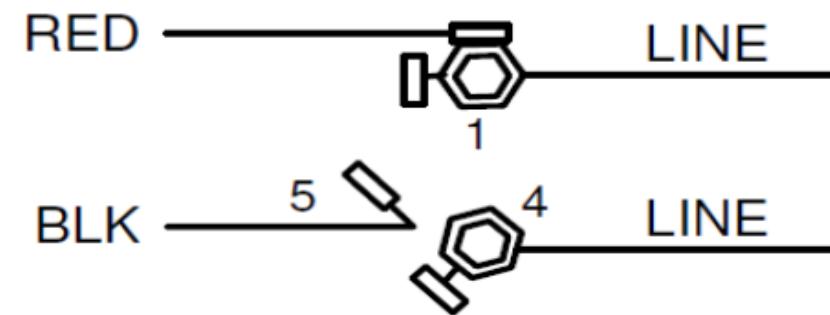
**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

6XH82BE

REV.  
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## CONNECTIONS



TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

DRAWING NO. PAGE 1 of 1  
6XH82BE REV. -

**Dayton**®

Part  
No

**6XH82BE SPLIT PHASE  
MOTOR**

HP: 1/2

PH: 1

VOLTS: 115

HZ: 60

AMPS: 8.9

FR: 56Z

RPM: 1725

INS CL: F

DUTY: CONT

AMB: 40 °C

SF: 1.25

SFA: 9.6

KVA CODE: R

ENCL: ODP

MTR REF: S55RLP-8345

THERMALLY PROTECTED: NONE

MFG. NO. 



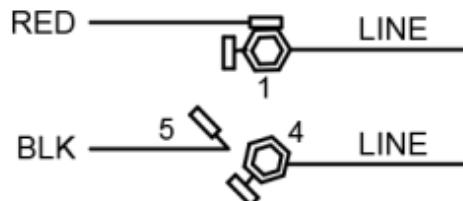
258501



E47479

Disconnect Power Before Making  
Any Electrical Connections or Changes

**CONNECTIONS**



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