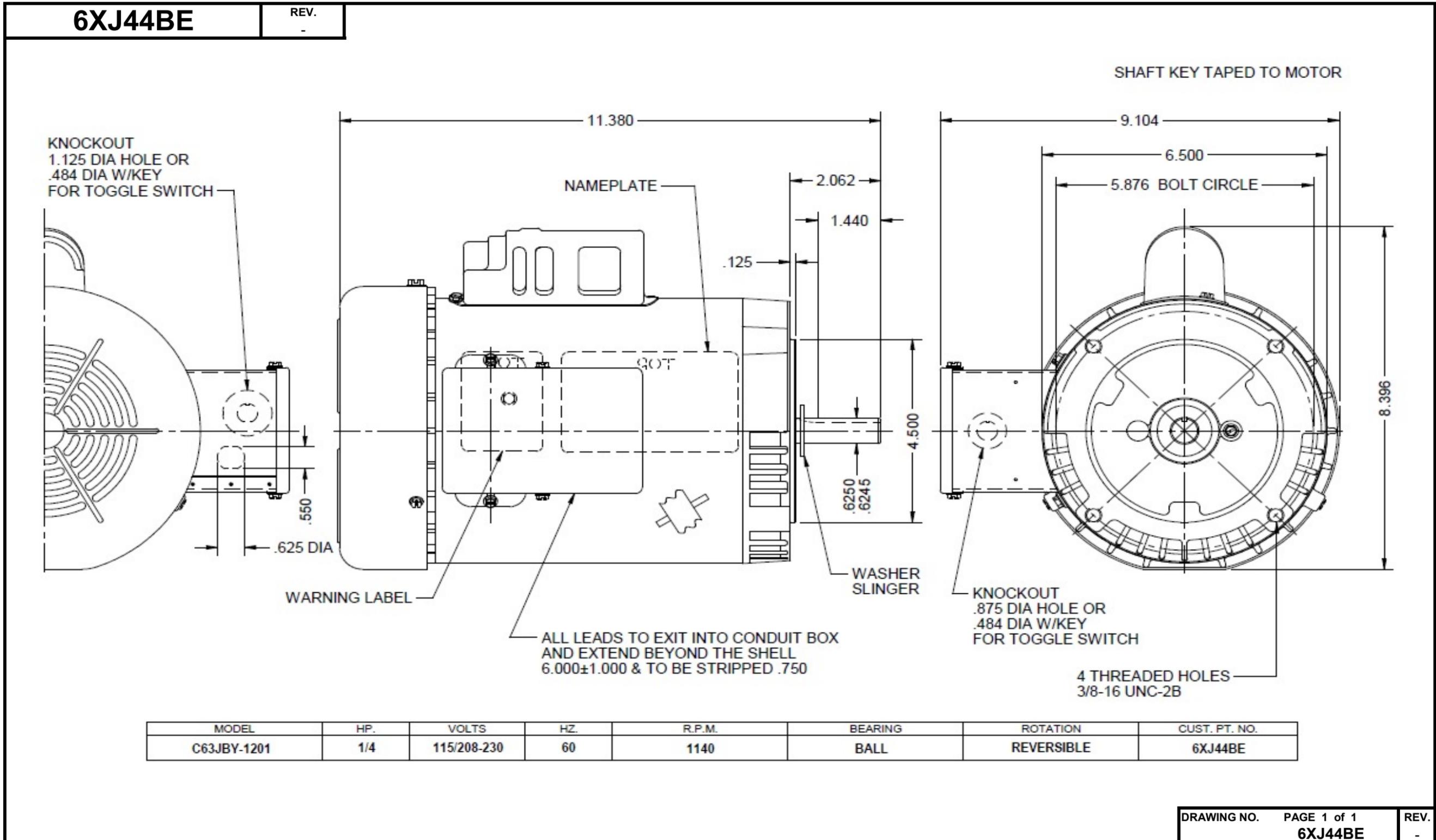


Dimensional Drawing



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

6XJ44BE

REV.
-

SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE

HP:	1/4						
Poles:	6						
Ambient (°C):	40						
Altitude (FASL):	-						
No. of Speeds:	1						
Volts:	115/208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1.00						
Efficiency:	@ Rated Load	56.40	58.00	56.00			
Power Factor:	@ Rated Load	51.70	58.00	51.90			
Amps:	@ No Load	5.20	2.22	2.57			
	@ Rated Load	5.57	2.67	2.79			
	@ Service Factor	5.57	2.67	2.79			
	@ Locked Rotor	24.95	11.08	12.49			
RPM:	@ Rated Load	1157	1146	1158			
Torques:	Breakdown	47.5	38.8	47.0			
	Locked Rotor	72.16	49.97	61.69			
	Pull-Up	71.73	49.45	62.05			
	Rated Load	18.15	18.33	18.14			
	Service Factor	18.15	18.33	18.14			
Watts:	Rated Load	331	322	333			
KVA Code:					N		
Temperature Rise:	@ Rated Load	80.90	42.50	49.60			
	@ Service Factor	-	-	-			
Thermal Protector:	Trip Temp (°C)	-	-	-			
Winding Material:	Start (Auxiliary)				Al		
	Run (Main)				Cu		
Capacitor(s):	Start (MFD / Volts)				356.5 uF / 110 V		
	No. of Start Capacitors				1		
	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
6XJ44BE

REV.
-

Performance Data



6XJ44BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063JBY1201
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/4
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 1
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: 2-line
 Speed Conn:
 TestBoard: Amps Performance Fixture #3
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 10/9/2012 4:32:21 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.63 Oz-Ft
 Windage Torque: -1.96 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	21.65	2439	7	73.54	0.006	0.2	98.0
	115.0	21.62	2437	21	74.87	0.019	0.6	98.0
	115.0	21.47	2418	108	76.77	0.099	3.0	97.9
PUT OZ-FT	115.0	21.44	2415	136	68.86	0.111	3.4	97.9
	115.0	21.63	2436	201	77.31	0.185	5.7	97.9
	115.0	21.50	2424	291	84.89	0.295	9.1	98.0
	115.0	21.51	2431	373	91.37	0.406	12.5	98.3
	115.0	21.46	2429	447	97.76	0.520	16.0	98.4
	115.0	21.28	2415	513	102.67	0.627	19.4	98.7
	115.0	21.11	2400	575	106.92	0.732	22.8	98.8
	115.0	20.98	2392	632	110.86	0.834	26.0	99.1
	115.0	20.86	2382	685	114.36	0.932	29.2	99.3
	115.0	20.73	2373	734	117.67	1.028	32.3	99.5
	115.0	20.59	2360	778	120.53	1.116	35.3	99.7
	115.0	20.50	2335	819	121.19	1.181	37.7	99.0
	115.0	12.06	1086	844	41.62	0.418	28.7	78.3
	115.0	11.85	1038	878	46.18	0.483	34.7	76.2
	115.0	11.18	985	915	47.69	0.519	39.3	76.6
	115.0	10.51	933	949	49.18	0.556	44.4	77.2
	115.0	9.86	879	978	49.28	0.574	48.7	77.5
	115.0	9.23	825	1004	48.73	0.583	52.7	77.7
	115.0	8.60	768	1028	47.44	0.581	56.4	77.6
	115.0	8.00	709	1049	45.35	0.566	59.6	77.1
	115.0	7.40	650	1069	42.84	0.545	62.6	76.4
	115.0	6.84	592	1086	40.15	0.519	65.4	75.2
	115.0	6.30	532	1103	36.80	0.483	67.7	73.5
	115.0	5.77	472	1117	32.93	0.438	69.2	71.1
	115.0	5.30	413	1132	28.81	0.388	70.1	67.8
	115.0	4.86	354	1145	24.17	0.330	69.5	63.4
	115.0	4.46	294	1158	19.19	0.265	67.1	57.3
	115.0	4.12	235	1171	13.91	0.194	61.7	49.5
	115.0	3.87	175	1183	8.01	0.113	48.2	39.3
	115.0	3.72	113	1196	1.69	0.024	15.9	26.5
	115.0	3.70	95	1199	0.00	0.000	0.0	22.3

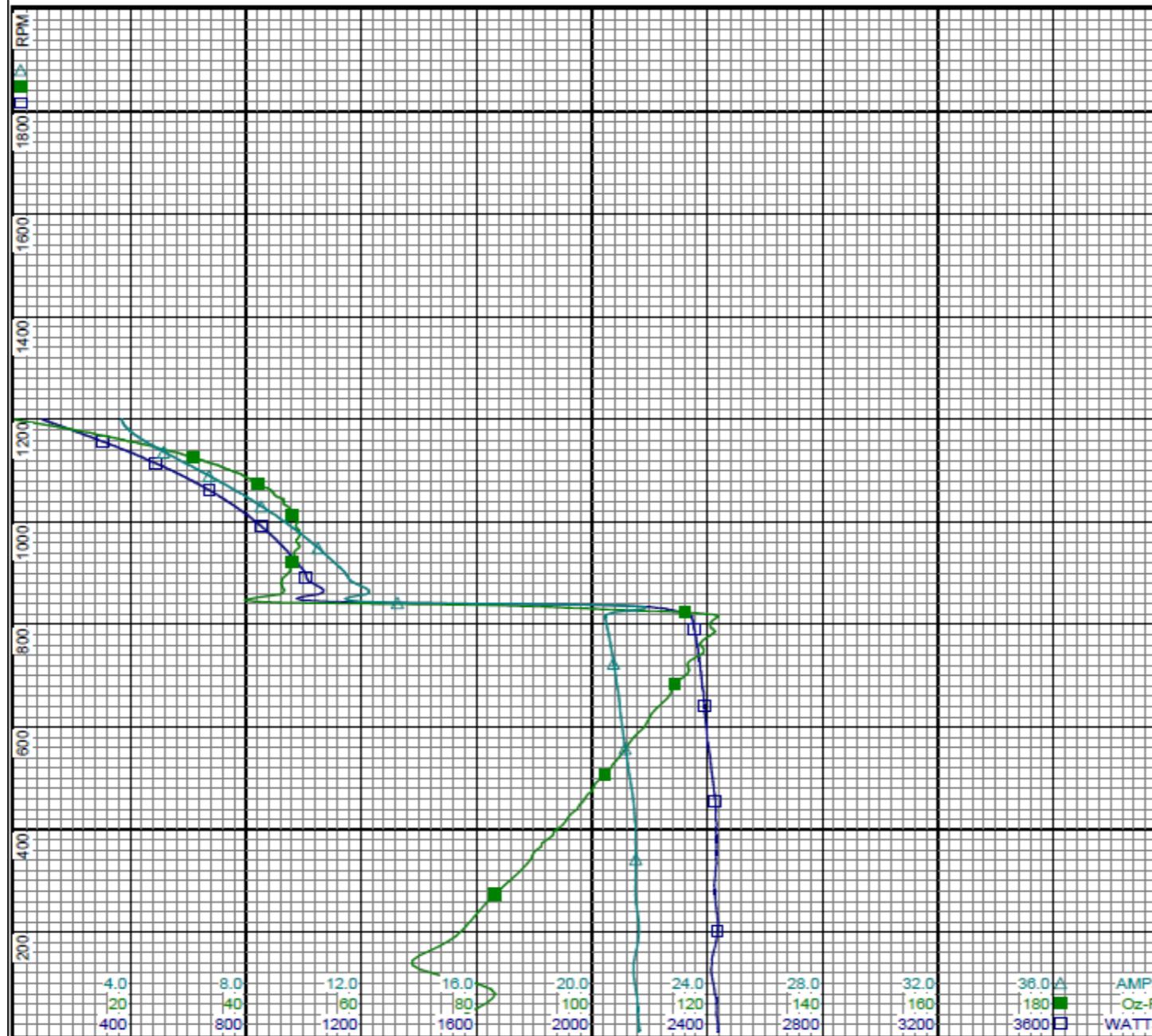
DRAWING NO.	PAGE 1 of 8	REV.
6XJ44BE		-

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

Performance Data



6XJ44BE REV.
-



Curve Descriptions:
 Motor(1) Test 1 Start 115V 60 Hz 6P
 2-line Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

Motor Ratings:
 (1) C063JBY1201 ID: 1

DRAWING NO. PAGE 2 of 8 REV.
6XJ44BE -

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

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Performance Data



6XJ44BE

REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063JBY1201
 Motor ID: 1
 Poles: 6
 Volts: 115/208-230
 Frequency: 60
 HP: 1/4
 Speed: 1140
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run
 Test Number: 3
 Poles: 6
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: 3 line
 Speed Conn:
 TestBoard: Amps Performance Fixture #3
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 10/9/2012 4:33:55 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.76 Oz-Ft
 Windage Torque: -2.42 Oz-Ft

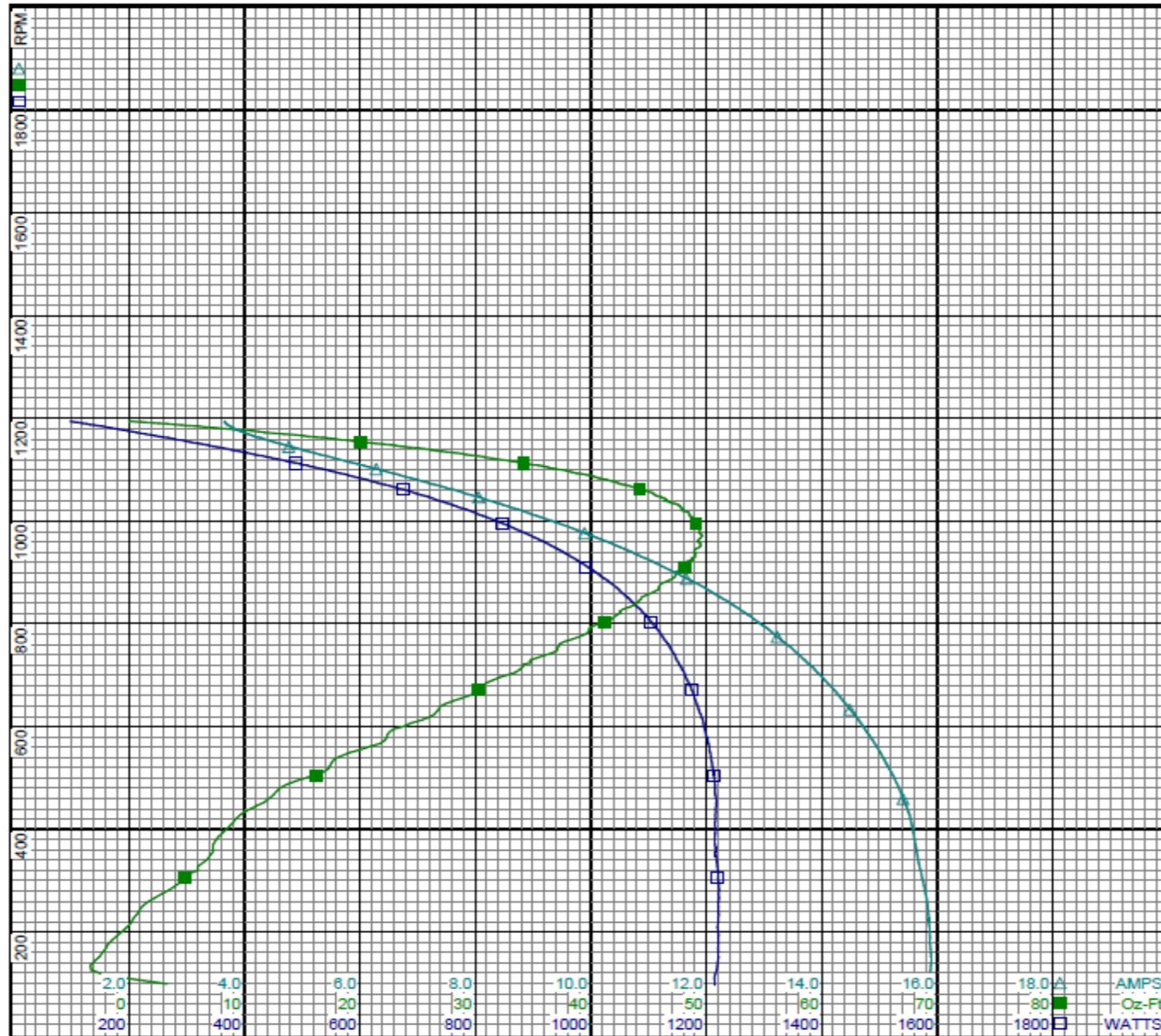
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	3.653	98.3	1194	0.00	0.000	0.0	23.4
	115.0	3.803	168.9	1181	7.52	0.106	46.7	38.6
	115.0	4.145	246.0	1166	15.15	0.210	63.8	51.6
0.25 HP	115.0	4.358	281.7	1159	18.12	0.250	66.2	56.2
18.3 OZ-FT	115.0	4.371	283.9	1158	18.30	0.252	66.3	56.5
	115.0	4.528	308.0	1153	20.34	0.279	67.6	59.2
	115.0	4.952	370.9	1140	25.63	0.348	70.0	65.1
1140 RPM	115.0	4.958	371.8	1140	25.70	0.349	70.0	65.2
	115.0	5.467	437.1	1125	30.72	0.411	70.2	69.5
	115.0	6.009	502.8	1109	35.05	0.463	68.6	72.8
	115.0	6.576	566.4	1093	38.81	0.505	66.5	74.9
	115.0	7.187	631.2	1074	42.34	0.541	64.0	76.4
	115.0	7.801	694.5	1054	45.34	0.569	61.1	77.4
	115.0	8.429	754.5	1034	47.29	0.582	57.5	77.8
	115.0	9.061	812.7	1010	48.55	0.584	53.6	78.0
	115.0	9.706	869.5	984	49.49	0.580	49.8	77.9
BDT OZ-FT	115.0	10.021	896.2	971	49.61	0.574	47.8	77.8
	115.0	10.330	922.3	957	49.44	0.563	45.6	77.6
	115.0	10.945	971.1	927	48.70	0.537	41.3	77.2
	115.0	11.543	1015.1	895	47.36	0.504	37.1	76.5
	115.0	12.132	1055.4	859	45.16	0.462	32.6	75.6
	115.0	12.674	1091.1	821	42.56	0.416	28.4	74.9
	115.0	13.184	1121.4	779	39.47	0.366	24.4	74.0
	115.0	13.655	1146.8	734	35.35	0.309	20.1	73.0
	115.0	14.094	1169.6	685	30.96	0.252	16.1	72.2
	115.0	14.488	1186.8	633	26.82	0.202	12.7	71.2
	115.0	14.849	1201.3	577	22.31	0.153	9.5	70.4
	115.0	15.169	1211.1	517	17.26	0.106	6.5	69.4
	115.0	15.435	1216.5	452	11.69	0.063	3.9	68.5
	115.0	15.599	1214.9	385	7.74	0.035	2.2	67.7
	115.0	15.722	1220.5	313	5.22	0.019	1.2	67.5
	115.0	15.845	1221.2	234	0.69	0.002	0.1	67.0
	115.0	15.888	1221.1	151	-2.57	-0.005	0.0	66.8

DRAWING NO. PAGE 3 of 8 REV.
6XJ44BE -

Performance Data



6XJ44BE REV.
-



Curve Descriptions:
 Motor(1) Test 3 Run 115V 60 Hz 6P
 3 line Attempt #1

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

Motor Ratings:
 (1) C063JBY1201 ID: 1

DRAWING NO.	PAGE 4 of 8	REV.
6XJ44BE		-

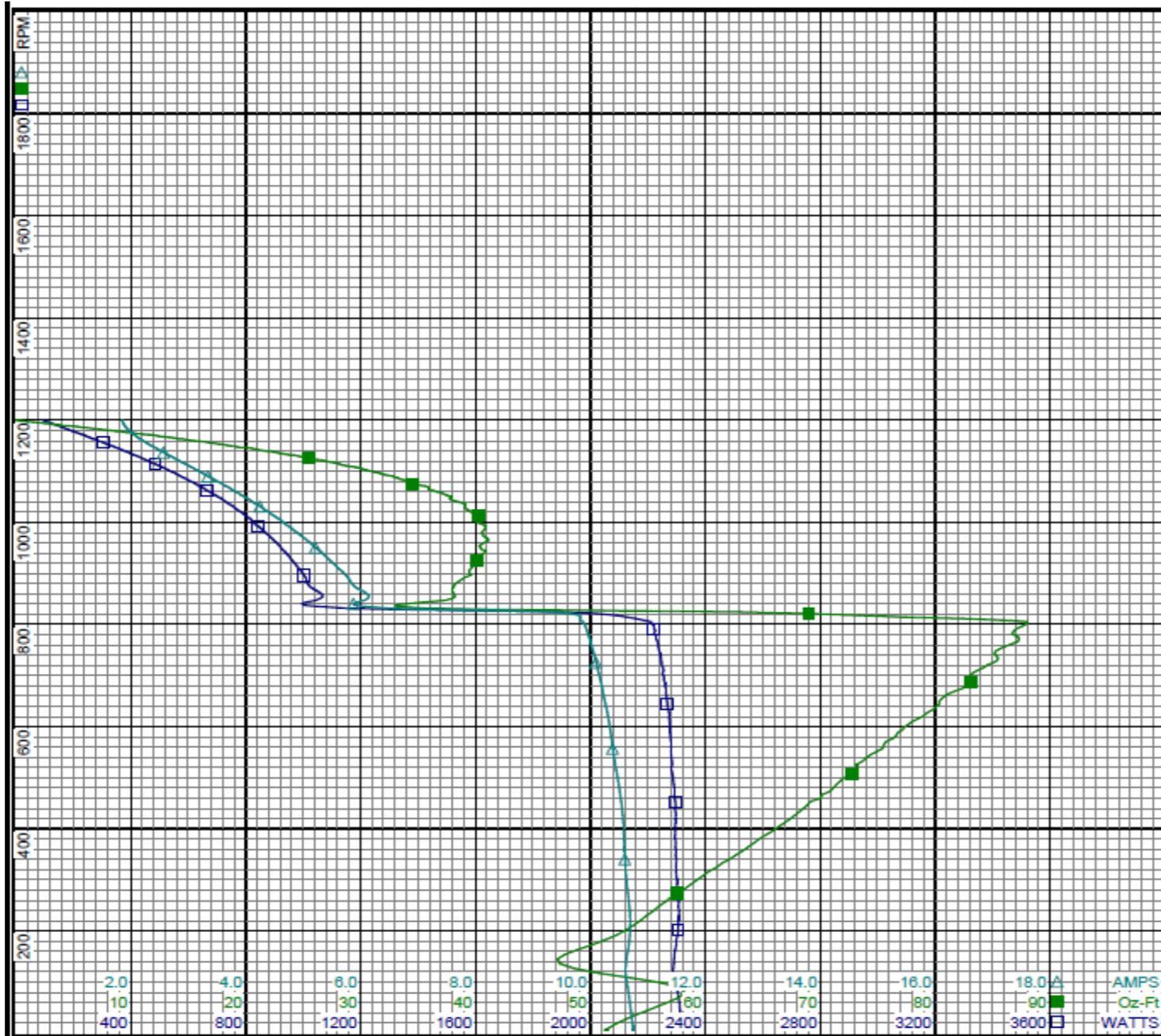
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

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Performance Data



6XJ44BE REV.
-



Curve Descriptions:
 Motor(1) Test 6 Start 230V 60 Hz 6P
 2 line Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

Motor Ratings:
 (1) C063JBY1201 ID: 1

DRAWING NO. PAGE 6 of 8 REV.
6XJ44BE -

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

Performance Data



6XJ44BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063JBY1201
Motor ID: 1
Poles: 6
Volts: 115/208-230
Frequency: 60
HP: 1/4
Speed: 1140
Phase: 1
Protector: NONE

Test Conditions

Test Type: Run
Test Number: 8
Poles: 6
Volts: 230
Hz: 60
Rotation:
Special Cond: 3 line
Speed Conn:
TestBoard: Amtps Performance Fixture #3
Run Cap: 0
Start Cap: 0µfd
Tested: 10/9/2012 2:39:04 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.47 Oz-Ft
Windage Torque: -1.63 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	1.814	88.0	1195	0.00	0.000	0.0	21.1
	230.0	1.880	158.5	1183	5.74	0.081	38.1	36.7
	230.0	2.033	230.1	1169	11.64	0.162	52.5	49.2
	230.0	2.239	300.1	1154	16.84	0.231	57.5	58.3
0.25 HP	230.0	2.307	320.8	1150	18.26	0.250	58.1	60.4
18.3 OZ-FT	230.0	2.310	321.4	1150	18.30	0.251	58.2	60.5
	230.0	2.445	361.0	1142	21.14	0.287	59.4	64.2
1140 RPM	230.0	2.474	369.0	1140	21.52	0.292	59.0	64.9
	230.0	2.695	426.1	1126	25.28	0.339	59.3	68.8
	230.0	2.961	490.4	1111	28.97	0.383	58.3	72.0
	230.0	3.247	555.6	1095	32.25	0.421	56.5	74.4
	230.0	3.548	619.2	1077	34.77	0.446	53.7	75.9
	230.0	3.853	681.7	1057	37.40	0.471	51.5	76.9
	230.0	4.171	743.8	1036	39.44	0.486	48.8	77.5
	230.0	4.491	803.2	1013	40.70	0.491	45.6	77.8
	230.0	4.811	856.7	988	41.24	0.485	42.2	77.4
BDT OZ-FT	230.0	4.907	874.4	980	41.61	0.485	41.4	77.5
	230.0	5.130	910.5	960	41.52	0.474	38.9	77.2
	230.0	5.439	960.5	931	40.84	0.453	35.2	76.8
	230.0	5.744	1004.6	898	39.88	0.426	31.7	76.0
	230.0	6.033	1045.9	863	38.07	0.391	27.9	75.4
	230.0	6.309	1082.2	825	36.12	0.355	24.4	74.6
	230.0	6.566	1112.0	784	33.00	0.308	20.7	73.6
	230.0	6.805	1138.3	739	30.25	0.266	17.4	72.7
	230.0	7.026	1161.4	692	27.25	0.224	14.4	71.9
	230.0	7.229	1180.2	639	23.57	0.179	11.3	71.0
	230.0	7.412	1194.2	584	19.38	0.135	8.4	70.1
	230.0	7.575	1204.5	525	14.78	0.092	5.7	69.1
	230.0	7.714	1211.2	461	10.47	0.057	3.5	68.3
	230.0	7.803	1209.5	392	7.64	0.036	2.2	67.4
	230.0	7.867	1213.7	320	5.78	0.022	1.4	67.1
	230.0	7.931	1215.9	243	1.49	0.004	0.3	66.7
	230.0	7.956	1215.6	160	-1.92	-0.004	0.0	66.4

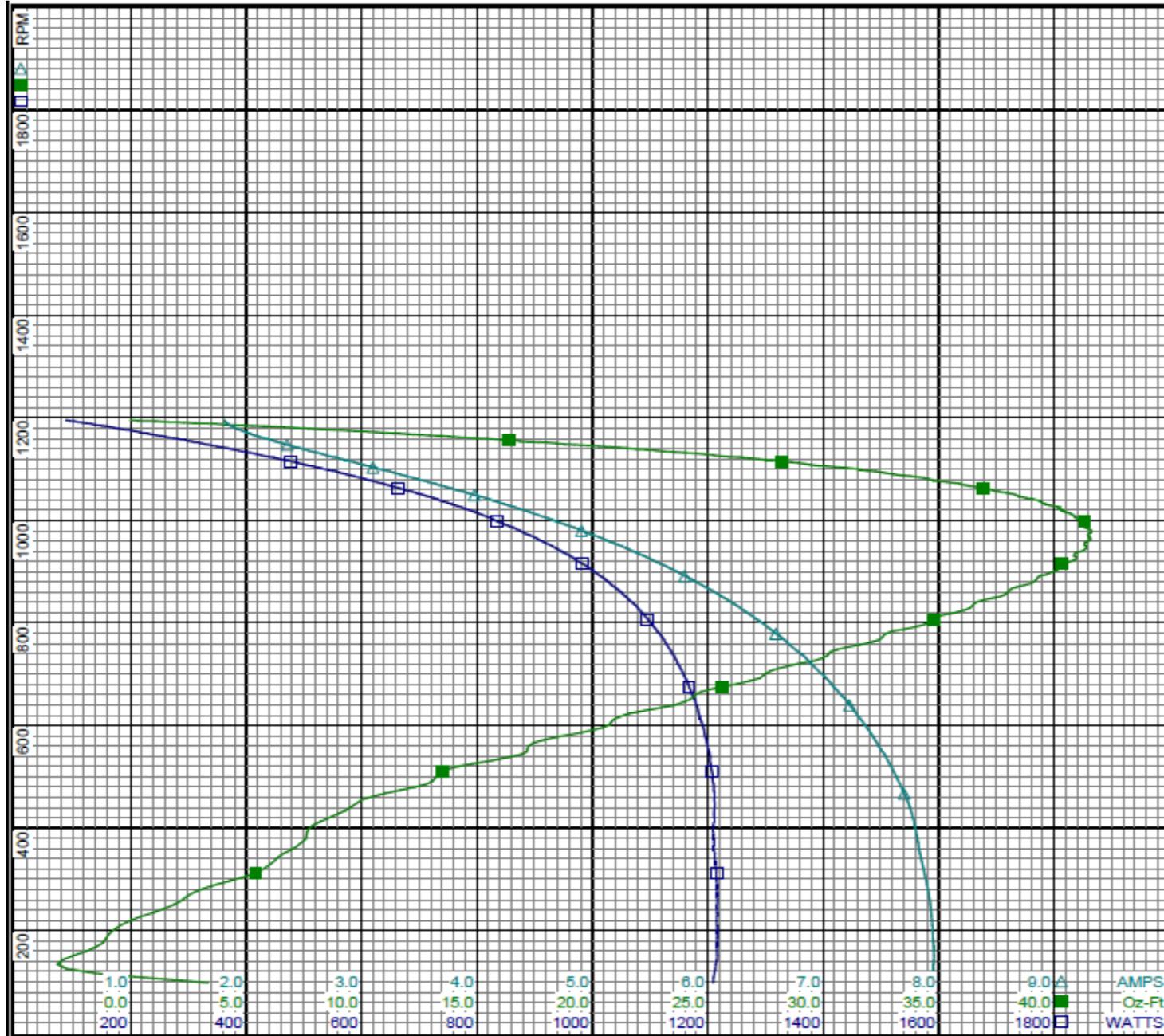
DRAWING NO.	PAGE 7 of 8	REV.
	6XJ44BE	-

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

Performance Data



6XJ44BE REV.
-



Curve Descriptions:
 Motor(1) Test 8 Run 230V 60 Hz 6P
 3 line Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

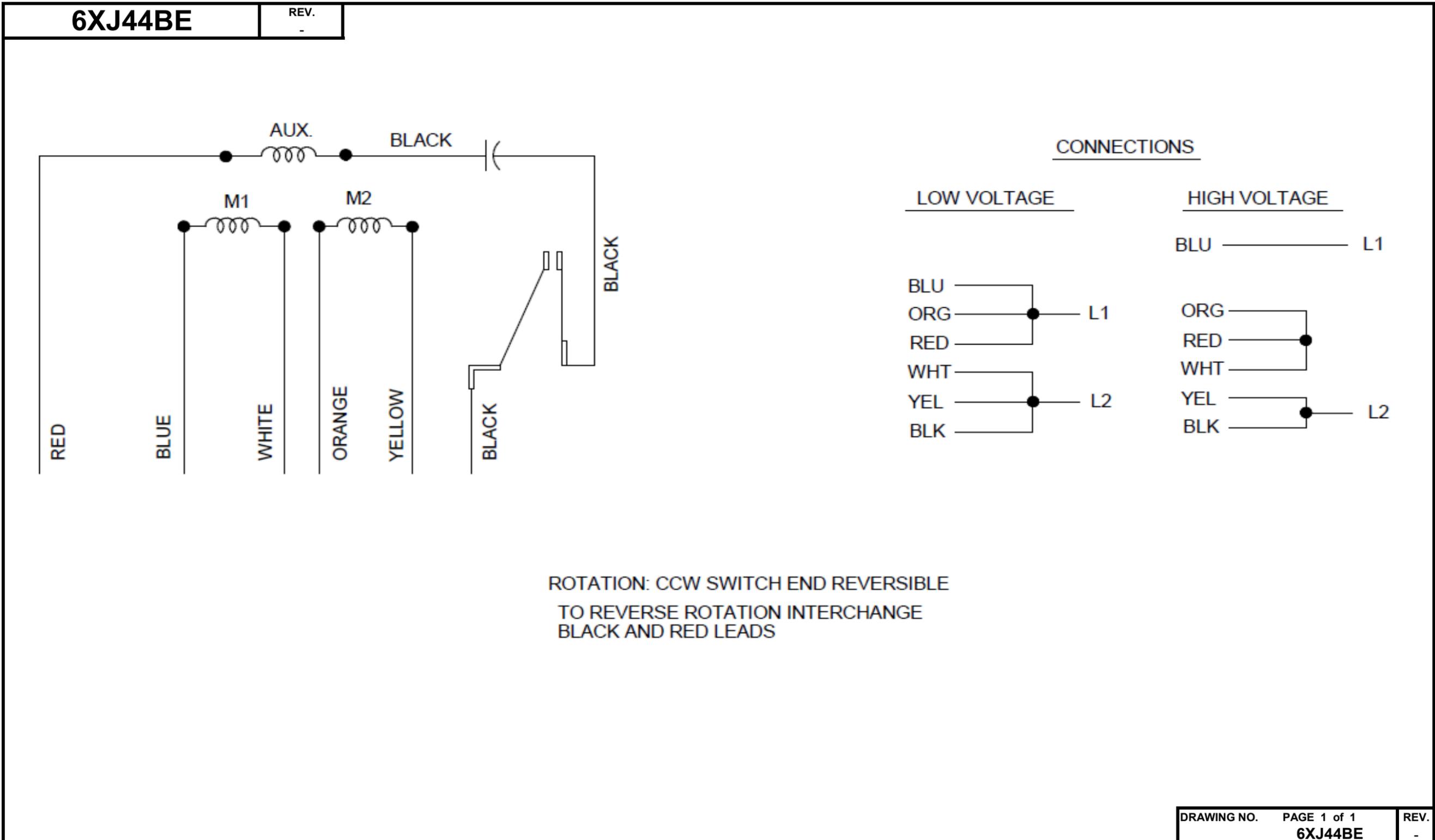
Motor Ratings:
 (1) C063JBY1201 ID: 1

DRAWING NO. PAGE 8 of 8 REV.
6XJ44BE -

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

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Wiring Diagram



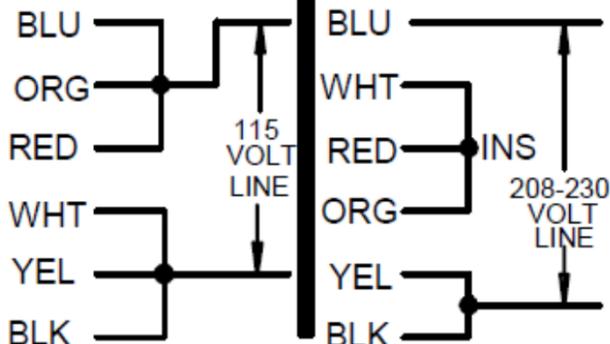
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Dayton[®]Part
No**6XJ44BE****INDUSTRIAL
MOTOR****HP:** 1/4**PH:** 1**VOLTS:** 115/208-230**HZ:** 60**AMPS:** 5.6/2.7-2.8**FR:** 56C**RPM:** 1140**INS CL:** B**DUTY:** CONT**AMB:** 40 °C**SF:** 1.0**SFA:****KVA CODE:** N**ENCL:** TEFC**MTR REF:** C63JBY-1201**THERMALLY PROTECTED:** NONEPROT. CODE. MFG. NO. **S.F. AT 208 VOLTS IS 1.0**

258501



E47479

**Disconnect Power Before Making Any Electrical
Connections or Changes****CONNECTIONS****UNGROUND
SIDE OF LINE**

**MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS**

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

Made in Mexico