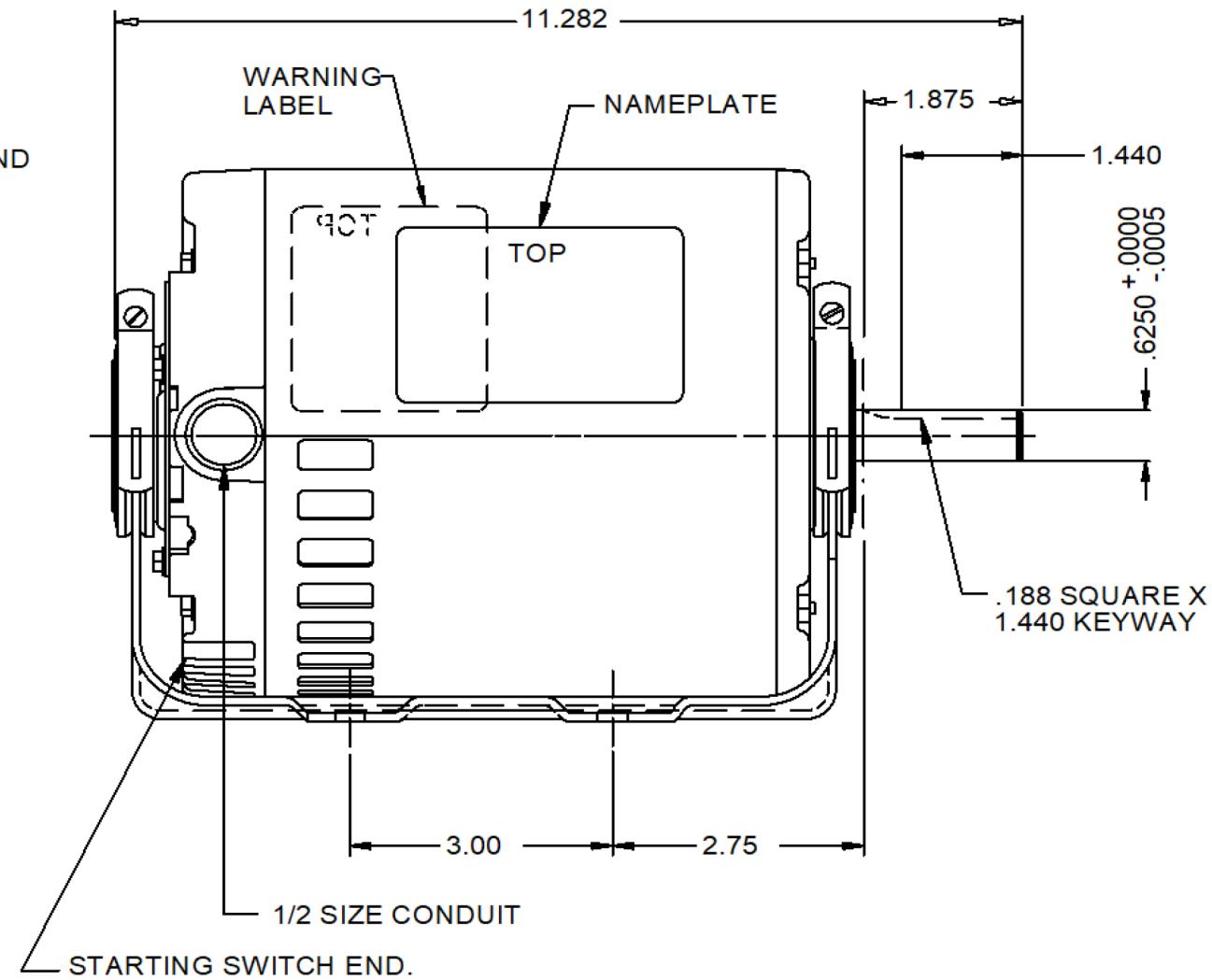
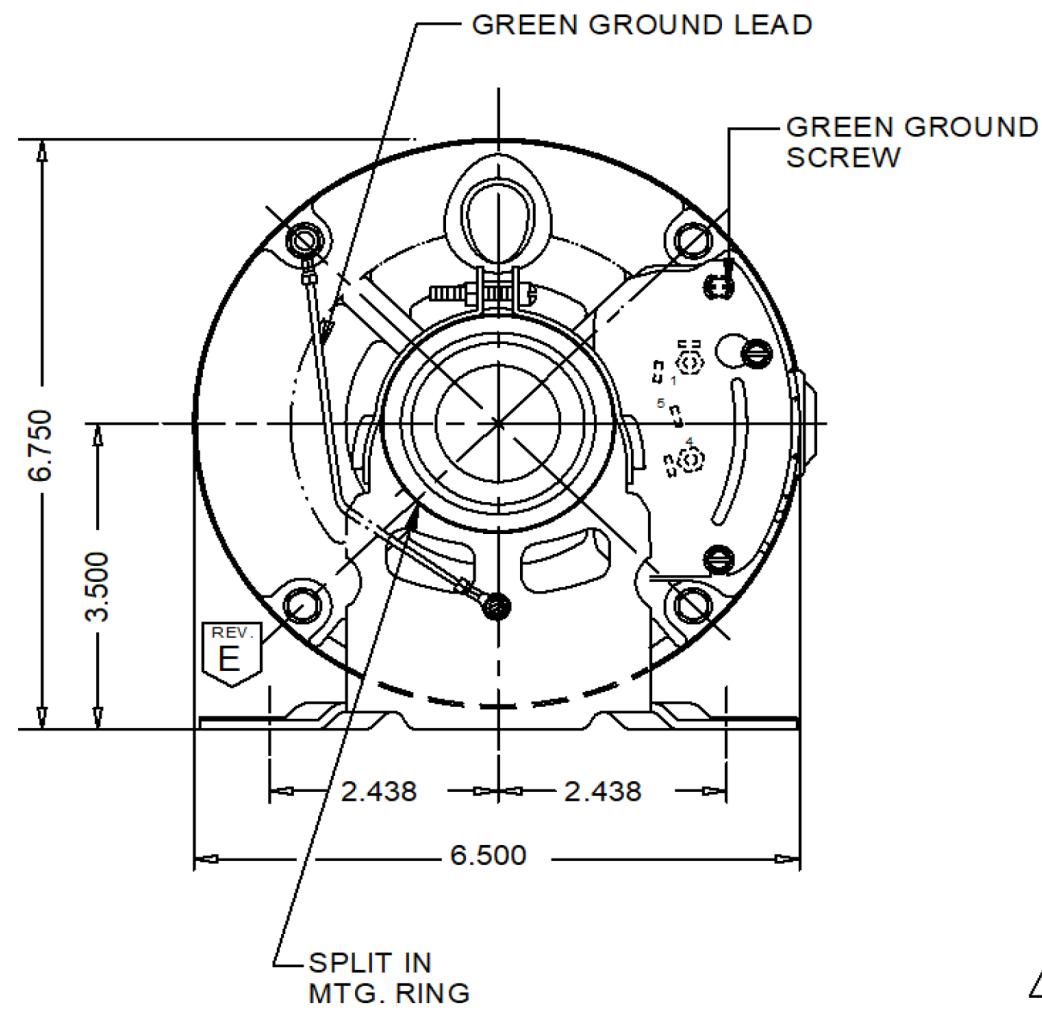


6XJ13BE

REV.  
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SHAFT KEY AND  
INSTRUCTION BOOK SHIPPED  
AS A KIT IN A PLASTIC BAG



MODEL	HP.	VOLTS	HZ.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
6XJ13BE	3/4	115	60	1725	BALL	CW. DR. END (REV.)	6XJ13BE

DRAWING NO. PAGE 1 of 1  
6XJ13BE REV. -

# Performance Data

**Dayton**®

**6XJ13BE**

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

<b>HP:</b>	3/4							
<b>Poles:</b>	4							
<b>Ambient (°C):</b>	40							
<b>Altitude (FASL):</b>								
<b>No. of Speeds:</b>	1							
<b>Volts:</b>	115	115						
<b>Hz:</b>	60	60						
<b>Service Factor:</b>	1.25							
<b>Efficiency:</b>	@ Rated Load	64.20						
<b>Power Factor:</b>	@ Rated Load	66.80						
<b>Amps:</b>	@ No Load	9.29						
	@ Rated Load	11.34						
	@ Service Factor	12.80						
	@ Locked Rotor	62.93						
<b>RPM:</b>	@ Rated Load	1746						
<b>Torques:</b>	Breakdown	88.2						
	Locked Rotor	36.89						
	Pull-Up	36.89						
	Rated Load	36.09						
	Service Factor	45.59						
<b>Watts:</b>	Rated Load	871						
<b>KVA Code:</b>			M					
<b>Temperature Rise:</b>	@ Rated Load	59.10						
	@ Service Factor	74.10						
<b>Thermal Protector:</b>	Trip Temp (°C)	N/A						
<b>Winding Material:</b>	Start (Auxiliary)		Aluminum					
	Run (Main)		Aluminum					
<b>Capacitor(s):</b>	Start (MFD / Volts)		N/A					
	No. of Start Capacitors		N/A					
	Run (MFD / Volts)		N/A					
	No. of Run Capacitors		N/A					

## LOW SPEED PERFORMANCE DATA:

<b>HP:</b>							
<b>Poles:</b>							
<b>Volts:</b>		120	208	230	277	460	100
<b>Hz:</b>		60	60	60	60	60	50
<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>	BreakDown						
	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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6XJ13BE

REV.

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

# Performance Data

**Dayton**<sup>®</sup>

**6XJ13BE**

REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S063JFU8089  
Motor ID: 1  
Poles: 4  
Volts: 115  
Frequency: 60  
HP: 3/4  
Speed: 1725  
Phase: 1  
Protector: NONE

### Test Conditions

Test Type: Start  
Test Number: 3  
Poles: 4  
Volts: 115  
Hz: 60  
Rotation:  
Special Cond:  
Speed Conn:  
TestBoard: Amtps Performance Fixture #3  
Environment: 22.1 Deg C 48 % RH 995 hPa  
Tested: 6/15/2015 10:37:53 AM  
Tested By: Sharp, Gerald  
Bearing Friction: -0.44 Oz-Ft  
Windage Torque: -1.77 Oz-Ft

Special Points PUT OZ-FT	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	62.93	5647	2	36.89	0.001	0.0	78.0
	115.0	62.93	5647	2	36.89	0.001	0.0	78.0
	115.0	62.74	5632	34	37.65	0.015	0.2	78.1
	115.0	62.52	5612	187	41.61	0.093	1.2	78.1
	115.0	61.93	5571	342	47.61	0.194	2.6	78.2
	115.0	61.19	5520	482	52.11	0.299	4.0	78.4
	115.0	60.69	5466	609	51.60	0.374	5.1	78.3
	115.0	60.49	5464	723	47.82	0.411	5.6	78.5
	115.0	59.74	5450	828	53.17	0.524	7.2	79.3
	115.0	58.71	5404	927	58.73	0.648	8.9	80.0
	115.0	57.56	5339	1016	64.57	0.781	10.9	80.7
	115.0	56.32	5265	1098	69.81	0.912	12.9	81.3
	115.0	55.03	5188	1171	73.85	1.029	14.8	82.0
	115.0	53.65	5090	1239	76.87	1.134	16.6	82.5
	115.0	52.20	4985	1300	79.16	1.225	18.3	83.0
	115.0	50.71	4872	1357	79.24	1.280	19.6	83.5
	115.0	48.29	4634	1407	79.27	1.328	21.4	83.4
	115.0	31.14	2912	1456	84.91	1.471	37.7	81.3
	115.0	29.01	2733	1498	85.45	1.523	41.6	81.9
	115.0	26.96	2555	1535	84.92	1.552	45.3	82.4
	115.0	24.91	2368	1570	83.28	1.557	49.1	82.7
	115.0	22.90	2181	1601	80.28	1.531	52.4	82.8
	115.0	20.86	1980	1630	75.77	1.470	55.4	82.5
	115.0	18.91	1778	1656	70.72	1.394	58.5	81.8
	115.0	16.91	1562	1681	63.92	1.279	61.1	80.3
	115.0	15.04	1347	1703	55.88	1.133	62.8	77.9
	115.0	13.33	1135	1725	47.04	0.966	63.5	74.1
	115.0	11.72	913	1744	37.10	0.770	63.0	67.7
	115.0	10.40	684	1765	25.48	0.535	58.3	57.2
	115.0	9.55	448	1784	12.20	0.259	43.2	40.8
	115.0	9.37	269	1799	1.06	0.023	6.3	25.0

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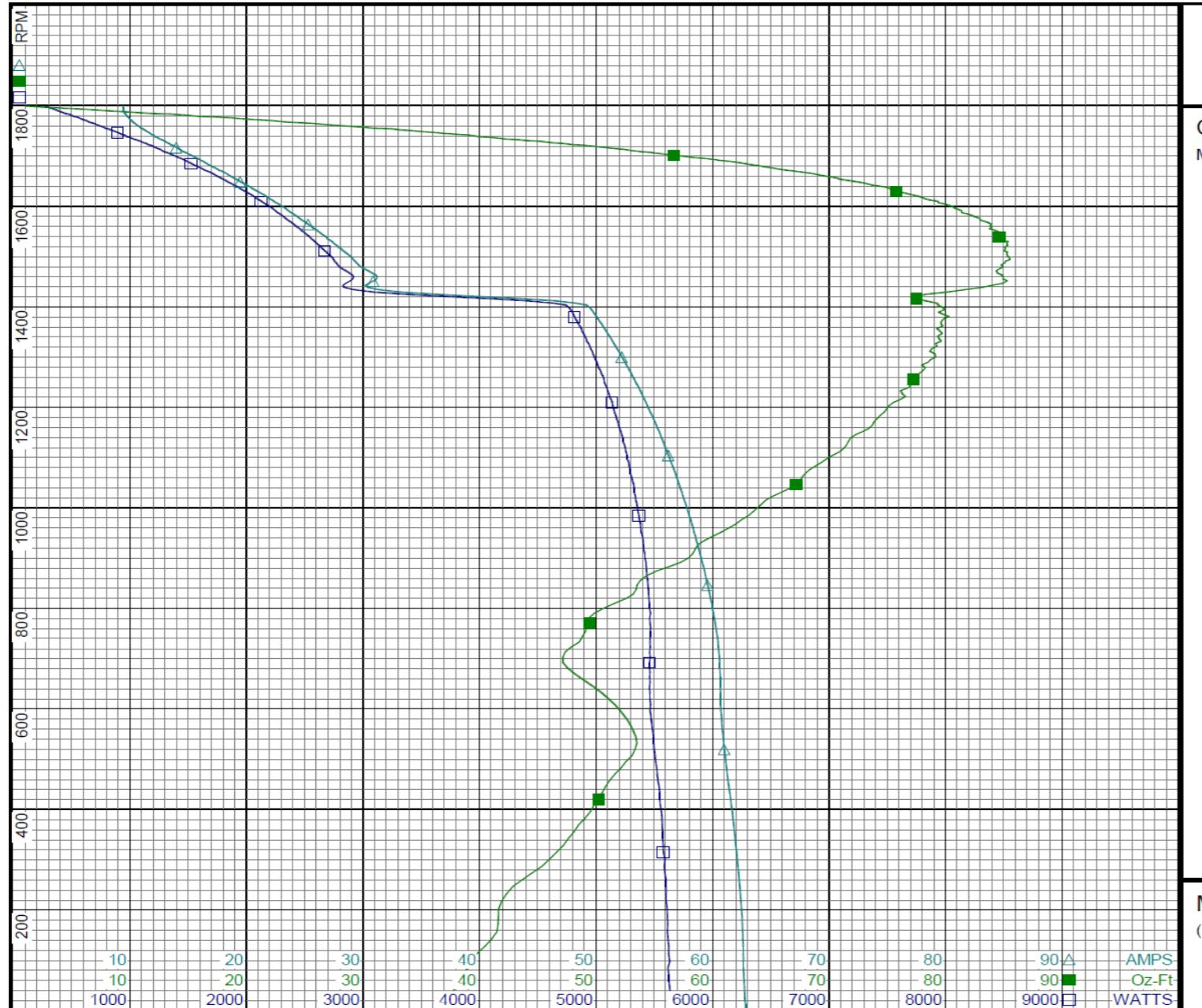
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data

**Dayton**®

**6XJ13BE**

REV.  
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**Dayton**®

Curve Descriptions:  
Motor(1) Test 3 Start 115V 60 Hz 4P

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

Motor Ratings:  
(1) S063JFU8089 ID: 1

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6XJ13BE

REV.  
-

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

**6XJ13BE**

REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S063JFU8089  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 3/4  
 Speed: 1725  
 Phase: 1  
 Protector: NONE

### Test Conditions

Test Type: Run  
 Test Number: 1  
 Poles: 4  
 Volts: 115  
 Hz: 60  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Amtps Performance Fixture #3  
 Environment: 22.1 Deg C 48 % RH 995 hPa  
 Tested: 6/15/2015 10:35:34 AM  
 Tested By: Sharp, Gerald  
 Bearing Friction: -0.44 Oz-Ft  
 Windage Torque: -1.86 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	9.29	230	1795	0.00	0.000	0.0	21.5
	115.0	9.50	479	1776	14.85	0.314	48.9	43.8
	115.0	10.50	727	1757	28.68	0.600	61.6	60.2
36.5 OZ-FT	115.0	11.39	879	1745	36.50	0.758	64.4	67.1
0.75 HP	115.0	11.34	871	1746	36.09	0.750	64.2	66.8
	115.0	12.09	981	1736	41.21	0.852	64.8	70.6
45.7 OZ-FT	115.0	12.82	1077	1728	45.70	0.940	65.1	73.1
0.938 HP	115.0	12.80	1074	1728	45.59	0.938	65.1	73.0
1725 RPM	115.0	13.08	1110	1725	47.17	0.969	65.1	73.7
	115.0	13.78	1203	1717	51.28	1.048	65.0	75.9
	115.0	15.78	1442	1695	60.78	1.226	63.4	79.5
	115.0	17.76	1665	1672	68.73	1.368	61.3	81.5
	115.0	19.91	1891	1646	75.57	1.481	58.4	82.6
	115.0	22.09	2109	1619	80.97	1.560	55.2	83.0
	115.0	24.10	2298	1589	84.41	1.597	51.8	82.9
	115.0	26.20	2493	1558	87.03	1.614	48.3	82.7
BDT OZ-FT	115.0	28.07	2656	1526	88.22	1.602	45.0	82.3
	115.0	28.26	2675	1523	87.96	1.595	44.5	82.3
	115.0	30.24	2839	1485	88.05	1.557	40.9	81.6
	115.0	32.18	2995	1445	86.57	1.490	37.1	80.9
	115.0	34.05	3136	1401	84.00	1.401	33.3	80.1
	115.0	35.82	3264	1352	80.53	1.296	29.6	79.2
	115.0	37.49	3374	1300	76.07	1.178	26.0	78.3
	115.0	39.05	3473	1244	70.52	1.044	22.4	77.3
	115.0	40.52	3556	1183	64.28	0.905	19.0	76.3
	115.0	41.87	3630	1117	57.77	0.768	15.8	75.4
	115.0	43.11	3690	1046	50.29	0.626	12.7	74.4
	115.0	44.25	3740	970	42.13	0.486	9.7	73.5
	115.0	45.29	3777	887	33.37	0.352	7.0	72.5
	115.0	55.08	4820	801	43.90	0.419	6.5	76.1
	115.0	61.55	5559	713	48.43	0.411	5.5	78.5
	115.0	62.00	5579	612	49.97	0.364	4.9	78.2
	115.0	62.05	5600	506	53.39	0.321	4.3	78.5
	115.0	62.40	5634	387	48.98	0.226	3.0	78.5
	115.0	62.64	5647	264	43.28	0.136	1.8	78.4
	115.0	62.81	5648	130	39.73	0.061	0.8	78.2

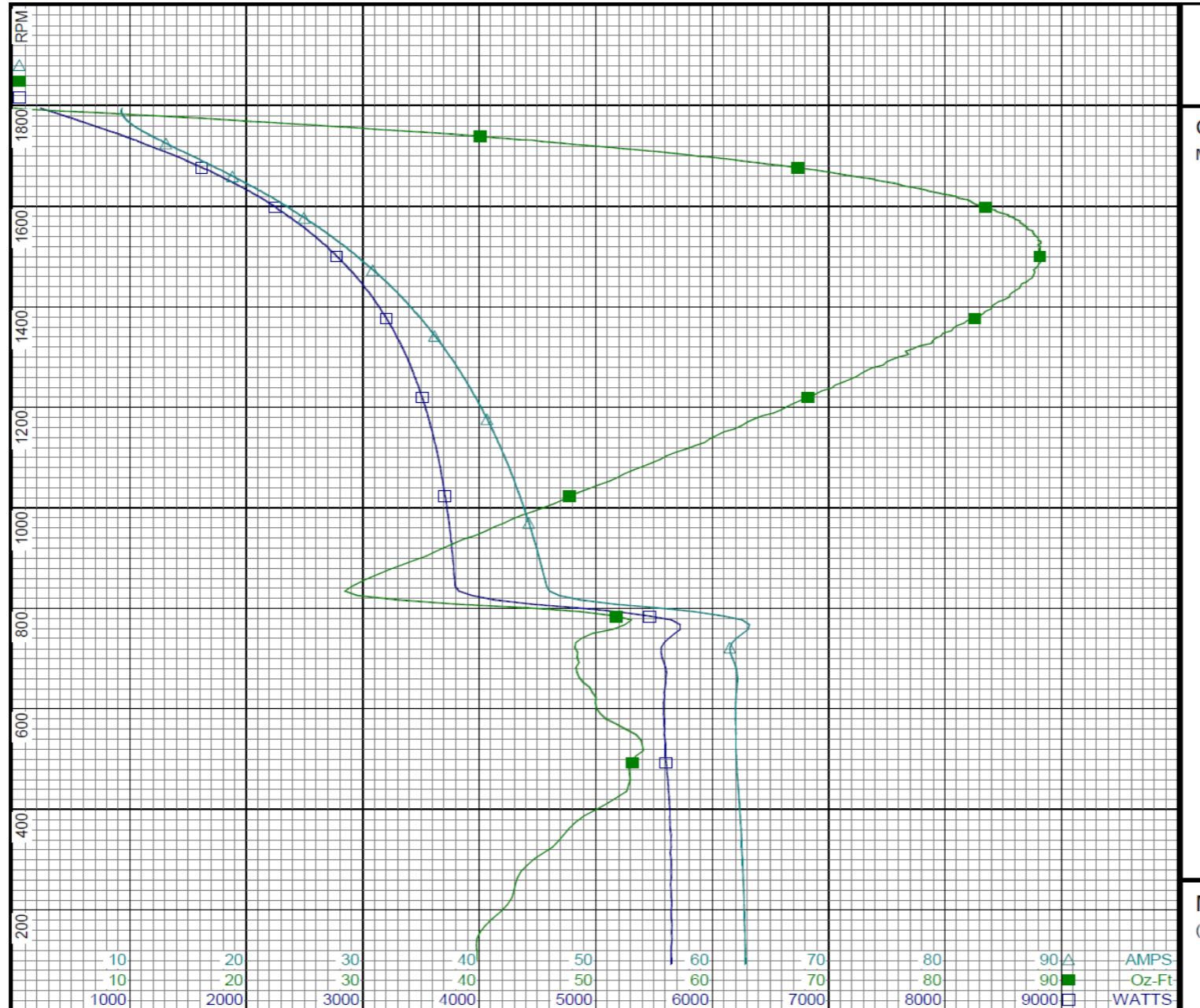
DRAWING NO.	PAGE 3 of 4	REV.
6XJ13BE		-

# Performance Data

**Dayton**®

**6XJ13BE**

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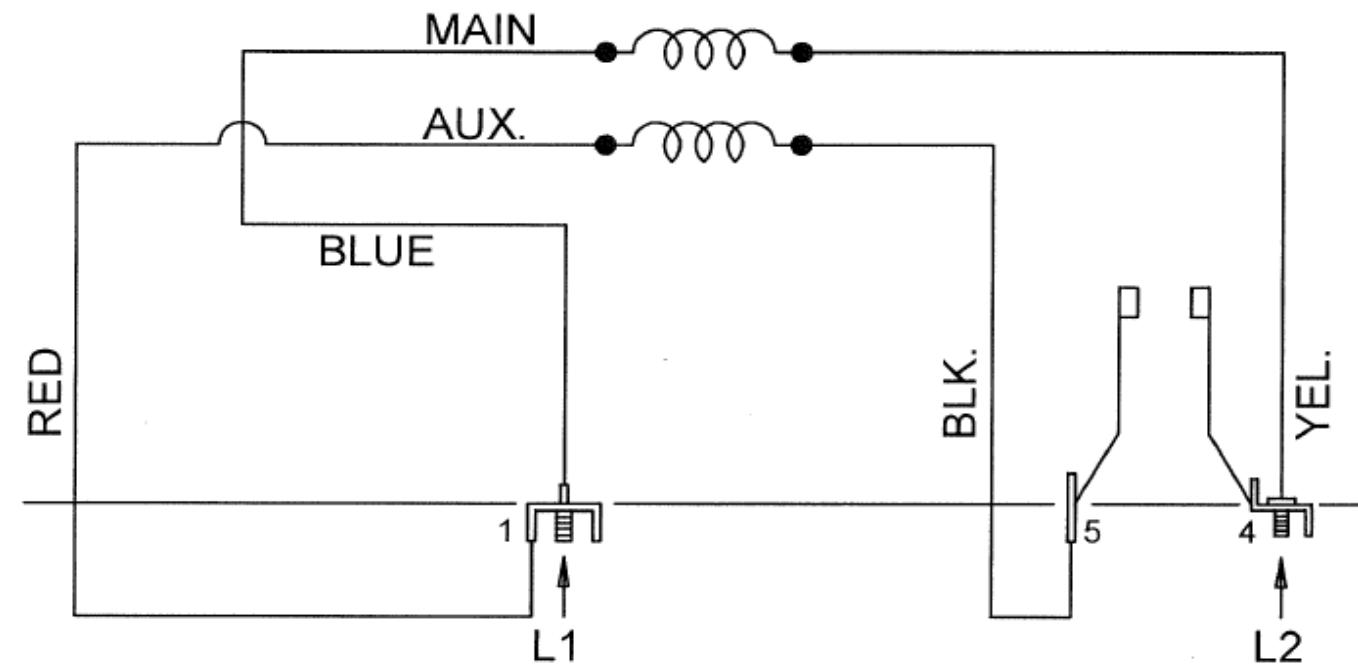
**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Wiring Diagram

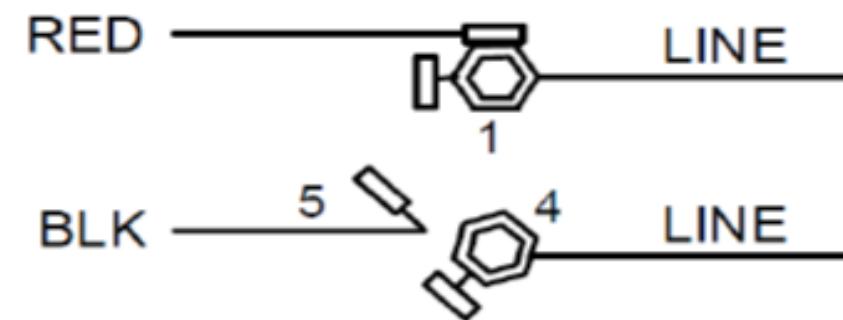
**Dayton**®

**6XJ13BE**

REV.  
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## CONNECTIONS



TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

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Part  
No

6XJ13BE



# SPLIT PHASE MOTOR

HP: 3/4

PH: 1

Disconnect Power Before Making  
Any Electrical Connections or Changes

VOLTS: 115

Hz: 60

AMPS: 11.3

FR: 56

RPM: 1725

INS CL: B

DUTY: CONT

AMB: 40°C

SF: 1.25

SFA: 12.8

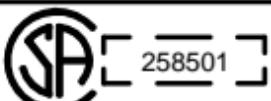
KVA CODE: M

ENCL: ODP

MTR REF: S63JFU-8089

THERMALLY PROTECTED: NONE

MFG. NO.



258501



E47479

RED

BLK

LINE

LINE



4

## CONNECTIONS

TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS