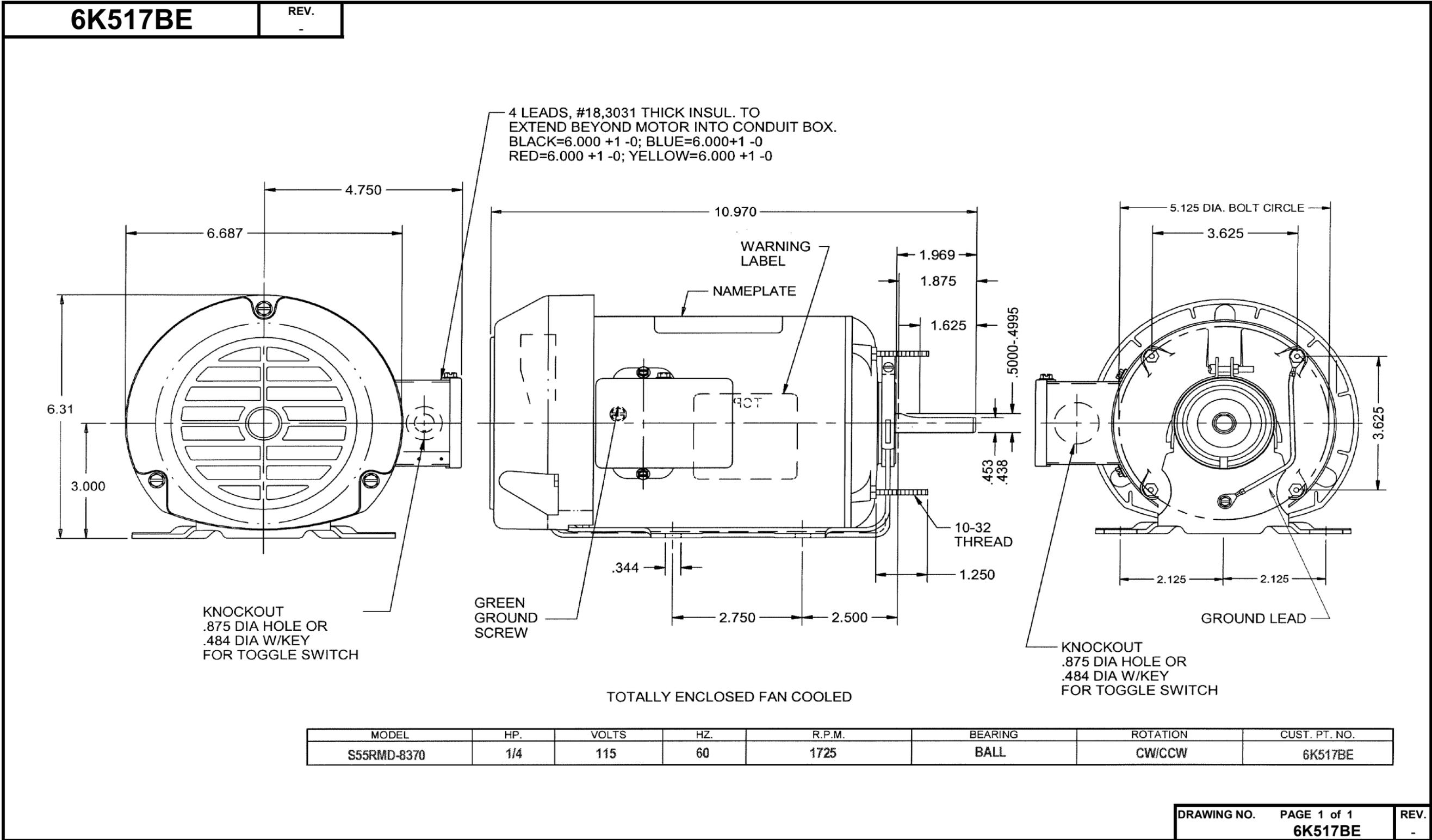


# Dimensional Drawing



# Performance Data



**6K517BE**

REV.  
-

## MOTOR PERFORMANCE

<b>HP:</b>	1/4HP							
<b>Poles:</b>	4							
<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							
<b>Efficiency:</b>	@ Rated Load	55.2						
<b>Power Factor:</b>	@ Rated Load	60.4						
<b>Amps:</b>	@ No Load							
	@ Rated Load	4.9						
	@ Service Factor	N/A						
	@ Locked Rotor	42.71						
<b>RPM:</b>	@ Rated Load							
<b>Ambient (°C):</b>								
<b>Altitude (FASL):</b>								
<b>Torques:</b>	Breakdown	35.34						
	Locked Rotor	28.21						
	Pull-Up	26.69						
	Rated Load							
	Service Factor							
<b>Watts:</b>	Rated Load							
<b>KVA Code:</b>								
<b>Temperature Rise:</b>	@ Rated Load	59.8						
	@ Service Factor							
<b>Thermal Protector:</b>	Trip Temp (°C)							
<b>Winding Material:</b>	Start (Auxiliary)	AI						
	Run (Main)	AI						
<b>Capacitor(s):</b>	Start (MFD / Volts)	N/A						
	No. of Start Capacitors							
	Run (MFD / Volts)	N/A						
	No. of Run Capacitors							

### LOW SPEED PERFORMANCE DATA:

<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							

DRAWING NO. PAGE 1 REV.  
6K517BE -

# Performance Data



**6K517BE**      REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S055PYV8338  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/4  
 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: 4/26/2012 10:20:24 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:  
 Windage Torque: -2.04 Oz-Ft  
 TestBoard: Amtps Performance Fixture #4

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	42.71	4266	24	28.21	0.008	0.1	86.9
	115.0	42.47	4245	34	28.22	0.011	0.2	86.9
	115.0	42.23	4212	174	26.99	0.056	1.0	86.7
PUT OZ-FT	115.0	42.20	4214	188	26.69	0.060	1.1	86.8
	115.0	41.93	4188	334	27.54	0.110	2.0	86.9
	115.0	41.47	4152	488	32.12	0.187	3.4	87.0
	115.0	40.94	4109	626	35.13	0.262	4.8	87.3
	115.0	40.42	4065	744	37.62	0.333	6.1	87.5
	115.0	39.83	4016	851	40.23	0.408	7.6	87.7
	115.0	39.17	3962	947	42.50	0.479	9.0	88.0
	115.0	38.48	3902	1034	44.29	0.545	10.4	88.2
	115.0	37.78	3840	1113	45.74	0.606	11.8	88.4
	115.0	37.05	3777	1184	47.03	0.663	13.1	88.6
	115.0	36.30	3710	1249	47.63	0.708	14.2	88.9
	115.0	35.57	3641	1307	48.00	0.747	15.3	89.0
	115.0	34.82	3572	1360	47.78	0.774	16.2	89.2
	115.0	34.08	3502	1408	46.96	0.787	16.8	89.3
	115.0	33.34	3426	1450	45.66	0.788	17.2	89.4
	115.0	12.37	1149	1466	31.70	0.553	35.9	80.8
	115.0	12.43	1170	1507	34.16	0.613	39.1	81.9
	115.0	11.44	1084	1553	34.15	0.631	43.4	82.4
	115.0	10.46	993	1590	33.26	0.630	47.3	82.6
	115.0	9.55	905	1619	31.81	0.613	50.6	82.4
	115.0	8.72	821	1646	30.02	0.588	53.4	81.9
	115.0	7.95	738	1669	27.93	0.555	56.1	80.8
	115.0	7.19	654	1690	25.27	0.508	58.0	79.0
	115.0	6.49	567	1708	22.02	0.448	58.9	76.0
	115.0	5.90	488	1726	18.68	0.384	58.7	71.9
	115.0	5.22	399	1743	14.77	0.306	57.3	66.4
	115.0	4.78	316	1760	10.54	0.221	52.0	57.6
	115.0	4.41	224	1776	5.45	0.115	38.4	44.2
	115.0	4.18	130	1792	0.00	0.000	0.0	27.0

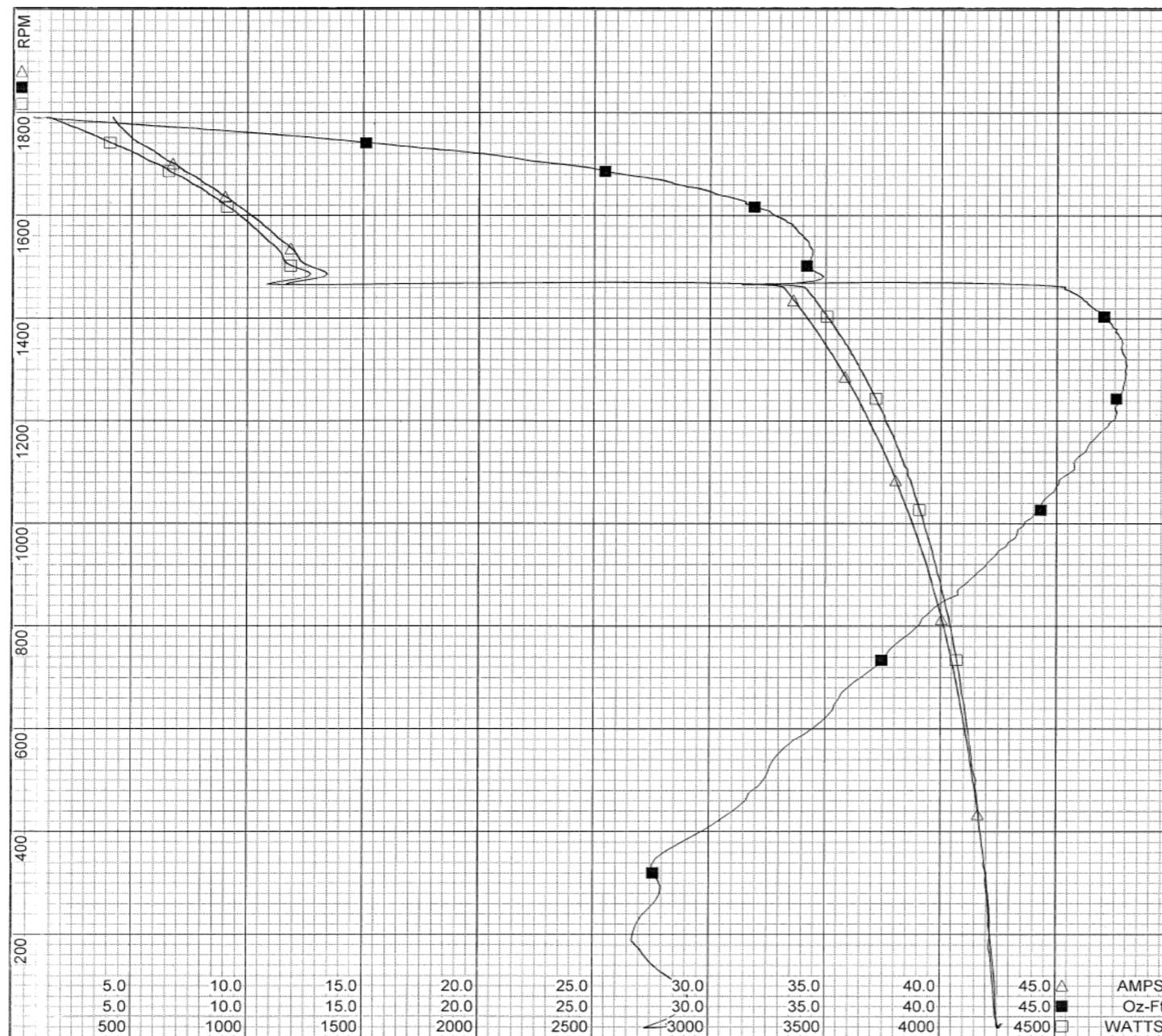
DRAWING NO.      PAGE 1 of 4      REV.  
**6K517BE**      -

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

# Performance Data



**6K517BE**      REV.  
-



**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) S055PYV8338 ID: 1

DRAWING NO.	PAGE 2 of 4	REV.
6K517BE		-

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

# Performance Data



**6K517BE**      REV.  
-

## Dayton Manufacturing Company

### Motor Description

Model: S055PYV8338  
 Motor ID: 1  
 Poles: 4  
 Volts: 115  
 Frequency: 60  
 HP: 1/4  
 Speed: 1725  
 Phase: 1  
 Protector: NONE

### Test Conditions

Test Type: Run      Run Cap: 0  
 Test Number: 20      Start Cap: 0µfd  
 Poles: 4  
 Volts: 115      Tested: 4/26/2012 10:13:30 AM  
 Hz: 60      Tested By: Sharp, Gerald  
 Rotation:  
 Special Cond:  
 Speed Conn:  
 TestBoard: Amtps Performance Fixture #4  
 Gear Ratio: 1:1  
 Bearing Friction: -0.65 Oz-Ft  
 Windage Torque: -2.24 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	4.02	119.9	1789	0.00	0.000	0.0	25.9
	115.0	4.14	192.9	1777	4.29	0.091	35.1	40.5
	115.0	4.46	264.9	1766	8.20	0.172	48.5	51.6
0.25 HP	115.0	4.86	337.6	1752	11.99	0.250	55.2	60.4
12.2 OZ-FT	115.0	4.89	341.9	1751	12.20	0.254	55.5	60.8
	115.0	4.91	346.2	1750	12.41	0.259	55.7	61.3
	115.0	5.42	435.6	1734	16.82	0.347	59.4	69.9
1725 RPM	115.0	5.75	483.4	1725	18.92	0.389	60.0	73.1
	115.0	6.14	531.5	1716	20.90	0.427	59.9	75.2
	115.0	6.85	617.6	1694	24.24	0.489	59.0	78.4
	115.0	7.85	731.7	1671	28.02	0.557	56.8	81.0
	115.0	8.80	834.4	1645	30.89	0.605	54.1	82.4
	115.0	9.76	931.3	1615	33.04	0.635	50.9	83.0
	115.0	10.77	1029.1	1581	34.48	0.649	47.0	83.1
	115.0	11.75	1118.7	1546	35.16	0.647	43.2	82.8
BDT OZ-FT	115.0	12.37	1173.0	1520	35.34	0.640	40.7	82.5
	115.0	12.68	1199.5	1507	35.22	0.632	39.3	82.2
	115.0	13.54	1271.8	1465	34.68	0.605	35.5	81.7
	115.0	14.33	1331.6	1422	33.76	0.571	32.0	80.8
	115.0	15.07	1386.7	1375	32.26	0.528	28.4	80.0
	115.0	15.73	1431.4	1327	30.93	0.489	25.5	79.1
	115.0	16.33	1472.1	1276	29.20	0.444	22.5	78.4
	115.0	16.90	1507.0	1223	27.36	0.398	19.7	77.5
	115.0	17.40	1536.6	1166	25.20	0.350	17.0	76.8
	115.0	17.87	1563.3	1104	22.92	0.301	14.4	76.1
	115.0	18.30	1584.7	1040	20.63	0.255	12.0	75.3
	115.0	18.68	1603.7	971	18.18	0.210	9.8	74.6
	115.0	19.04	1619.2	898	15.76	0.168	7.8	74.0
	115.0	19.34	1632.3	820	13.27	0.130	5.9	73.4
	115.0	19.62	1643.3	737	10.60	0.093	4.2	72.8
	115.0	19.87	1650.7	649	8.02	0.062	2.8	72.3
	115.0	20.05	1656.1	557	6.20	0.041	1.9	71.8
	115.0	20.19	1660.4	462	4.68	0.026	1.2	71.5
	115.0	20.30	1664.2	359	2.32	0.010	0.4	71.3
	115.0	20.36	1666.6	250	0.91	0.003	0.1	71.2
	115.0	20.38	1663.7	135	-0.77	-0.001	0.0	71.0

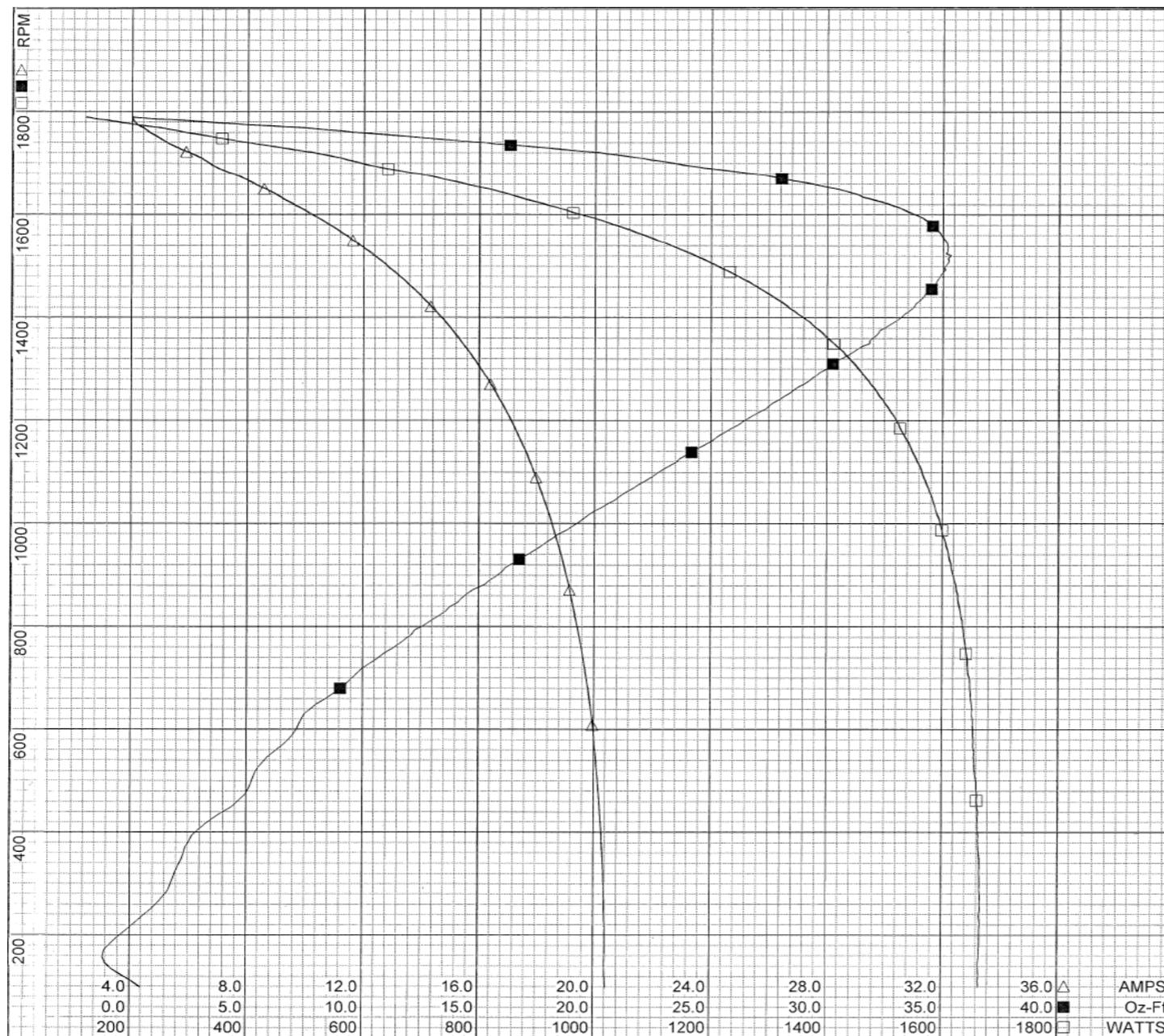
DRAWING NO.      PAGE 3 of 4      REV.  
**6K517BE**      -

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

# Performance Data



**6K517BE**      REV.  
-



**Curve Descriptions:**  
 Motor(1) Test 20 Run 115V 60 Hz 4P  
 Attempt #2  
 □ SPEED vs WATTS  
 ■ SPEED vs TORQUE  
 △ SPEED vs ILine

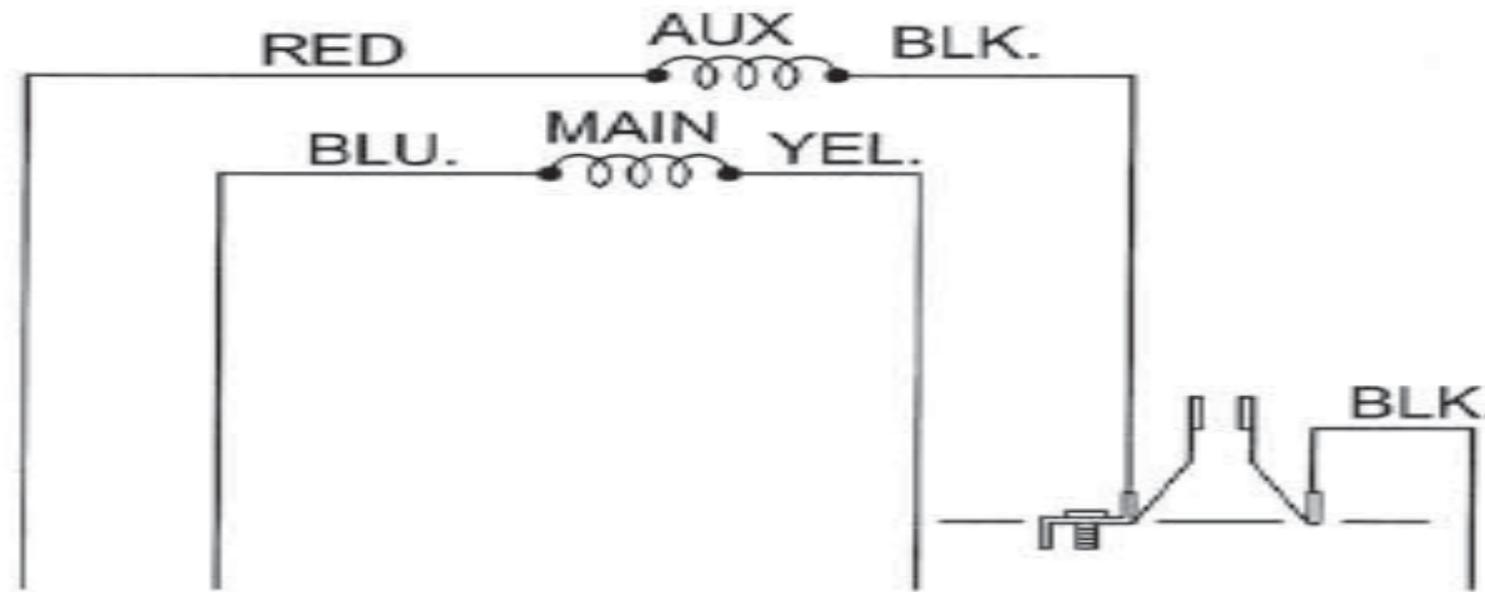
**Motor Ratings:**  
 (1) S055PYV8338 ID: 1

4.0      8.0      12.0      16.0      20.0      24.0      28.0      32.0      36.0 △      AMPS  
 0.0      5.0      10.0      15.0      20.0      25.0      30.0      35.0      40.0 ■      Oz-Ft  
 200      400      600      800      1000      1200      1400      1600      1800 □      WATTS

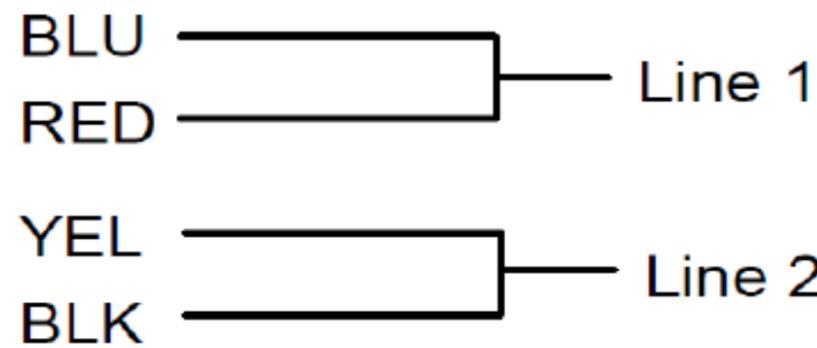
DRAWING NO.      PAGE 4 of 4      REV.  
 6K517BE      -

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

6K517BE	REV. -
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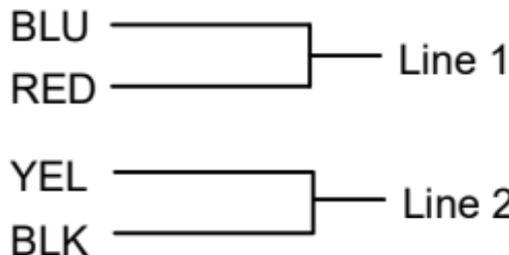


## CONNECTIONS



TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

DRAWING NO.	PAGE 1 of 1	REV.
6K517BE		-

**Dayton**<sup>®</sup>Part  
No**6K517BE****SPLIT PHASE  
MOTOR****HP:** 1/4**PH:** 1**VOLTS:** 115**HZ:** 60**AMPS:** 4.9**FR:** 48Z**RPM:** 1725**INS CL:** B**DUTY:** CONT**AMB:** 40<sup>°</sup>C**SF:** 1.0**SFA:****KVA CODE :** T**ENCL:** TEFC**MTR REF:** S55RMD-8370**THERMALLY PROTECTED:** NONEPROT. CODE   MFG. NO.  Disconnect Power Before Making  
Any Electrical Connections or Changes**CONNECTIONS**

258501



E47479

TO REVERSE ROTATION  
INTERCHANGE RED & BLK LEADS

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

Made in Mexico