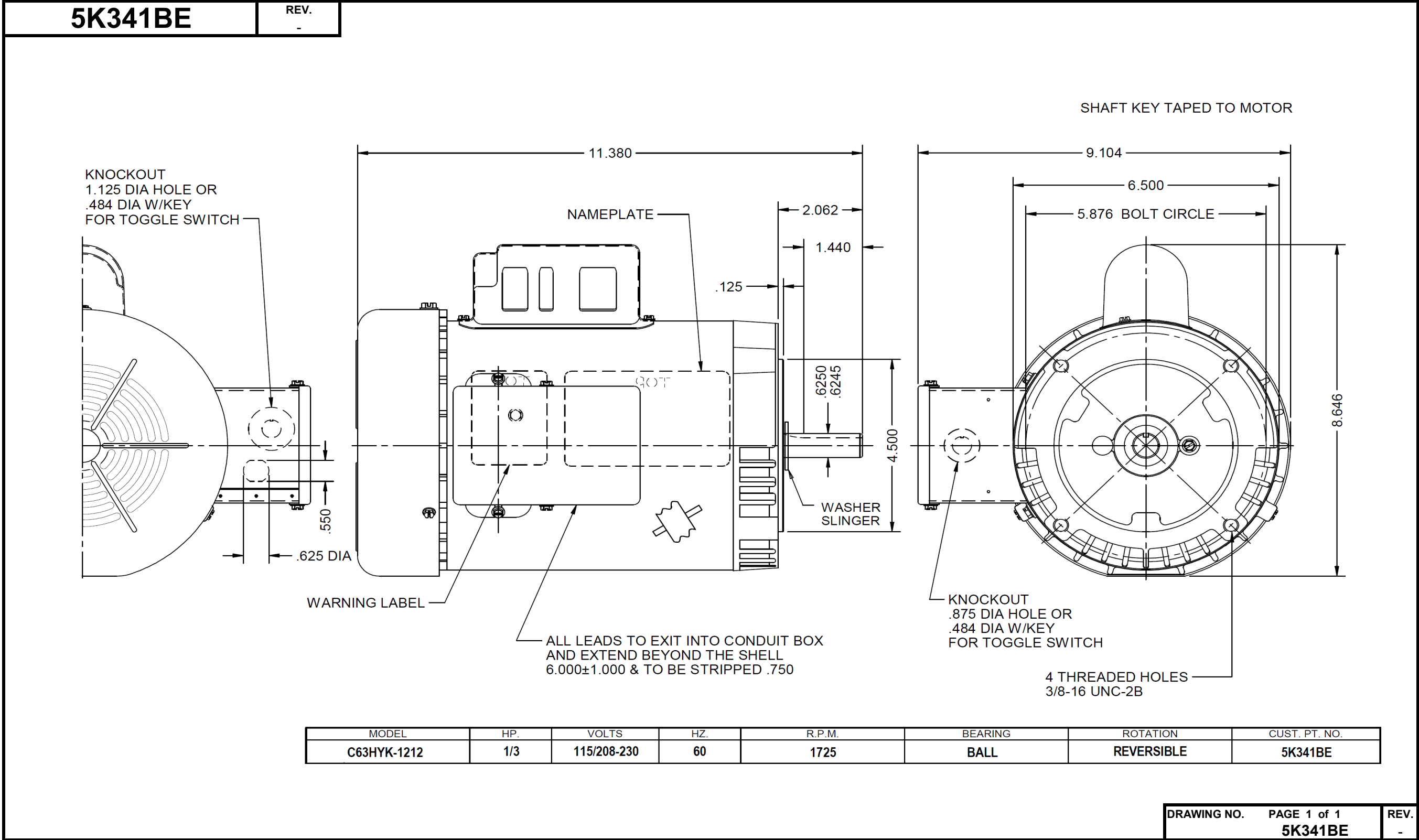


Dimensional Drawing



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

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5K341BE

REV.

-

SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE

HP:	1/3						
Poles:	4						
Ambient (°C):	40						
Altitude (FASL):	NA						
No. of Speeds:	1						
Volts:	115/208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1.15						
Efficiency:	@ Rated Load	55.40	58.70	53.80			
Power Factor:	@ Rated Load	52.40	60.70	53.60			
Amps:	@ No Load	7.36	3.58	2.86			
	@ Rated Load	7.43	3.35	3.75			
	@ Service Factor	7.64	3.50	3.86			
	@ Locked Rotor	47.27	20.71	23.25			
RPM:	@ Rated Load	1763	1754	1762			
Torques:	Breakdown	64.6	50.5	62.6			
	Locked Rotor	114.73	73.67	92.24			
	Pull-Up	114.73	73.67	90.91			
	Rated Load	15.87	15.95	15.88			
	Service Factor	18.30	18.41	18.32			
Watts:	Rated Load	448	423	462			
KVA Code:							
Temperature Rise:	@ Rated Load	72.50	63.30	72.30			
	@ Service Factor	80.80	75.80	80.30			
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)	CU					
	Run (Main)	AL					
Capacitor(s):	Start (MFD / Volts)	519 mfd 125 v					
	No. of Start Capacitors						
	Run (MFD / Volts)						
	No. of Run Capacitors						

LOW SPEED PERFORMANCE DATA:

HP:							
Poles:							
Volts:							
HZ:							
Efficiency:	@ Rated Load						
Power Factor:	@ Rated Load						
Amps:	@ No Load						
	@ Rated Load						
	@ Service Factor						
	@ Locked Rotor						
Torques:	BreakDown						
	Locked Rotor						
	Pull-Up						
	Rated Load						
	Service Factor						
Watts:	@ Rated Load						
Temperature Rise:	@ Rated Load						
	@ Service Factor						

DRAWING NO. PAGE 1 of 1
5K341BE

REV.

-

Performance Data



5K341BE REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063CXHYV118901
 Motor ID: 1
 Poles: 4
 Volts: 115/208-130
 Frequency: 60
 HP: .5
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 10 Start Cap: 0µfd
 Poles: 4
 Volts: 115 Tested: 8/20/2012 8:22:59 AM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation:
 Special Cond: 2 Line Test Gear Ratio: 1:1
 Speed Conn: Bearing Friction: -0.60 Oz-Ft
 TestBoard: Amps Performance Fixture #1 Windage Torque: -2.93 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	0.0	-0.5	41.70	4745	10	99.18	0.012	0.2	99.0
	115.0	0.0	-0.5	41.70	4745	10	99.18	0.012	0.2	99.0
	115.0	0.0	-0.6	41.78	4758	44	99.75	0.052	0.8	99.0
	115.0	0.1	-0.6	41.70	4752	189	103.66	0.233	3.7	99.1
	115.0	0.1	-0.6	41.55	4739	322	106.44	0.408	6.4	99.2
	115.0	0.1	-0.6	41.41	4728	446	112.74	0.599	9.4	99.3
	115.0	0.0	-0.5	41.22	4707	561	118.74	0.793	12.6	99.3
	115.0	0.0	-0.5	41.29	4715	668	125.02	0.994	15.7	99.3
	115.0	0.1	-0.5	41.52	4747	767	131.19	1.198	18.8	99.4
	115.0	0.0	-0.5	41.58	4759	859	136.72	1.399	21.9	99.5
	115.0	0.1	-0.5	41.65	4773	944	142.53	1.602	25.0	99.6
	115.0	0.1	-0.6	41.73	4786	1024	147.14	1.793	28.0	99.7
	115.0	0.1	-0.5	41.49	4763	1096	149.23	1.948	30.5	99.8
	115.0	0.0	-0.5	41.38	4754	1164	150.99	2.091	32.8	99.9
	115.0	0.0	-0.5	41.57	4779	1226	153.58	2.242	35.0	100.0
	115.0	0.0	-0.5	41.63	4789	1284	154.39	2.360	36.8	100.0
	115.0	2.1	1.4	60.55	4871	1324	149.95	2.364	36.2	70.0
	115.0	1.6	1.1	41.20	4252	1377	104.20	1.709	30.0	89.7
	115.0	0.0	-0.6	41.62	4770	1431	148.20	2.524	39.5	99.7
	115.0	1.1	0.4	41.45	4606	1469	126.62	2.214	35.9	96.6
	115.0	2.2	2.3	41.02	4147	1502	72.08	1.289	23.2	87.9
	115.0	0.6	0.1	19.11	1682	1531	40.74	0.743	32.9	76.5
	115.0	0.0	-0.6	15.07	1427	1568	53.06	0.990	51.8	82.3
	115.0	0.0	-0.4	14.74	1394	1599	50.59	0.963	51.5	82.2
	115.0	0.0	-0.5	13.53	1276	1627	48.43	0.938	54.9	82.0
	115.0	0.0	-0.5	12.32	1149	1652	44.36	0.872	56.7	81.1
	115.0	0.2	-0.5	11.13	1021	1676	40.93	0.817	59.7	79.8
	115.0	0.1	-0.5	9.99	890	1698	35.53	0.718	60.2	77.5
	115.0	0.0	-0.5	8.90	755	1719	30.26	0.619	61.2	73.7
	115.0	0.2	-0.6	7.93	624	1738	24.37	0.504	60.3	68.4
	115.0	0.1	-0.5	7.04	482	1758	17.12	0.358	55.4	59.6
	115.0	0.1	-0.5	6.38	342	1776	9.50	0.201	43.8	46.7
	115.0	0.0	-0.5	6.04	203	1795	1.38	0.029	10.8	29.2
	115.0	0.0	-0.5	6.01	176	1799	0.00	0.000	0.0	25.5

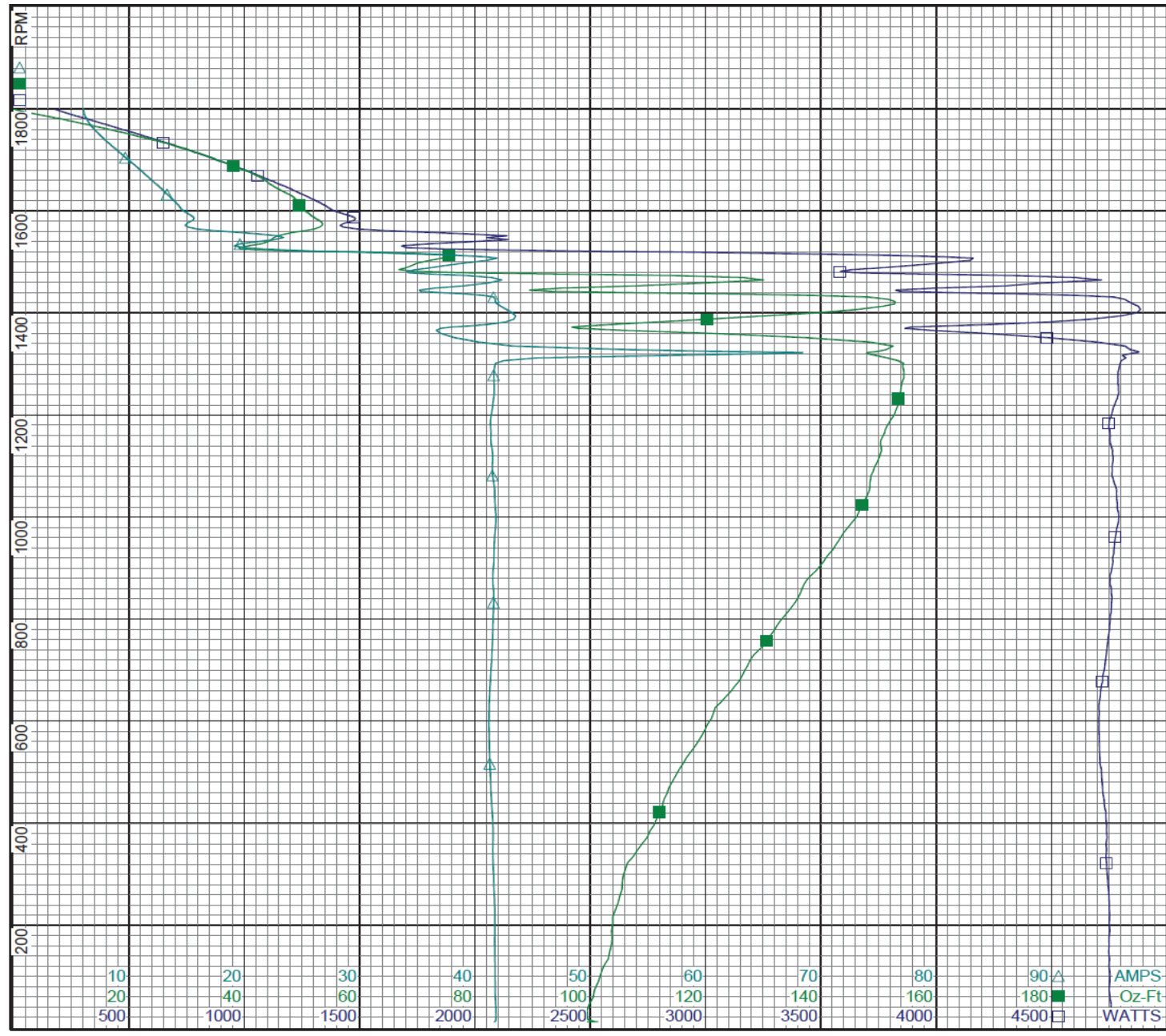
DRAWING NO. PAGE 1 of 8 REV.
5K341BE -

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

Performance Data



5K341BE 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) C063CXHYV118901 ID: 1

DRAWING NO.	PAGE 2 of 8	REV.
5K341BE		-

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

Performance Data



5K341BE

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C063CXHYV118901
 Motor ID: 1
 Poles: 4
 Volts: 115/208-130
 Frequency: 60
 HP: .5
 Speed: 1725
 Phase: 1
 Protector: CEJ67CX

Test Conditions

Test Type: Run
 Test Number: 4
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 8/20/2012 8:48:00 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.68 Oz-Ft
 Windage Torque: -3.06 Oz-Ft

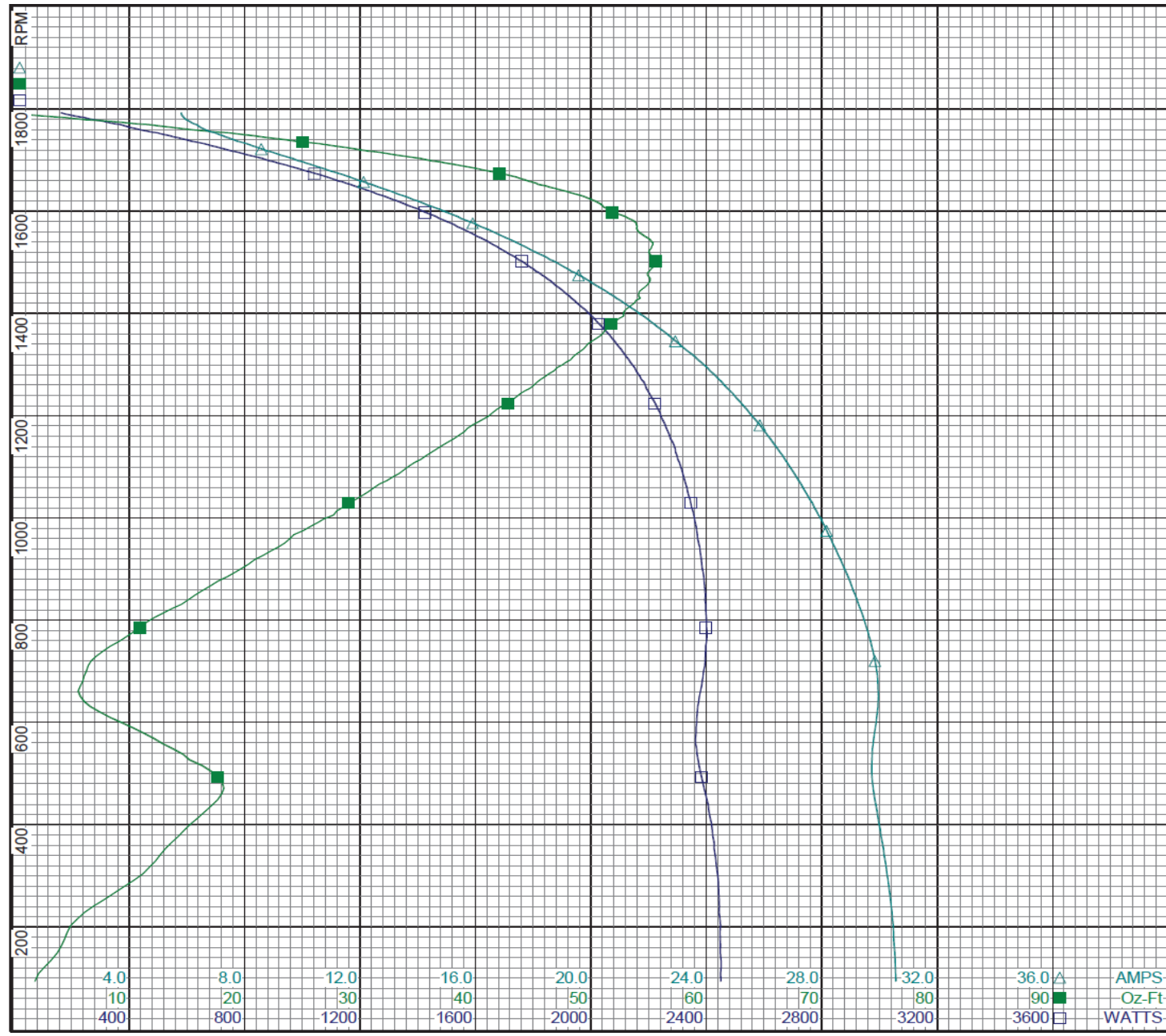
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	5.79	163	1792	0.00	0.000	0.0	24.5
	115.0	6.13	325	1774	9.33	0.197	45.2	46.1
	115.0	6.95	494	1753	18.45	0.385	58.2	61.8
0.5 HP	115.0	7.71	610	1737	24.17	0.500	61.2	68.8
24.3 OZ-FT	115.0	7.72	612	1737	24.30	0.502	61.2	68.9
	115.0	7.95	643	1734	25.69	0.530	61.5	70.3
28 OZ-FT	115.0	8.32	693	1727	28.00	0.576	61.9	72.4
1725 RPM	115.0	8.41	705	1725	28.55	0.586	62.0	72.9
	115.0	9.03	784	1714	32.01	0.653	62.1	75.6
	115.0	10.24	929	1692	37.96	0.765	61.4	78.9
	115.0	11.50	1071	1669	43.04	0.855	59.5	81.0
	115.0	12.79	1208	1644	46.96	0.919	56.7	82.1
	115.0	14.09	1338	1617	50.52	0.973	54.2	82.6
	115.0	15.37	1462	1589	52.94	1.002	51.1	82.7
	115.0	16.67	1582	1558	54.20	1.005	47.4	82.5
	115.0	17.94	1695	1523	55.04	0.998	43.9	82.2
BDT OZ-FT	115.0	18.81	1768	1499	55.68	0.993	41.9	81.7
	115.0	19.19	1799	1487	55.20	0.977	40.5	81.5
	115.0	20.39	1896	1447	54.42	0.937	36.9	80.8
	115.0	21.59	1986	1403	52.84	0.883	33.2	80.0
	115.0	22.71	2067	1356	50.79	0.820	29.6	79.1
	115.0	23.81	2136	1304	47.81	0.742	25.9	78.0
	115.0	24.81	2197	1248	44.27	0.658	22.3	77.0
	115.0	25.76	2252	1187	40.20	0.568	18.8	76.0
	115.0	26.64	2298	1121	35.70	0.477	15.5	75.0
	115.0	27.43	2335	1051	30.69	0.384	12.3	74.0
	115.0	28.17	2366	975	25.06	0.291	9.2	73.0
	115.0	28.84	2389	892	19.09	0.203	6.3	72.0
	115.0	29.44	2399	805	12.15	0.116	3.6	70.9
	115.0	29.87	2394	710	6.42	0.054	1.7	69.7
	115.0	29.90	2366	609	8.35	0.061	1.9	68.8
	115.0	29.73	2378	504	17.06	0.102	3.2	69.6
	115.0	30.02	2420	389	14.77	0.068	2.1	70.1
	115.0	30.35	2442	266	8.68	0.027	0.8	70.0
	115.0	30.53	2450	135	3.24	0.005	0.2	69.8

DRAWING NO. PAGE 3 of 8 REV.
 5K341BE -

Performance Data



5K341BE REV. -



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) C063CXHYV118901 ID: 1

DRAWING NO. PAGE 4 of 8 REV.
5K341BE -

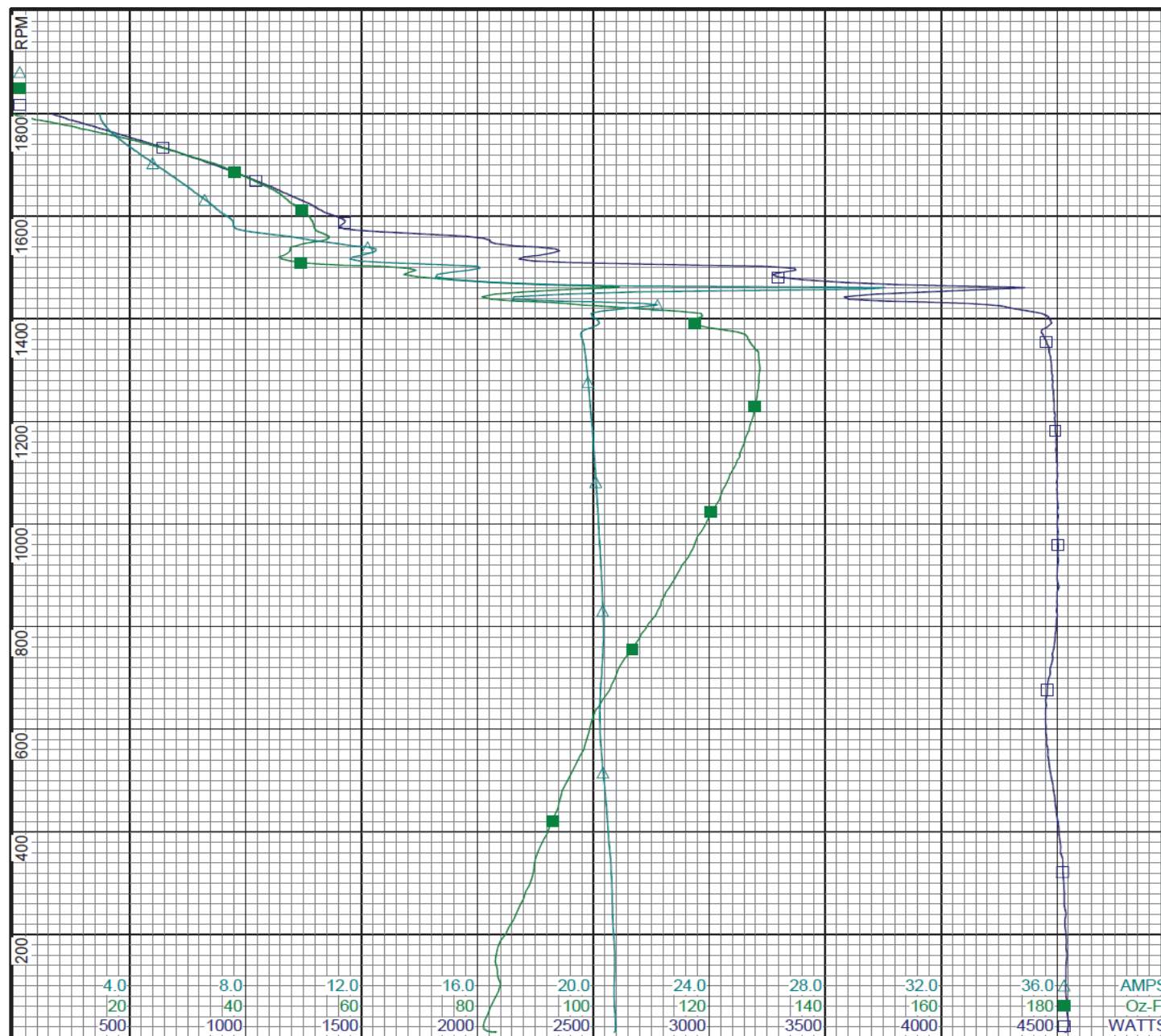
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

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Performance Data



5K341BE REV. -



Curve Descriptions:
 Motor(1) Test 15 Start 230V 60 Hz 4P
 2 Line Test Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

Motor Ratings:
 (1) C063CXHYV118901 ID: 1

DRAWING NO. PAGE 6 of 8 REV.
 5K341BE -

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

Performance Data



5K341BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063CXHYV118901
Motor ID: 1
Poles: 4
Volts: 115/208-130
Frequency: 60
HP: .5
Speed: 1725
Phase: 1
Protector: CEJ67CX

Test Conditions

Test Type: Run
Test Number: 12
Poles: 4
Volts: 230
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amps Performance Fixture #1
Run Cap: 0
Start Cap: 0µfd
Tested: 8/17/2012 2:13:24 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.69 Oz-Ft
Windage Torque: -2.83 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	2.816	159	1792	0.00	0.000	0.0	24.6
	230.0	2.959	311	1775	8.24	0.174	41.8	45.6
	230.0	3.355	474	1754	16.90	0.353	55.6	61.4
	230.0	3.857	624	1735	24.15	0.499	59.6	70.4
0.5 HP	230.0	3.861	626	1735	24.21	0.500	59.6	70.4
24.3 OZ-FT	230.0	3.868	628	1735	24.30	0.502	59.7	70.5
1725 RPM	230.0	4.126	698	1725	27.35	0.562	60.1	73.5
28 OZ-FT	230.0	4.186	711	1723	28.00	0.574	60.2	73.9
	230.0	4.412	767	1714	30.33	0.619	60.2	75.6
	230.0	5.011	910	1693	36.24	0.730	59.9	78.9
	230.0	5.641	1052	1670	40.78	0.811	57.5	81.1
	230.0	6.281	1185	1645	45.25	0.886	55.8	82.0
	230.0	6.922	1315	1619	47.89	0.923	52.4	82.6
	230.0	7.584	1442	1591	51.04	0.966	50.0	82.7
	230.0	8.228	1560	1560	52.44	0.974	46.6	82.4
	230.0	8.863	1674	1526	52.92	0.961	42.8	82.1
BDT OZ-FT	230.0	9.121	1717	1512	53.79	0.968	42.0	81.9
	230.0	9.492	1779	1489	53.14	0.942	39.5	81.5
	230.0	10.107	1877	1450	52.49	0.906	36.0	80.7
	230.0	10.685	1959	1407	51.19	0.858	32.7	79.7
	230.0	11.252	2043	1360	49.23	0.797	29.1	79.0
	230.0	11.809	2124	1308	46.42	0.723	25.4	78.2
	230.0	12.323	2184	1253	43.04	0.642	21.9	77.1
	230.0	12.798	2241	1193	39.24	0.557	18.6	76.1
	230.0	13.240	2284	1127	35.04	0.470	15.4	75.0
	230.0	13.646	2325	1058	30.31	0.382	12.2	74.1
	230.0	14.017	2354	982	25.11	0.294	9.3	73.0
	230.0	14.358	2376	901	19.76	0.212	6.7	72.0
	230.0	14.661	2389	813	14.41	0.140	4.4	70.8
	230.0	14.895	2382	719	8.32	0.071	2.2	69.5
	230.0	14.924	2354	620	9.21	0.068	2.2	68.6
	230.0	14.828	2361	514	17.89	0.110	3.5	69.2
	230.0	14.965	2403	401	16.61	0.079	2.5	69.8
	230.0	15.144	2429	278	9.99	0.033	1.0	69.7
	230.0	15.251	2441	148	4.50	0.008	0.2	69.6

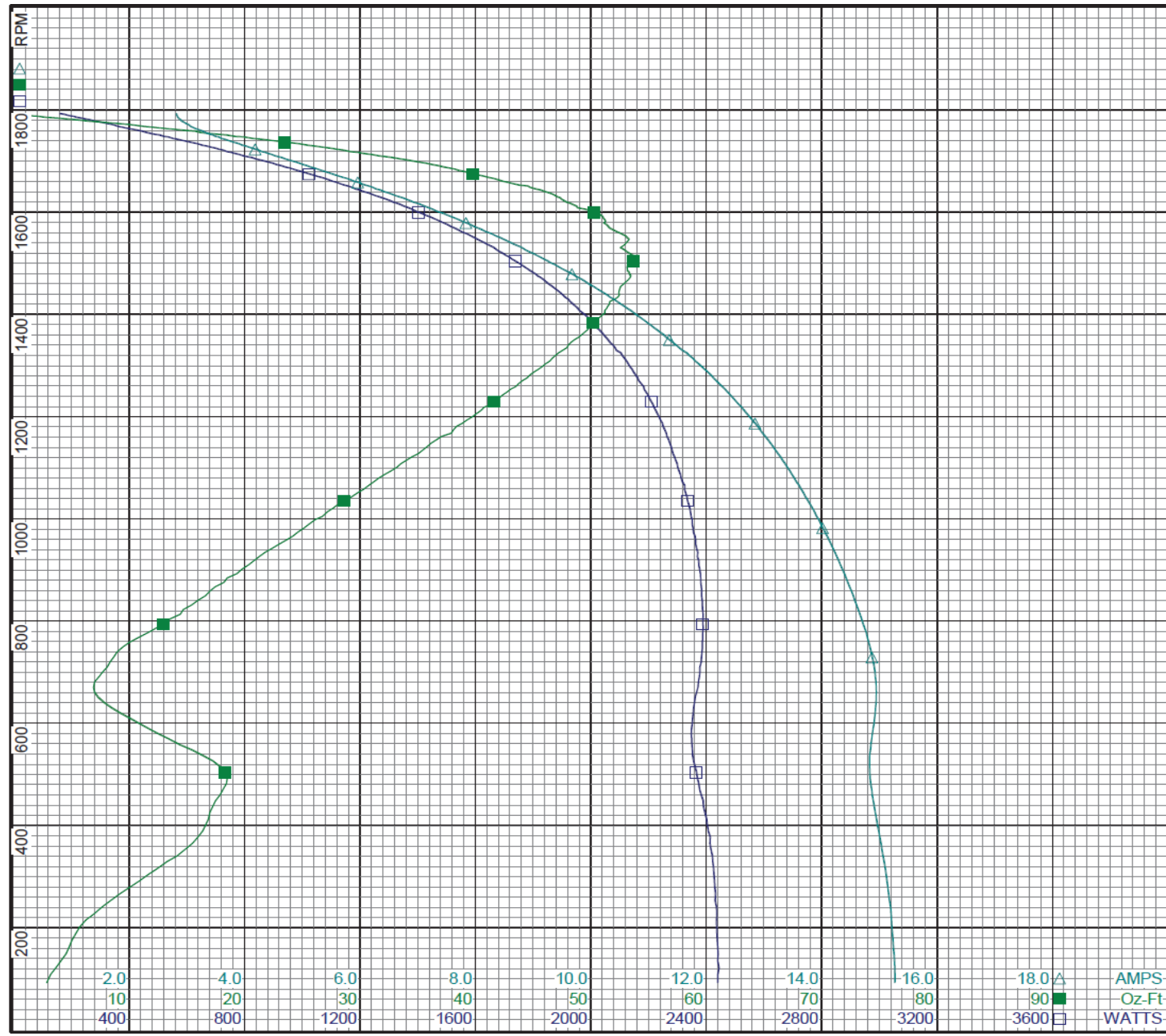
DRAWING NO.	PAGE 7 of 8	REV.
5K341BE		-

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

Performance Data



5K341BE REV. -



Curve Descriptions:
 Motor(1) Test 12 Run 230V 60 Hz 4P
 Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

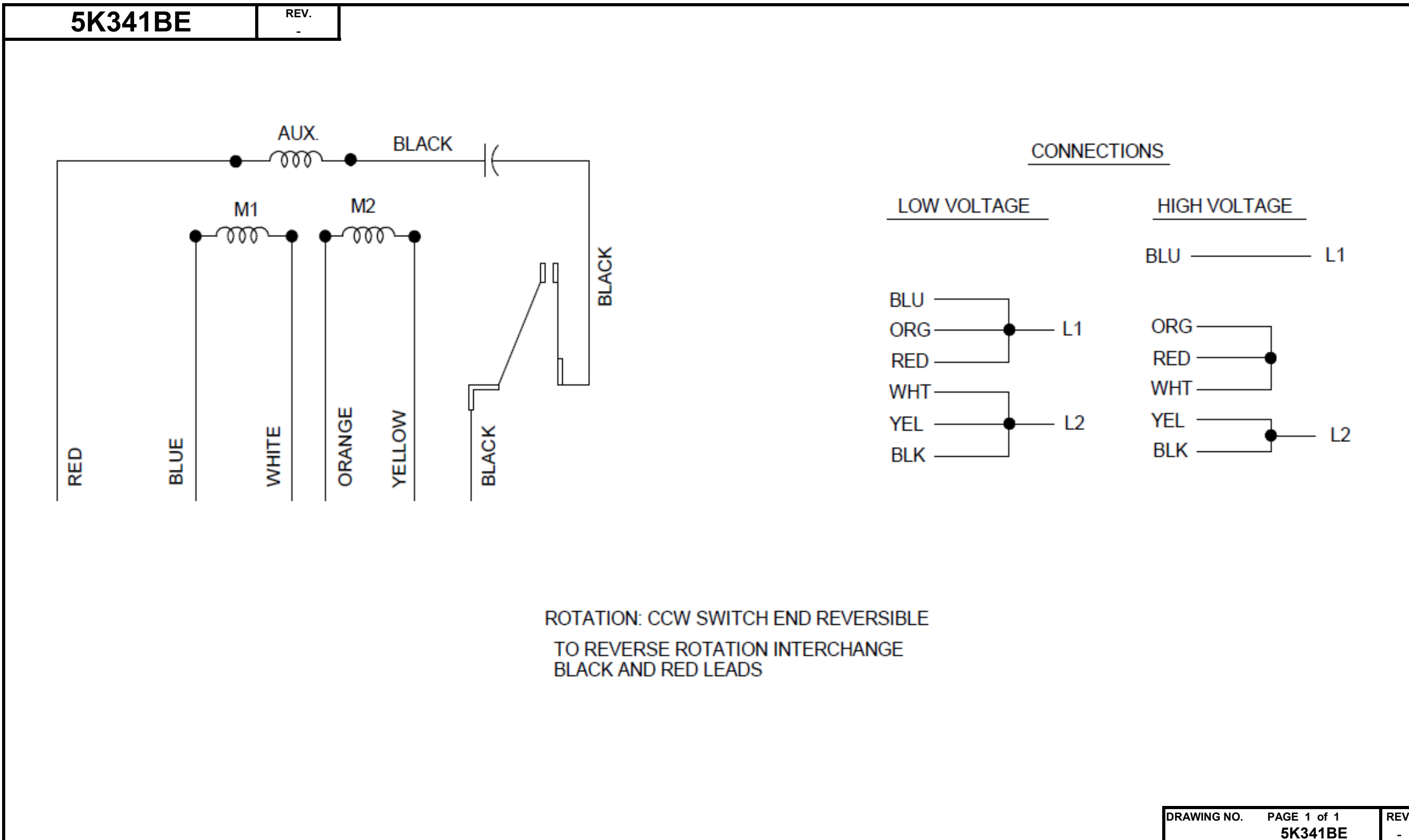
Motor Ratings:
 (1) C063CXHYV118901 ID: 1

DRAWING NO. PAGE 8 of 8 REV.
5K341BE -

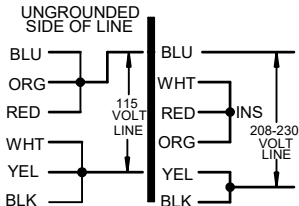
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Wiring Diagram



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

Dayton[®]Part No **5K341BE****INDUSTRIAL
MOTOR****HP:** 1/3**VOLTS:** 115/208-230**AMPS:** 7.7/3.9-3.9**RPM:** 1725**DUTY:** CONT**SF:** 1.15**KVA CODE:** L**MTR REF:** C63HYK-1212**THERMALLY PROTECTED:** NONEPROT. CODE: MFG. NO. **S.F. AT 208 VOLTS IS 1.0****PH:** 1**HZ:** 60**FR:** 56 C**INS CL:** B**AMB:** 40 °C**SFA:** 8.3/3.9-4.2**ENCL:** TEFC**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS****MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS**

258501



E47479

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

Made in Mexico