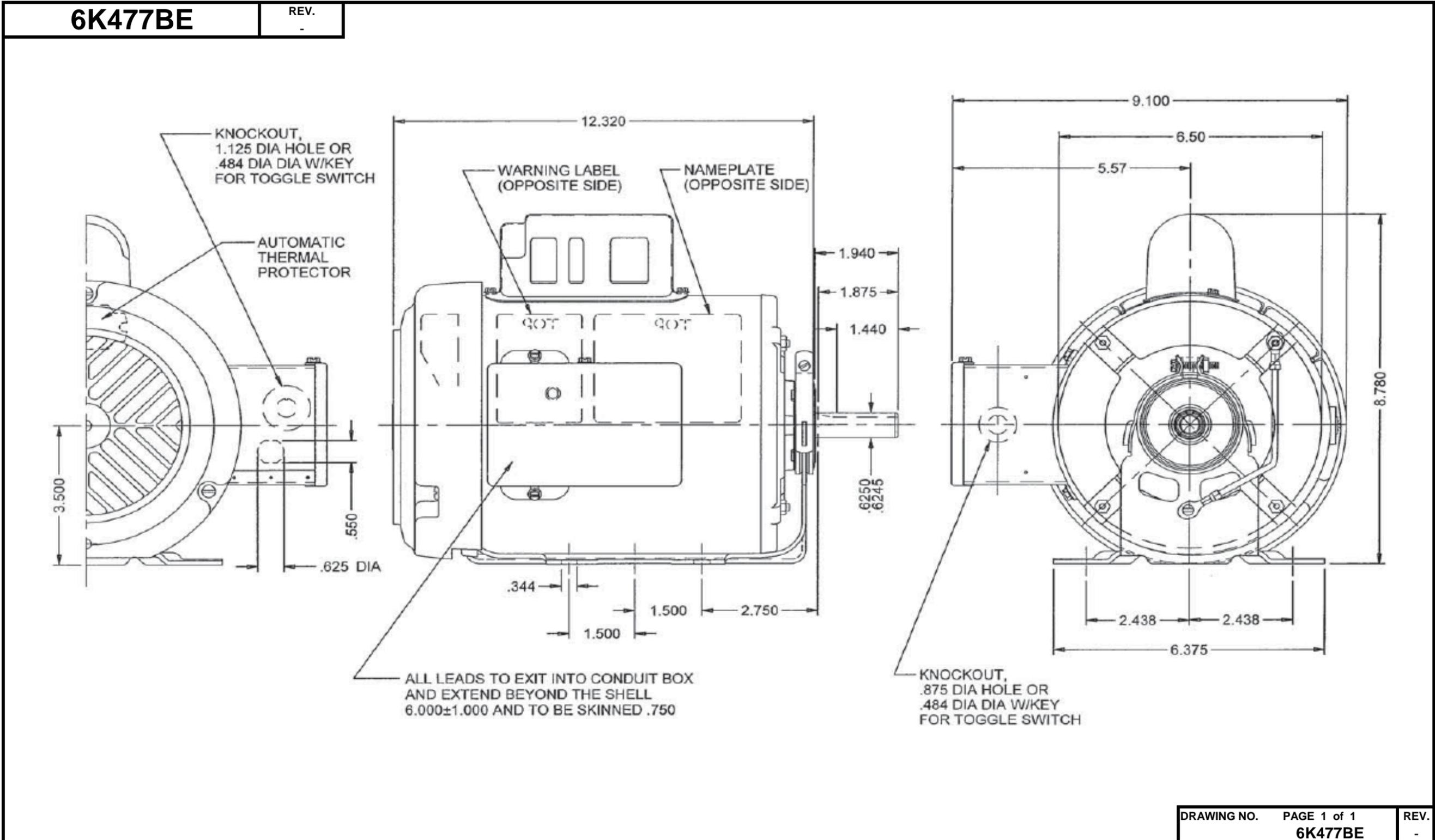


Dimensional Drawing



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

Performance Data



6K477BE

REV.
-

MOTOR PERFORMANCE

HP:	1/2								
Poles:	4								
No. of Speeds:	1								
Volts:	115/230	115	230						
HZ:	60	60	60						
Service Factor:	1								
Efficiency:	@ Rated Load	60.3	60.9						
Power Factor:	@ Rated Load	53.5	52.6						
Amps:	@ No Load								
	@ Rated Load	10.1	5.1						
	@ Service Factor	N/A	N/A						
	@ Locked Rotor	58.35	29.33						
RPM:	@ Rated Load								
Ambient (°C):	40								
Altitude (FASL):									
Torques:	Breakdown	91.57	91.5						
	Locked Rotor	143.16	128.88						
	Pull-Up	143.16	125.19						
	Rated Load								
	Service Factor								
Watts:	Rated Load								
KVA Code:									
Temperature Rise:	@ Rated Load	82.6							
	@ Service Factor	N/A							
Thermal Protector:	Trip Temp (°C)								
Winding Material:	Start (Auxiliary)	Al							
	Run (Main)	Cu							
Capacitor(s):	Start (MFD / Volts)	233-280 MFD / 110 VAC							
	No. of Start Capacitors								
	Run (MFD / Volts)	N/A							
	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:	@ Rated Load								
	Locked Rotor								
	Pull-Up								
	Rated Load								
	Service Factor								
Watts:	@ Rated Load								
Temperature Rise:	@ Rated Load								
	@ Service Factor								

DRAWING NO. PAGE 1 of 1 REV.
6K477BE -

Performance Data



6K477BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063CXFKC1154
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 1
 Protector: CEJ65CS

Test Conditions

Test Type: Start
 Test Number: 10
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: 2 Line Test
 Speed Conn:
 TestBoard: Amps Performance Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 3/28/2012 1:37:06 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.56 Oz-Ft
 Windage Torque: -2.07 Oz-Ft

Special Points PUT OZ-FT	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	115.0	58.35	6180	9	143.16	0.016	0.2	92.1
	115.0	58.35	6180	9	143.16	0.016	0.2	92.1
	115.0	58.28	6181	56	146.06	0.098	1.2	92.2
	115.0	58.10	6174	214	150.09	0.383	4.6	92.4
	115.0	57.72	6157	356	154.27	0.655	7.9	92.8
	115.0	57.34	6127	489	158.69	0.923	11.2	92.9
	115.0	57.11	6113	611	163.90	1.191	14.5	93.1
	115.0	57.21	6154	724	168.81	1.454	17.6	93.5
	115.0	57.12	6182	827	173.98	1.713	20.7	94.1
	115.0	56.90	6193	922	178.26	1.956	23.6	94.6
	115.0	56.59	6196	1010	181.25	2.178	26.2	95.2
	115.0	56.29	6190	1091	182.73	2.373	28.6	95.6
	115.0	55.94	6181	1164	182.28	2.526	30.5	96.1
	115.0	55.59	6172	1232	179.95	2.639	31.9	96.5
	115.0	55.25	6161	1294	176.16	2.713	32.8	97.0
	115.0	54.90	6147	1349	170.77	2.743	33.3	97.4
	115.0	54.55	6128	1401	163.45	2.725	33.2	97.7
	115.0	54.17	6103	1446	154.90	2.667	32.6	98.0
	115.0	30.38	2912	1479	84.60	1.490	38.2	83.4
	115.0	25.34	2404	1523	86.65	1.571	48.8	82.5
	115.0	23.10	2202	1559	83.37	1.547	52.4	82.9
	115.0	21.07	1993	1592	78.79	1.494	55.9	82.2
	115.0	19.13	1790	1623	73.74	1.425	59.4	81.3
	115.0	17.28	1585	1649	66.90	1.313	61.8	79.8
	115.0	15.36	1362	1676	58.49	1.167	63.9	77.1
	115.0	13.66	1156	1700	49.97	1.011	65.3	73.6
	115.0	12.04	941	1722	40.29	0.826	65.5	68.0
	115.0	10.84	744	1743	30.12	0.625	62.7	59.7
	115.0	9.68	510	1764	17.62	0.370	54.1	45.9
	115.0	9.06	304	1784	5.75	0.122	30.0	29.2
	115.0	8.93	199	1802	0.00	0.000	0.0	19.4

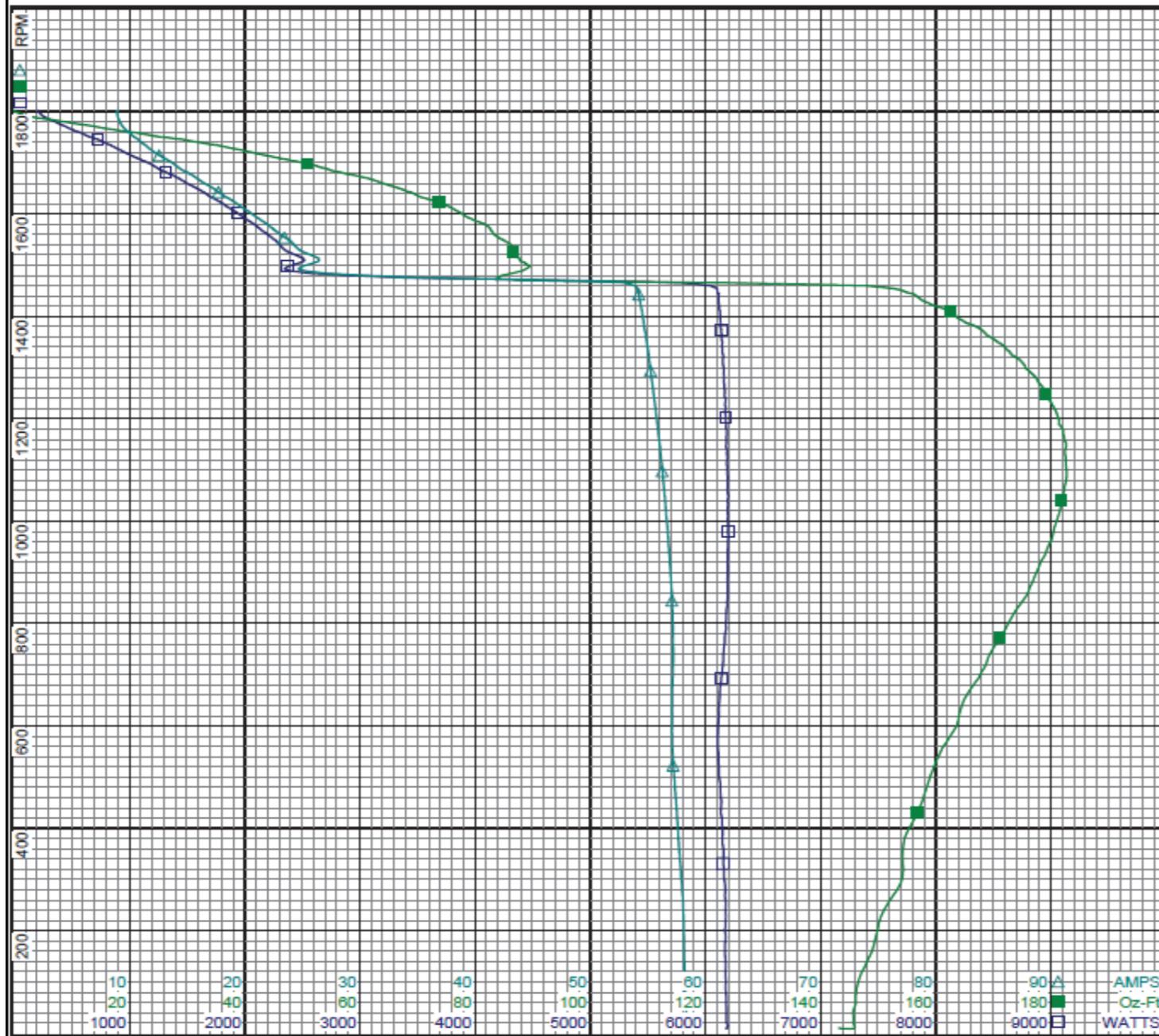
DRAWING NO.	PAGE 1 of 8	REV.
6K477BE		-

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

Performance Data



6K477BE 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) C083CXFKC1154 ID: 1

DRAWING NO. PAGE 2 of 8 REV.
6K477BE -

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

Performance Data



6K477BE REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063CXFKC1154
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 1
 Protector: CEJ65CS

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 4 Start Cap: 0µfd
 Poles: 4
 Volts: 115 Tested: 3/28/2012 12:53:11 PM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.65 Oz-Ft
 Speed Conn: Windage Torque: -2.11 Oz-Ft
 TestBoard: Amps Performance Fixture #1

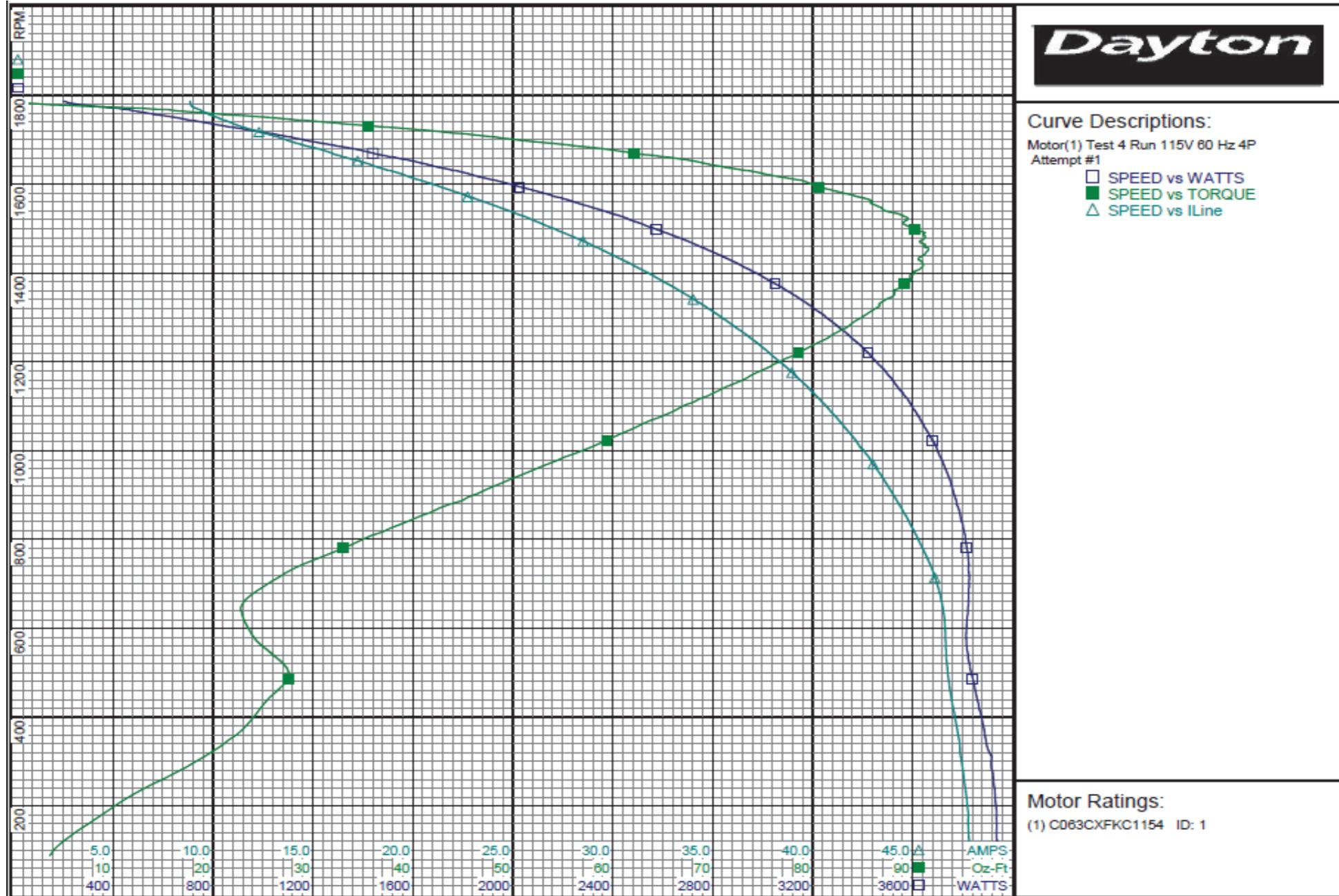
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	8.84	202	1786	0.00	0.000	0.0	19.8
	115.0	9.24	440	1769	14.03	0.295	50.1	41.4
0.5 HP	115.0	10.06	619	1753	23.96	0.500	60.3	53.5
24.4 OZ-FT	115.0	10.10	627	1752	24.40	0.509	60.5	54.0
	115.0	10.29	663	1749	26.31	0.548	61.6	56.1
0.75 HP	115.0	11.39	855	1730	36.42	0.750	65.5	65.3
36.6 OZ-FT	115.0	11.41	858	1729	36.60	0.754	65.5	65.4
	115.0	11.41	859	1729	36.63	0.754	65.5	65.4
1725 RPM	115.0	11.74	911	1725	39.23	0.806	66.0	67.5
	115.0	12.98	1076	1709	46.73	0.951	65.9	72.1
	115.0	14.52	1280	1688	55.62	1.118	65.2	76.6
	115.0	16.28	1481	1665	64.05	1.269	63.9	79.1
	115.0	18.11	1686	1640	70.80	1.382	61.1	81.0
	115.0	20.00	1888	1614	77.45	1.488	58.8	82.1
	115.0	21.97	2090	1585	82.18	1.550	55.4	82.7
	115.0	23.96	2280	1554	86.19	1.594	52.2	82.7
	115.0	25.96	2468	1520	89.52	1.620	49.0	82.7
	115.0	27.93	2647	1483	91.25	1.611	45.4	82.4
BDT OZ-FT	115.0	29.30	2766	1456	91.57	1.587	42.8	82.1
	115.0	29.87	2817	1443	91.26	1.568	41.5	82.0
	115.0	31.82	2977	1399	90.30	1.504	37.7	81.4
	115.0	33.66	3122	1351	88.17	1.418	33.9	80.7
	115.0	35.46	3255	1299	84.87	1.313	30.1	79.8
	115.0	37.20	3378	1243	80.55	1.192	26.3	79.0
	115.0	38.81	3485	1183	75.10	1.057	22.6	78.1
	115.0	40.32	3579	1117	68.70	0.913	19.0	77.2
	115.0	41.73	3656	1046	61.66	0.768	15.7	76.2
	115.0	43.03	3724	970	53.50	0.618	12.4	75.2
	115.0	44.21	3775	887	44.90	0.474	9.4	74.2
	115.0	45.29	3811	799	34.90	0.332	6.5	73.2
	115.0	46.19	3826	705	25.80	0.216	4.2	72.0
	115.0	46.61	3816	604	23.42	0.168	3.3	71.2
	115.0	46.76	3835	498	27.62	0.164	3.2	71.3
	115.0	47.18	3881	384	23.49	0.108	2.1	71.5
	115.0	47.57	3922	260	15.04	0.047	0.9	71.7
	115.0	47.81	3935	131	5.65	0.009	0.2	71.6

DRAWING NO. PAGE 3 of 8 REV.
 6K477BE -

Performance Data



6K477BE REV. -



DRAWING NO. PAGE 4 of 8 REV.
6K477BE -

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

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Performance Data



6K477BE

REV.

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Dayton Manufacturing Company

Motor Description

Model: C063CXFKC1154
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 1
 Protector: CEJ65CS

Test Conditions

Test Type: Start
 Test Number: 15
 Poles: 4
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond: 2 Line Test
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 3/28/2012 2:07:46 PM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.58 Oz-Ft
 Windage Torque: -2.18 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	230.0	29.33	5954	9	128.88	0.014	0.2	88.3
	230.0	29.27	5952	20	125.19	0.030	0.4	88.4
	230.0	29.26	5951	55	127.68	0.084	1.1	88.4
	230.0	29.08	5934	213	131.24	0.333	4.2	88.7
	230.0	28.98	5924	356	136.77	0.580	7.3	88.9
	230.0	28.75	5898	489	141.90	0.826	10.5	89.2
	230.0	28.60	5877	611	146.56	1.066	13.5	89.4
	230.0	28.63	5921	723	150.69	1.297	16.3	89.9
	230.0	28.54	5954	827	155.90	1.535	19.2	90.7
	230.0	28.36	5960	921	160.25	1.758	22.0	91.4
	230.0	28.12	5946	1010	163.65	1.968	24.7	91.9
	230.0	27.86	5936	1090	165.56	2.149	27.0	92.6
	230.0	27.58	5917	1164	165.60	2.296	28.9	93.3
	230.0	27.30	5897	1232	164.14	2.408	30.5	93.9
	230.0	27.01	5869	1294	161.23	2.483	31.6	94.5
	230.0	26.70	5833	1350	156.77	2.519	32.2	95.0
	230.0	26.39	5791	1401	150.32	2.507	32.3	95.4
	230.0	26.07	5750	1447	143.15	2.466	32.0	95.9
	230.0	15.01	2890	1482	84.18	1.485	38.3	83.7
	230.0	12.70	2406	1523	86.85	1.574	48.8	82.4
	230.0	11.60	2194	1560	83.68	1.554	52.8	82.2
	230.0	10.55	1979	1593	79.07	1.499	56.5	81.5
	230.0	9.55	1774	1623	73.93	1.428	60.1	80.7
	230.0	8.62	1567	1651	66.53	1.307	62.2	79.1
	230.0	7.78	1372	1674	59.39	1.184	64.3	76.7
	230.0	6.84	1147	1700	49.93	1.010	65.7	72.9
	230.0	6.04	926	1722	39.82	0.816	65.8	66.6
	230.0	5.45	740	1743	30.21	0.627	63.2	59.0
	230.0	4.90	510	1763	17.69	0.371	54.3	45.2
	230.0	4.58	298	1784	5.59	0.119	29.7	28.3
	230.0	4.50	196	1801	0.00	0.000	0.0	18.9

DRAWING NO. PAGE 5 of 8 REV.
 6K477BE -

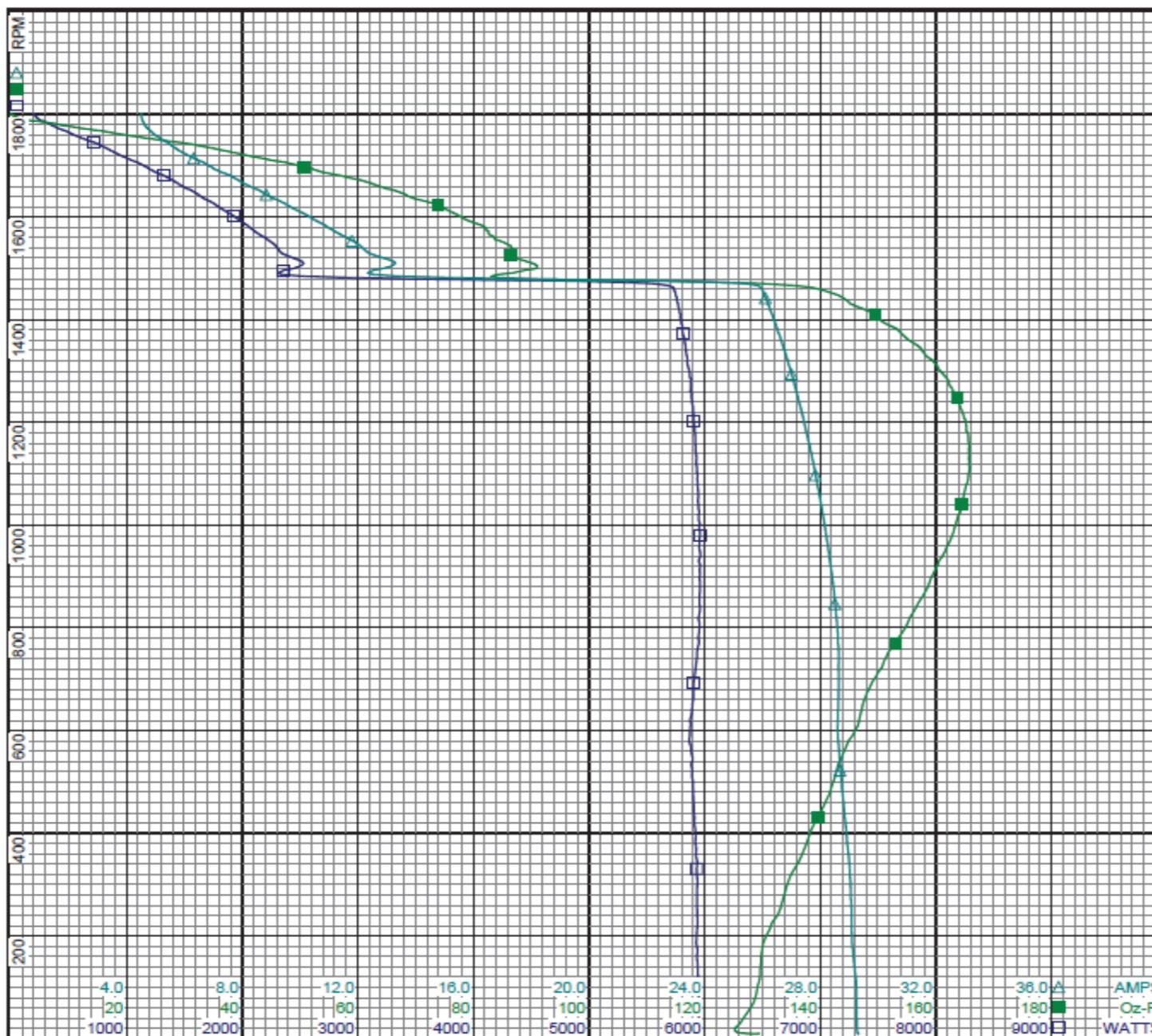
Performance Data



6K477BE

REV.

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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) C063CXFKC1154 ID: 1

DRAWING NO.	PAGE 6 of 8	REV.
6K477BE		-

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

Performance Data



6K477BE REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063CXFKC1154
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 1
 Protector: CEJ65CS

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 12 Start Cap: 0µfd
 Poles: 4
 Volts: 230 Tested: 3/28/2012 2:24:16 PM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation:
 Special Cond: Gear Ratio: 1:1
 Speed Conn: Bearing Friction: -0.67 Oz-Ft
 TestBoard: Windage Torque: -2.35 Oz-Ft
 Amps Performance Fixture #1

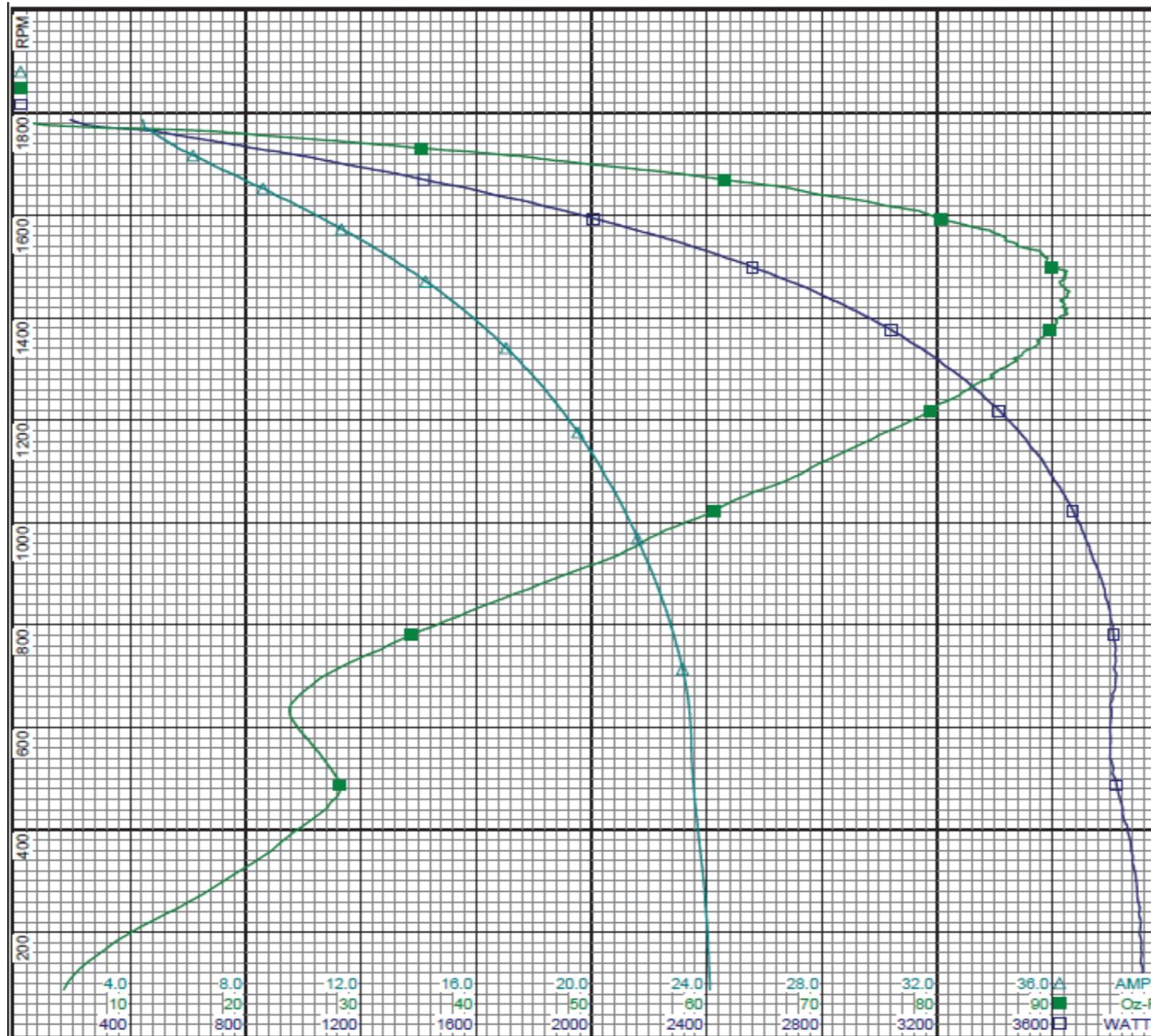
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.44	191	1787	0.00	0.000	0.0	18.8
	230.0	4.59	402	1769	12.35	0.260	48.3	38.1
0.5 HP	230.0	5.06	613	1752	23.98	0.500	60.9	52.6
24.4 OZ-FT	230.0	5.08	621	1751	24.40	0.509	61.1	53.1
	230.0	5.16	650	1748	25.95	0.540	62.0	54.8
	230.0	5.72	849	1730	36.28	0.747	65.7	64.5
0.75 HP	230.0	5.73	852	1729	36.43	0.750	65.7	64.7
36.6 OZ-FT	230.0	5.74	855	1729	36.60	0.753	65.7	64.8
1725 RPM	230.0	5.90	904	1725	39.09	0.803	66.2	66.7
	230.0	6.50	1062	1709	46.15	0.939	66.0	71.1
	230.0	7.26	1266	1688	55.26	1.110	65.4	75.8
	230.0	8.10	1459	1665	63.25	1.253	64.1	78.3
	230.0	9.02	1662	1640	69.94	1.365	61.3	80.1
	230.0	9.97	1866	1614	76.93	1.479	59.1	81.4
	230.0	10.95	2069	1585	81.82	1.543	55.6	82.2
	230.0	11.95	2266	1554	85.95	1.590	52.3	82.4
	230.0	12.96	2455	1520	89.25	1.615	49.1	82.4
	230.0	13.96	2633	1483	91.20	1.610	45.6	82.0
BDT OZ-FT	230.0	14.75	2775	1451	91.50	1.581	42.5	81.8
	230.0	14.94	2805	1443	91.33	1.569	41.7	81.6
	230.0	15.92	2970	1398	90.47	1.506	37.8	81.1
	230.0	16.86	3112	1351	88.82	1.428	34.2	80.3
	230.0	17.76	3244	1300	85.47	1.323	30.4	79.4
	230.0	18.64	3367	1243	81.38	1.204	26.7	78.5
	230.0	19.46	3478	1182	76.17	1.072	23.0	77.7
	230.0	20.23	3570	1117	69.88	0.929	19.4	76.7
	230.0	20.96	3649	1045	62.56	0.778	15.9	75.7
	230.0	21.61	3714	969	55.00	0.635	12.7	74.7
	230.0	22.21	3771	887	46.44	0.490	9.7	73.8
	230.0	22.76	3810	798	36.40	0.346	6.8	72.8
	230.0	23.21	3822	704	27.13	0.227	4.4	71.6
	230.0	23.44	3801	604	24.38	0.175	3.4	70.5
	230.0	23.53	3820	498	28.04	0.166	3.2	70.6
	230.0	23.73	3868	384	23.52	0.107	2.1	70.9
	230.0	23.94	3897	260	15.17	0.047	0.9	70.8
	230.0	24.08	3912	130	5.69	0.009	0.2	70.6

DRAWING NO. PAGE 7 of 8 REV.
6K477BE -

Performance Data



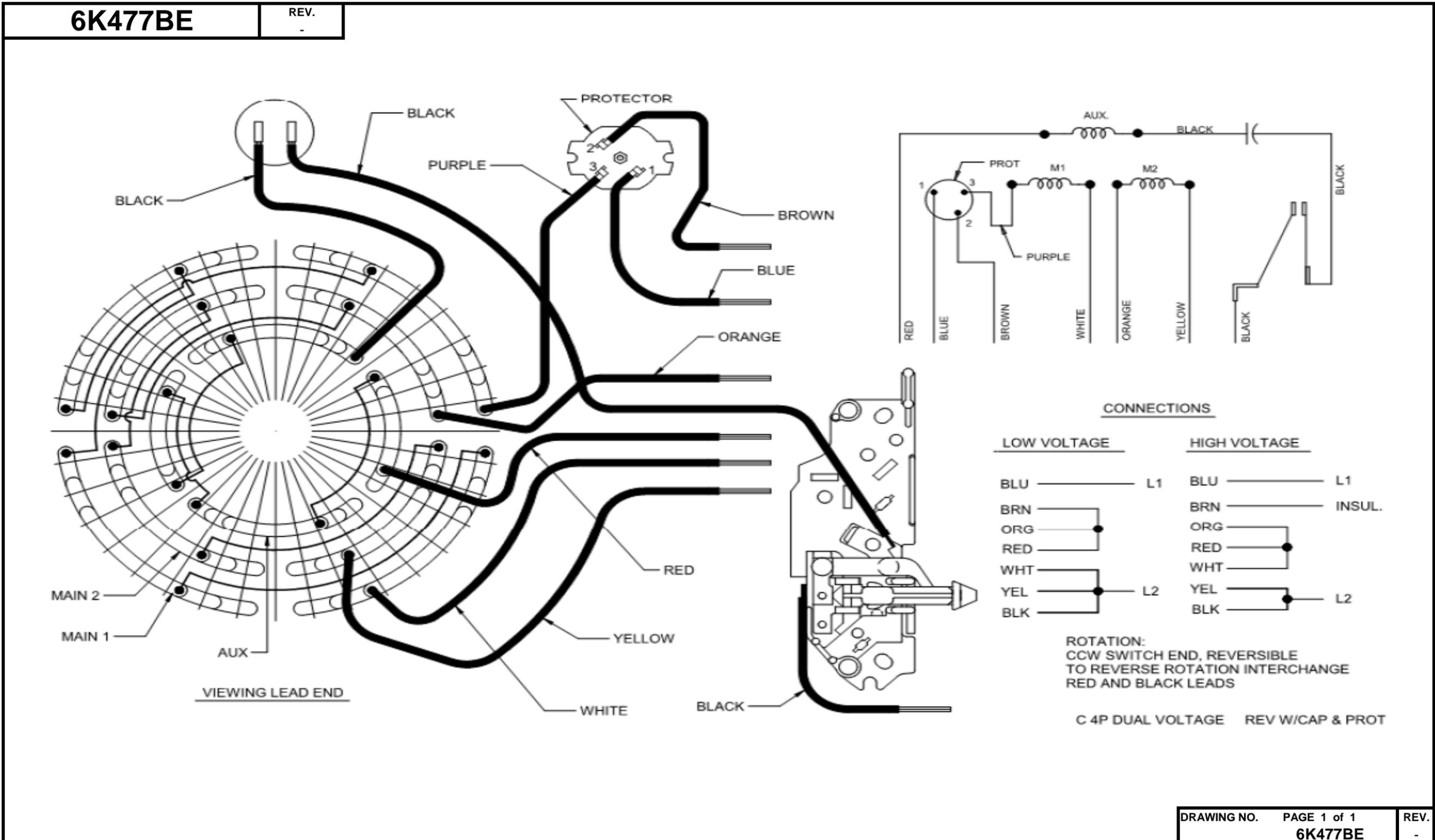
6K477BE REV. -



DRAWING NO. PAGE 8 of 8 REV.
6K477BE -

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

Wiring Diagram



DRAWING NO.	PAGE 1 of 1	REV.
6K477BE	6K477BE	-

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

Dayton[®]Part
No**6K477BE****INDUSTRIAL
MOTOR****HP:** 1/2**PH:** 1**VOLTS:** 115/230**HZ:** 60**AMPS:** 10.1/5.1**FR:** 56**RPM:** 1725**INS CL:** B**DUTY:** CONT**AMB:** 40°C**SF:** 1.0**SFA:****KVA CODE:** L**ENCL:** TEFC**MTR REF:** C63CXFKC-1154**THERMALLY PROTECTED:** AUTOPROT. CODE 00560 MFG. NO 

258501



E37403

**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS**

115 VOLTS

BLUE ——— L1

BROWN ———]

RED ———] INSUL

ORANGE ———]

WHITE ———]

YELLOW ———] L2

BLACK ———]

230 VOLTS

BLUE ——— L1

BROWN ———]

RED ———] INSUL

ORANGE ———]

WHITE ———]

YELLOW ———]

BLACK ———] L2

**TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS****Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**