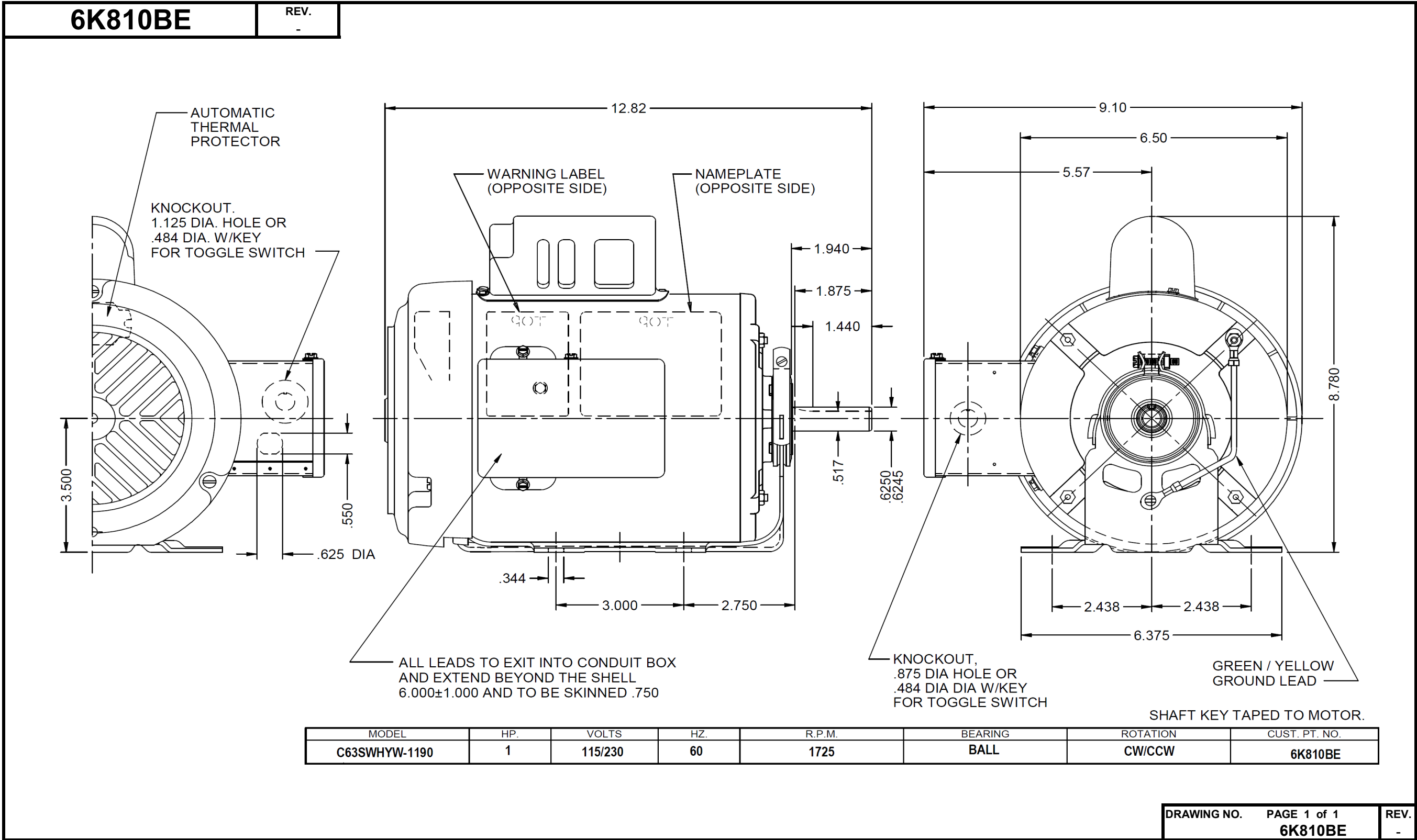


Dimensional Drawing



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

Performance Data



6K810BE

REV.
-

MOTOR PERFORMANCE

HP:	1 HP							
Poles:	4							
No. of Speeds:	1							
Volts:	115/230	115	230					
HZ:	60	60	60					
Service Factor:	1							
Efficiency:	@ Rated Load	72.3	72					
Power Factor:	@ Rated Load	69.5	69.2					
Amps:	@ No Load							
	@ Rated Load	13.1	6.6					
	@ Service Factor							
	@ Locked Rotor	75.5	38.9					
RPM:	@ Rated Load							
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	132.9	134.1					
	Locked Rotor	162.7	154.2					
	Pull-Up	162.7	150.3					
	Rated Load							
	Service Factor							
Watts:	Rated Load							
KVA Code:								
Temperature Rise:	@ Rated Load	92.1						
	@ Service Factor							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Al						
Capacitor(s):	Start (MFD / Volts)	540-648 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 REV.
6K810BE -

Performance Data



6K810BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063CXHYW1190
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 1
 Speed: 1725
 Phase: 1
 Protector: CEJ40CX

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: 8/30/2012 9:59:21 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.64 Oz-Ft
 Windage Torque: -2.24 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	75.52	7629	15	162.7	0.029	0.3	87.8
	115.0	75.52	7629	15	162.7	0.029	0.3	87.8
	115.0	75.53	7629	61	169.4	0.122	1.2	87.8
	115.0	75.24	7625	218	171.8	0.446	4.4	88.1
	115.0	74.77	7610	362	181.1	0.781	7.7	88.5
	115.0	74.08	7560	495	190.0	1.119	11.0	88.7
	115.0	73.66	7527	616	199.4	1.462	14.5	88.9
	115.0	74.00	7607	729	207.9	1.803	17.7	89.4
	115.0	73.90	7690	834	218.9	2.174	21.1	90.5
	115.0	73.35	7704	929	228.3	2.526	24.5	91.3
	115.0	72.74	7705	1018	235.5	2.855	27.6	92.1
	115.0	72.12	7700	1099	240.6	3.146	30.5	92.8
	115.0	71.52	7692	1173	243.4	3.398	33.0	93.5
	115.0	70.91	7685	1239	244.2	3.603	35.0	94.2
	115.0	70.30	7671	1300	242.5	3.754	36.5	94.9
	115.0	69.71	7656	1355	237.7	3.835	37.4	95.5
	115.0	69.13	7632	1407	232.3	3.890	38.0	96.0
	115.0	68.52	7605	1453	221.6	3.833	37.6	96.5
	115.0	37.48	3445	1481	127.2	2.243	48.6	79.9
	115.0	36.05	3407	1525	128.1	2.326	50.9	82.2
	115.0	33.00	3145	1563	124.0	2.307	54.7	82.9
	115.0	29.85	2855	1597	117.0	2.225	58.1	83.2
	115.0	26.89	2567	1628	109.2	2.116	61.5	83.0
	115.0	23.97	2270	1656	101.8	2.006	65.9	82.4
	115.0	21.12	1971	1680	89.1	1.781	67.4	81.1
	115.0	18.46	1682	1704	79.0	1.604	71.1	79.2
	115.0	15.83	1380	1725	64.5	1.325	71.7	75.8
	115.0	13.59	1081	1746	50.0	1.040	71.8	69.2
	115.0	11.23	745	1767	33.1	0.696	69.6	57.7
	115.0	9.74	431	1788	14.9	0.317	55.0	38.4
	115.0	9.18	209	1802	1.6	0.035	12.6	19.8

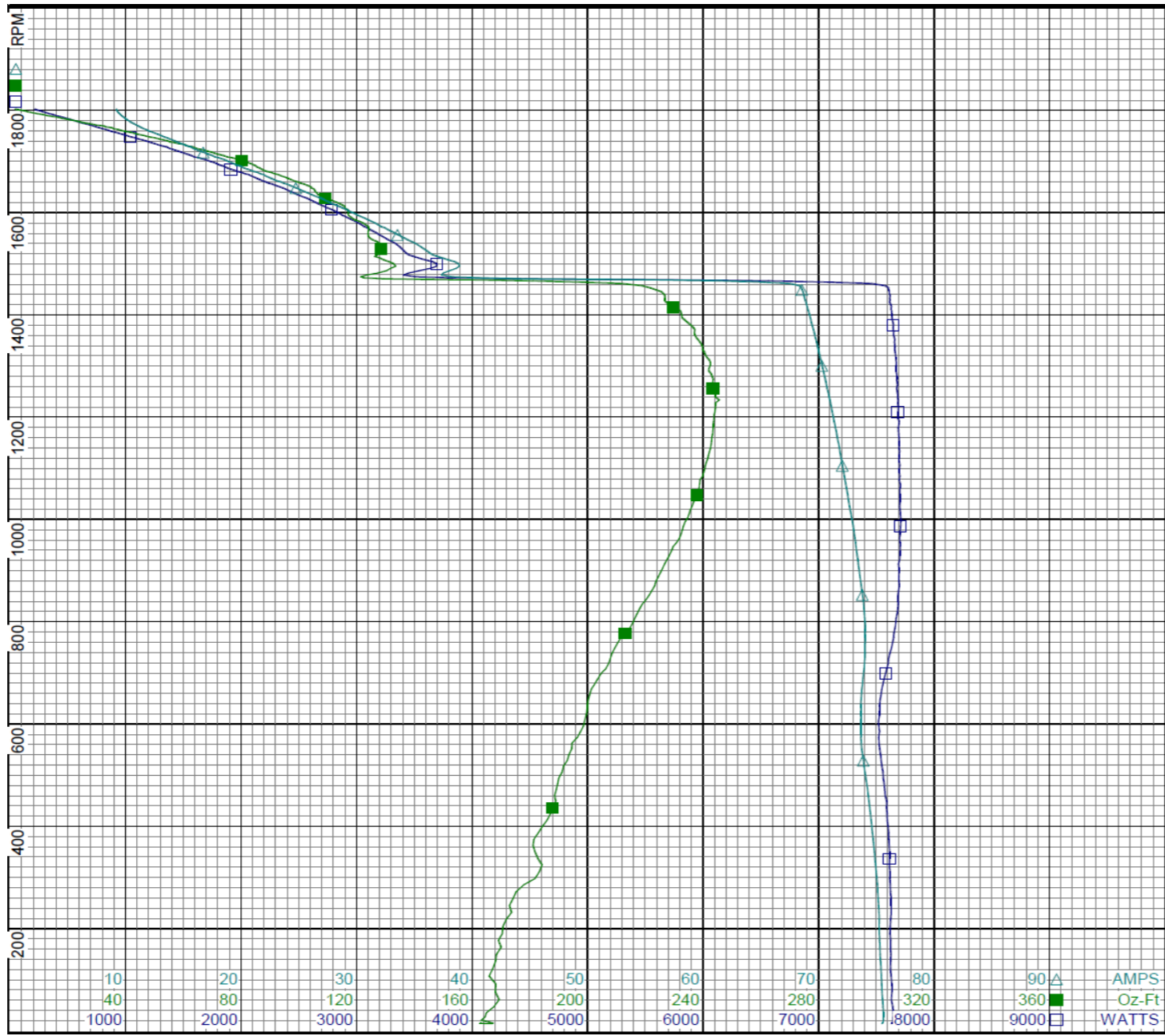
DRAWING NO.	PAGE 1 of 8	REV.
6K810BE		-

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

Performance Data



6K810BE 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) C063CXHYW1190 ID: 1

DRAWING NO. PAGE 2 of 8 REV.
6K810BE -

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

Performance Data



6K810BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: C063CXHYW1190
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 1
 Speed: 1725
 Phase: 1
 Protector: CEJ40CX

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: 8/30/2012 10:16:01 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.80 Oz-Ft
 Windage Torque: -2.56 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	8.97	181	1795	0.00	0.000	0.0	17.5
	115.0	9.85	511	1777	19.58	0.414	60.5	45.1
	115.0	11.66	829	1759	37.17	0.778	70.0	61.8
1 HP	115.0	13.00	1034	1746	48.11	1.000	72.1	69.2
1 HP	115.0	13.00	1034	1746	48.11	1.000	72.1	69.2
48.8 OZ-FT	115.0	13.09	1047	1745	48.80	1.014	72.3	69.5
	115.0	13.75	1138	1740	53.43	1.107	72.6	71.9
1725 RPM	115.0	15.62	1370	1725	65.17	1.338	72.9	76.2
	115.0	16.29	1444	1720	68.59	1.404	72.6	77.1
	115.0	18.93	1758	1698	82.03	1.658	70.4	80.8
	115.0	21.62	2044	1675	93.10	1.857	67.8	82.2
	115.0	24.53	2339	1650	104.86	2.060	65.7	82.9
	115.0	27.40	2631	1625	112.32	2.172	61.6	83.5
	115.0	30.42	2921	1595	120.70	2.292	58.5	83.5
	115.0	33.35	3186	1564	127.66	2.377	55.6	83.1
	115.0	36.24	3440	1530	130.02	2.368	51.3	82.5
	115.0	39.16	3689	1493	131.34	2.335	47.2	81.9
BDT OZ-FT	115.0	40.32	3781	1477	132.87	2.337	46.1	81.5
	115.0	42.01	3913	1453	131.37	2.272	43.3	81.0
	115.0	44.78	4126	1410	130.06	2.182	39.5	80.1
	115.0	47.49	4315	1361	125.72	2.037	35.2	79.0
	115.0	49.99	4474	1309	120.87	1.884	31.4	77.8
	115.0	52.40	4624	1254	113.92	1.701	27.4	76.7
	115.0	54.71	4752	1194	106.04	1.507	23.7	75.5
	115.0	56.85	4865	1128	96.38	1.294	19.8	74.4
	115.0	58.86	4960	1057	85.45	1.075	16.2	73.3
	115.0	60.68	5032	981	73.55	0.859	12.7	72.1
	115.0	62.37	5088	898	60.50	0.647	9.5	70.9
	115.0	63.85	5125	810	45.19	0.436	6.3	69.8
	115.0	65.02	5117	716	31.09	0.265	3.9	68.4
	115.0	65.45	5073	617	27.76	0.204	3.0	67.4
	115.0	65.41	5093	513	39.02	0.238	3.5	67.7
	115.0	66.06	5168	400	34.37	0.164	2.4	68.0
	115.0	66.72	5212	277	19.86	0.065	0.9	67.9
	115.0	67.18	5222	146	4.74	0.008	0.1	67.6

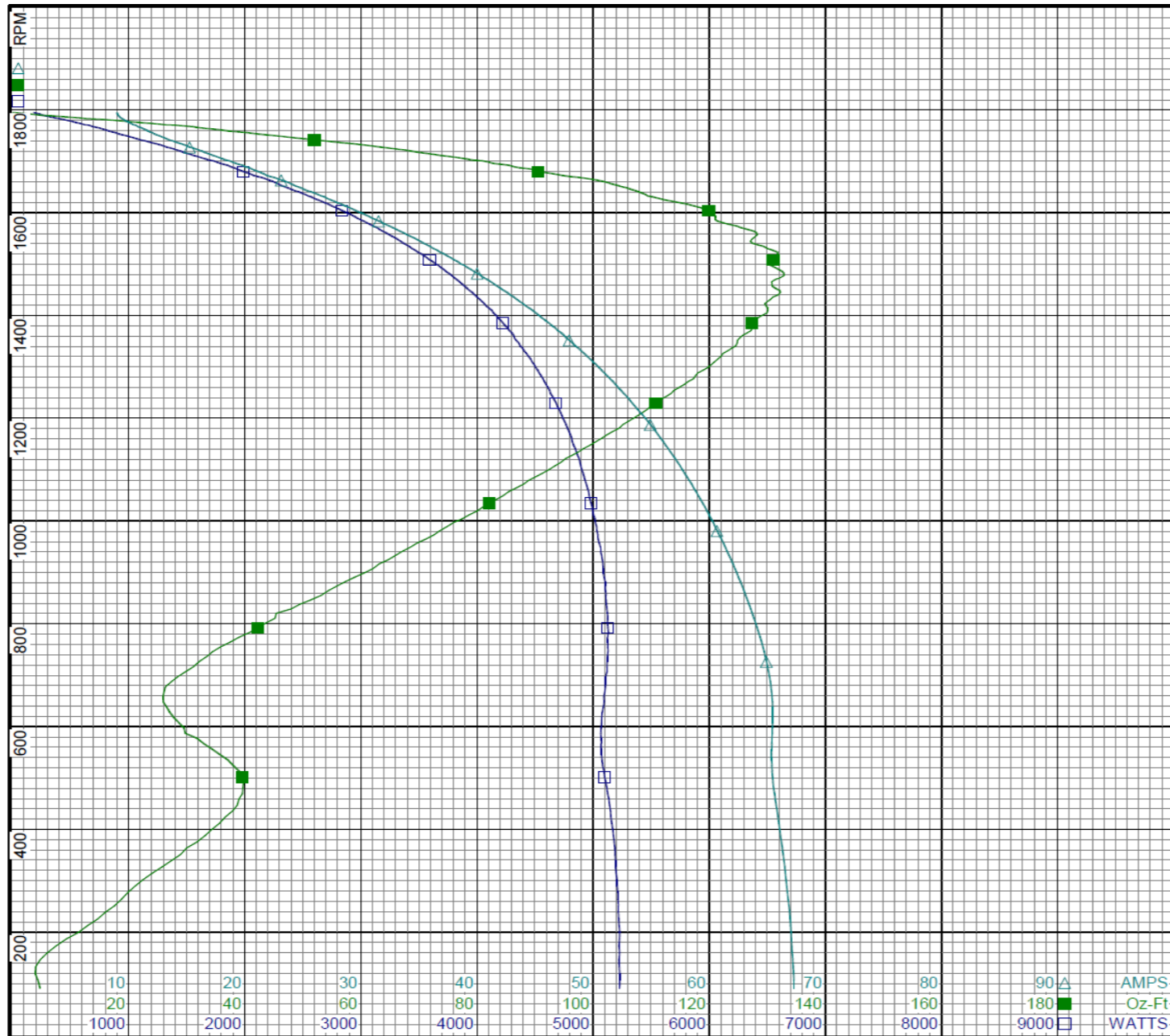
DRAWING NO.	PAGE 3 of 8	REV.
	6K810BE	-

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

Performance Data



6K810BE 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) C063CXHYW1190 ID: 1

DRAWING NO. PAGE 4 of 8 REV.
6K810BE -

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

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Performance Data



6K810BE REV.
-

Dayton Manufacturing Company

Motor Description

Model: C063CXHYW1190
 Motor ID: 1
 Poles: 4
 Volts: 115/230
 Frequency: 60
 HP: 1
 Speed: 1725
 Phase: 1
 Protector: CEJ40CX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 15 Start Cap: 0µfd
 Poles: 4
 Volts: 230 Tested: 8/30/2012 8:45:31 AM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation:
 Special Cond: 2 Line Test Gear Ratio: 1:1
 Speed Conn: Bearing Friction: -0.48 Oz-Ft
 TestBoard: Amtps Performance Fixture #1 Windage Torque: -2.08 Oz-Ft

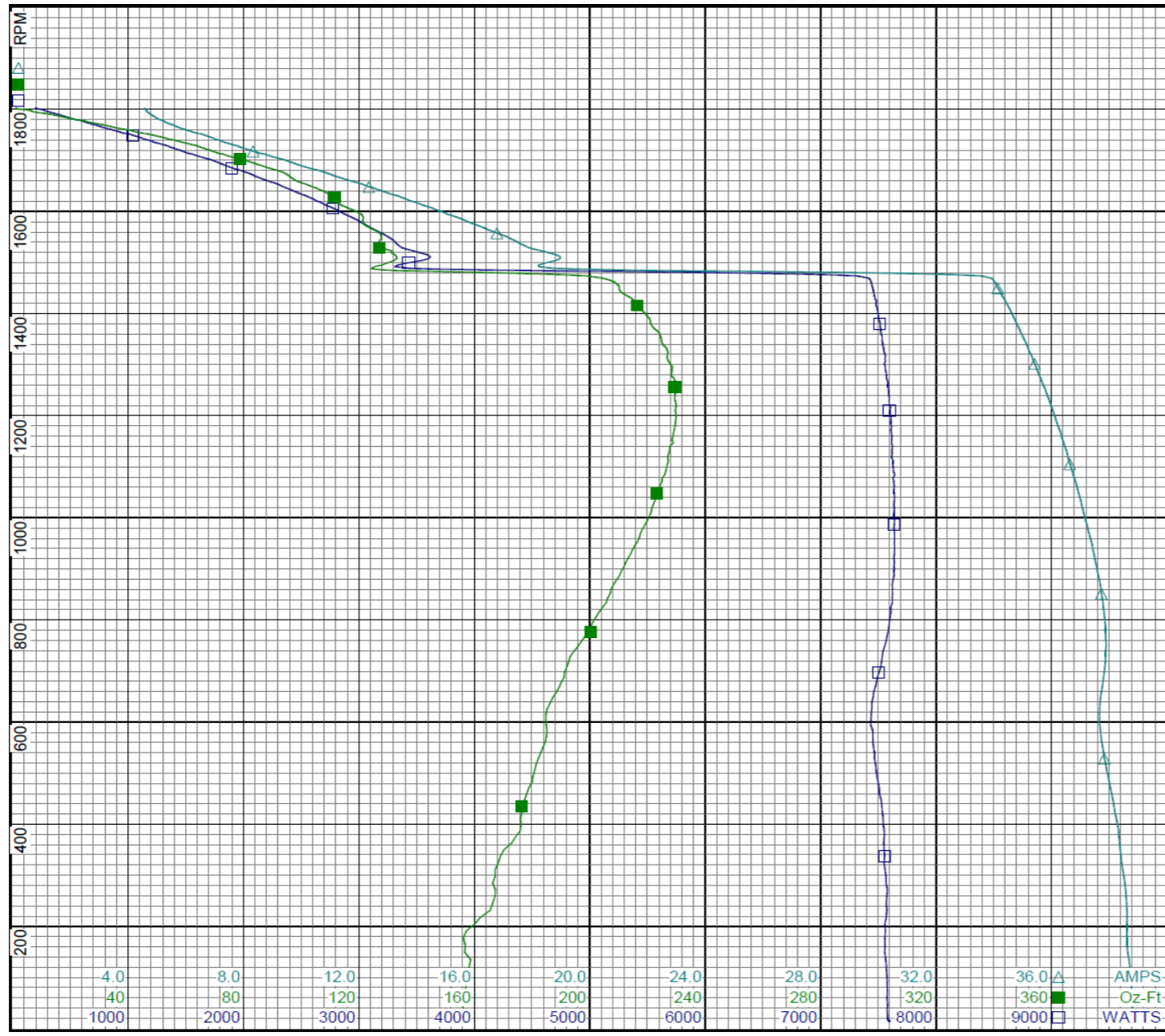
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	230.0	38.87	7596	14	154.2	0.026	0.3	85.0
	230.0	38.91	7593	14	150.3	0.026	0.3	84.8
	230.0	38.78	7574	59	157.4	0.111	1.1	84.9
	230.0	38.62	7567	217	162.0	0.419	4.1	85.2
	230.0	38.36	7546	362	172.8	0.746	7.4	85.5
	230.0	37.96	7488	494	180.3	1.061	10.6	85.8
	230.0	37.66	7438	616	184.7	1.354	13.6	85.9
	230.0	37.88	7534	728	193.1	1.674	16.6	86.5
	230.0	37.78	7620	833	205.6	2.039	20.0	87.7
	230.0	37.47	7637	929	214.1	2.368	23.1	88.6
	230.0	37.08	7638	1018	221.5	2.683	26.2	89.6
	230.0	36.68	7627	1098	226.6	2.963	29.0	90.4
	230.0	36.28	7609	1172	229.3	3.200	31.4	91.2
	230.0	35.86	7591	1239	229.5	3.385	33.3	92.0
	230.0	35.42	7551	1301	227.8	3.530	34.9	92.7
	230.0	34.99	7529	1357	224.4	3.623	35.9	93.6
	230.0	34.56	7492	1407	217.6	3.647	36.3	94.2
	230.0	34.11	7445	1454	210.1	3.636	36.4	94.9
	230.0	20.11	3829	1486	126.2	2.232	43.5	82.8
	230.0	18.08	3413	1526	129.2	2.346	51.3	82.1
	230.0	16.49	3139	1563	125.3	2.331	55.4	82.8
	230.0	14.93	2845	1598	119.6	2.274	59.6	82.9
	230.0	13.43	2561	1628	111.5	2.161	63.0	82.9
	230.0	11.98	2268	1655	100.2	1.975	65.0	82.3
	230.0	10.53	1958	1681	91.0	1.822	69.4	80.9
	230.0	9.21	1671	1704	77.8	1.578	70.5	78.9
	230.0	7.89	1369	1725	65.1	1.337	72.8	75.4
	230.0	6.80	1079	1746	50.8	1.056	73.0	69.0
	230.0	5.61	738	1768	32.7	0.688	69.5	57.2
	230.0	4.83	421	1788	14.7	0.313	55.5	37.9
	230.0	4.57	192	1802	0.9	0.020	7.7	18.3

DRAWING NO. PAGE 5 of 8 REV.
 6K810BE -

Performance Data



6K810BE 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) C063CXHYW1190 ID: 1

DRAWING NO. PAGE 6 of 8 REV.
6K810BE -

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

Performance Data



6K810BE	REV.
	-

Dayton Manufacturing Company

Motor Description

Model: C063CXHYW1190
Motor ID: 1
Poles: 4
Volts: 115/230
Frequency: 60
HP: 1
Speed: 1725
Phase: 1
Protector: CEJ40CX

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: 8/30/2012 8:27:47 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.96 Oz-Ft
Windage Torque: -2.56 Oz-Ft

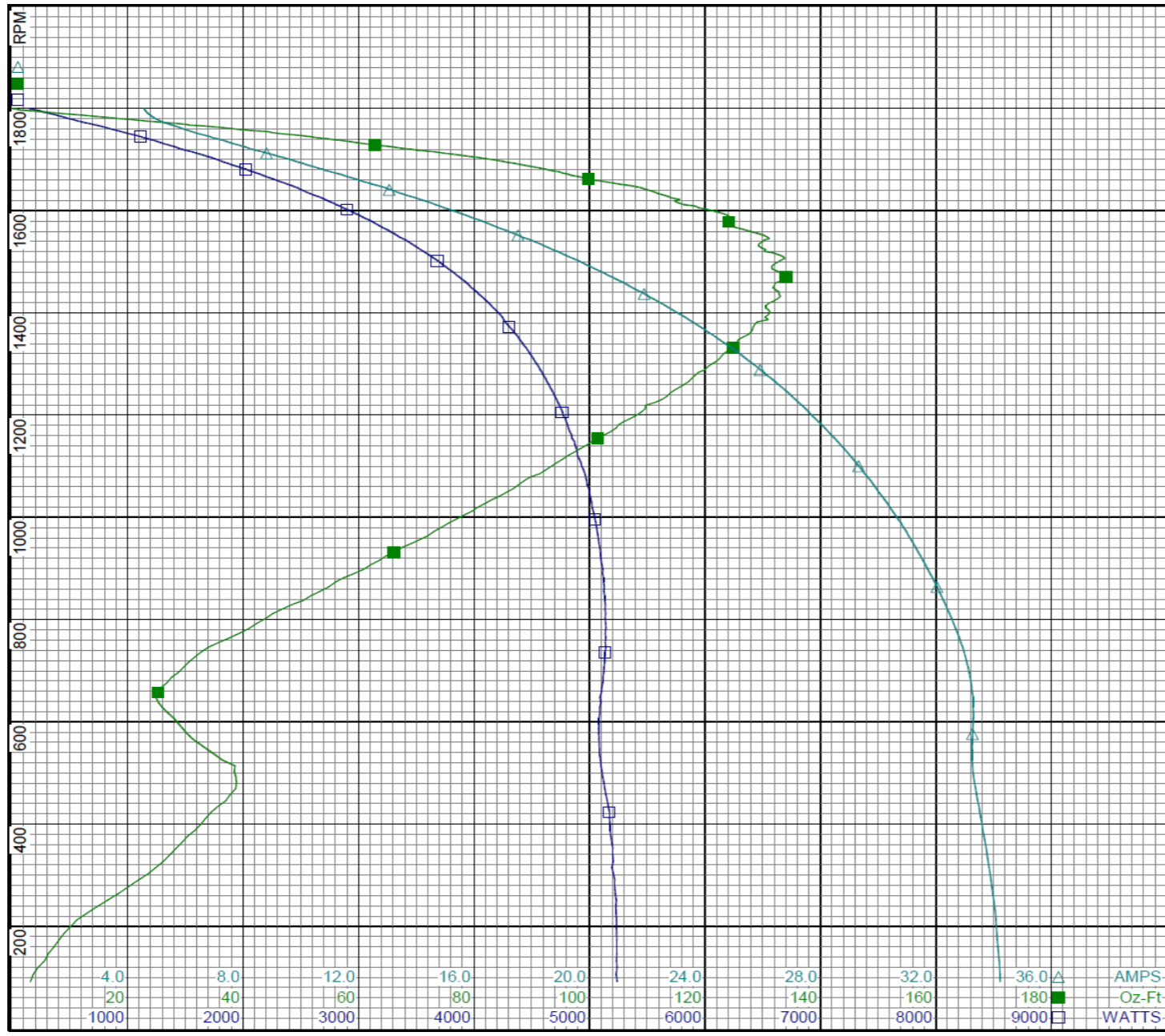
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.57	146	1800	0.00	0.000	0.0	13.9
	230.0	4.90	458	1782	16.56	0.351	57.3	40.6
	230.0	5.71	785	1764	34.75	0.730	69.4	59.7
1 HP	230.0	6.55	1037	1749	48.03	1.000	72.0	68.8
1 HP	230.0	6.55	1037	1749	48.03	1.000	72.0	68.8
48.8 OZ-FT	230.0	6.61	1052	1748	48.80	1.016	72.0	69.2
	230.0	6.83	1108	1745	51.41	1.068	71.9	70.6
1725 RPM	230.0	8.03	1402	1725	65.37	1.342	71.4	75.9
	230.0	8.06	1409	1725	65.70	1.349	71.4	76.0
	230.0	9.38	1721	1704	80.56	1.634	70.9	79.8
	230.0	10.73	2022	1681	92.31	1.847	68.1	81.9
	230.0	12.18	2321	1656	102.66	2.024	65.1	82.9
	230.0	13.64	2612	1630	112.88	2.191	62.6	83.3
	230.0	15.13	2900	1602	120.27	2.294	59.0	83.3
	230.0	16.63	3172	1571	124.55	2.330	54.8	82.9
	230.0	18.12	3435	1538	129.87	2.378	51.6	82.4
	230.0	19.59	3681	1502	133.04	2.379	48.2	81.7
BDT OZ-FT	230.0	20.62	3848	1474	134.11	2.353	45.6	81.1
	230.0	21.06	3916	1462	133.19	2.318	44.2	80.9
	230.0	22.48	4128	1419	131.02	2.213	40.0	79.8
	230.0	23.84	4305	1372	128.33	2.096	36.3	78.5
	230.0	25.16	4479	1321	123.38	1.941	32.3	77.4
	230.0	26.42	4628	1265	117.19	1.765	28.5	76.2
	230.0	27.59	4764	1206	108.97	1.564	24.5	75.1
	230.0	28.70	4874	1141	99.52	1.352	20.7	73.8
	230.0	29.74	4974	1071	88.67	1.131	17.0	72.7
	230.0	30.69	5045	996	76.90	0.912	13.5	71.5
	230.0	31.55	5099	915	63.55	0.692	10.1	70.3
	230.0	32.33	5136	829	48.45	0.478	6.9	69.1
	230.0	32.97	5132	736	32.67	0.286	4.2	67.7
	230.0	33.29	5098	637	25.32	0.192	2.8	66.6
	230.0	33.26	5086	535	35.10	0.224	3.3	66.5
	230.0	33.52	5171	424	34.52	0.174	2.5	67.1
	230.0	33.88	5207	302	23.43	0.084	1.2	66.8
	230.0	34.12	5235	172	8.06	0.017	0.2	66.7

DRAWING NO.	PAGE 7 of 8	REV.
6K810BE		-

Performance Data



6K810BE REV. -



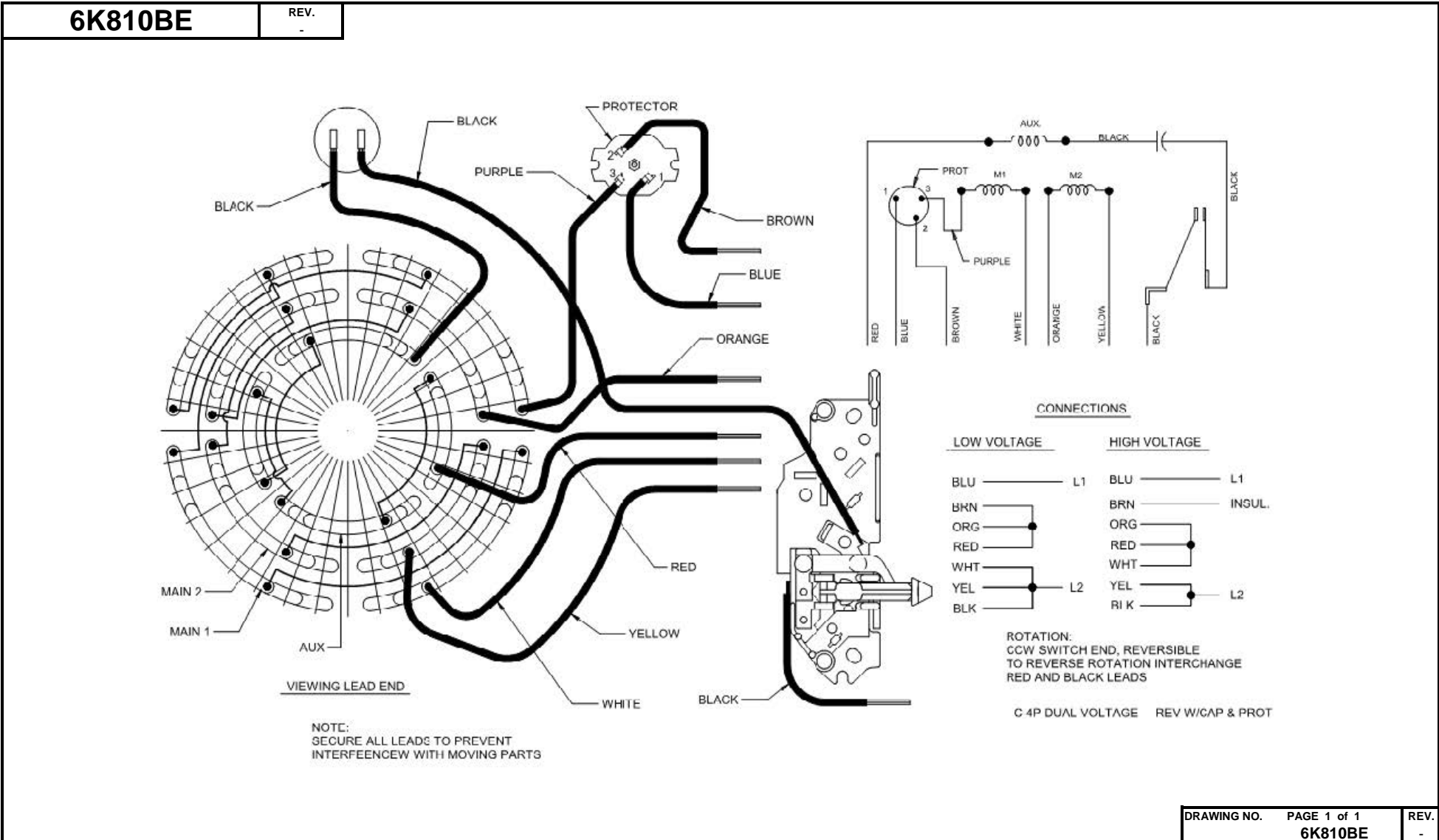
Curve Descriptions:
 Motor(1) Test 12 Run 230V 60 Hz 4P
 Attempt #1
 □ SPEED vs WATTS
 ■ SPEED vs TORQUE
 △ SPEED vs ILine

Motor Ratings:
 (1) C063CXHYW1190 ID: 1

DRAWING NO. PAGE 8 of 8 REV.
6K810BE -

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

Wiring Diagram



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

Dayton[®]Part No **6K810BE****INDUSTRIAL
MOTOR**

HP: 1 **PH:** 1
VOLTS: 115/230 **HZ:** 60
AMPS: 13.1/6.6 **FR:** 56
RPM: 1725 **INS CL:** F
DUTY: CONT **AMB:** 40°C
SF: 1.0 **SFA:**
KVA CODE: K **ENCL:** TEFC
MTR REF: C63SWHYW-1190
THERMALLY PROTECTED: AUTO

PROT. CODE 00540 MFG. NO 

258501

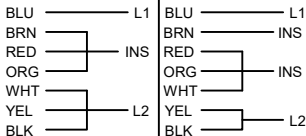


E37403

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

LOW VOLTAGE

HIGH VOLTAGE

**TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS**

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

Made in Mexico