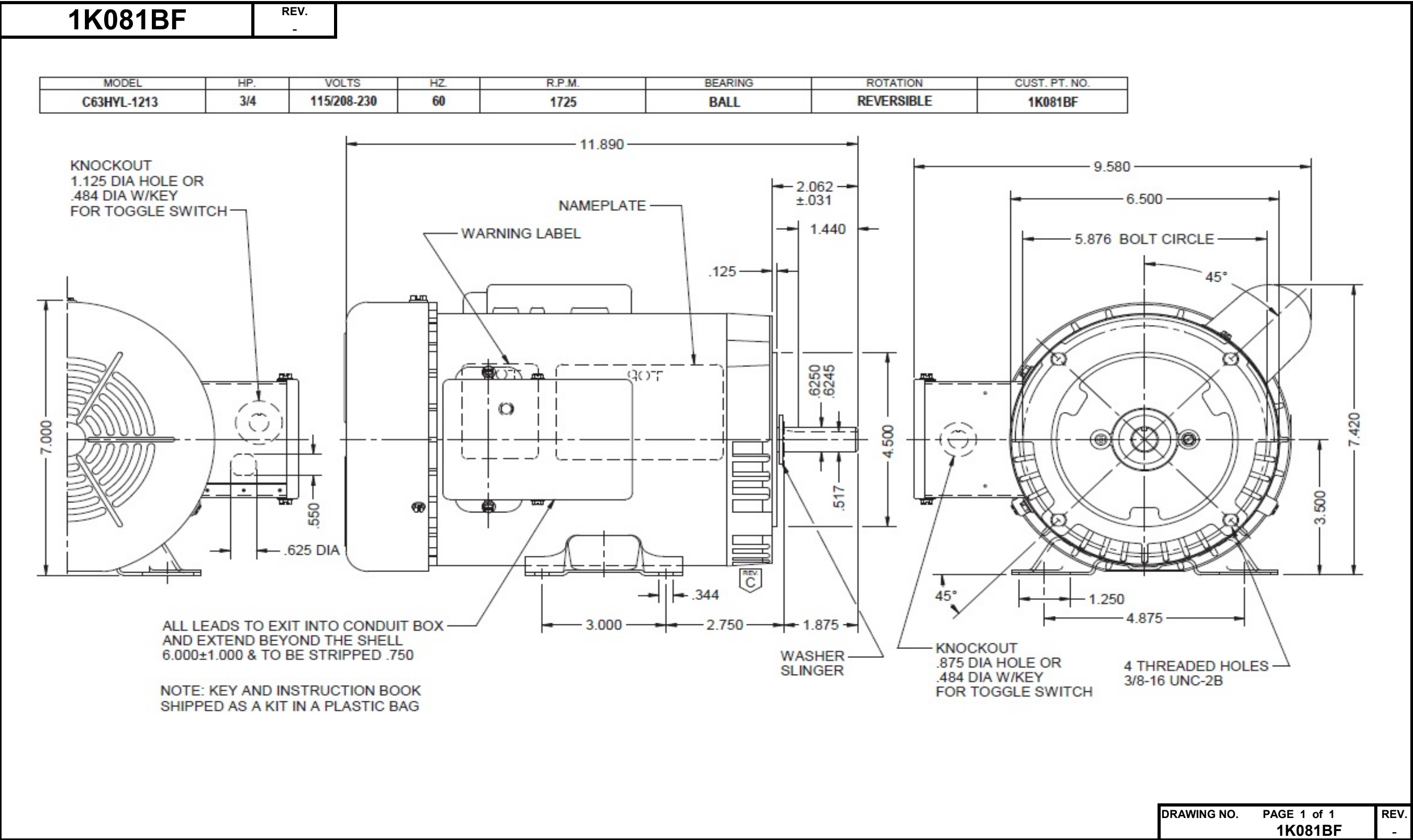


Dimensional Drawing



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

Performance Data



1K081BF

REV.
-

MOTOR PERFORMANCE

HP:	3/4						
Poles:	4						
Ambient (°C)	40						
Altitude (FASL):							
No. of Speeds:	1						
Volts:	115/ 208-230	115	208	230			
HZ:	60	60	60	60			
Service Factor:	1.15						
Efficiency:	@ Rated Load	66.8	67	66.2			
Power Factor:	@ Rated Load	65.7	65.6	73			
Amps:	@ No Load						
	@ Rated Load	11.1	5.5	5.56			
	@ Service Factor	11.9		5.9			
	@ Locked Rotor	56.4	25.6	28.8			
RPM:	@ Rated Load	1732	1717	1735			
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	93.4	74.9	93.6			
	Locked Rotor	140.1	101.3	126.4			
	Pull-Up	126.1	91.2	113.8			
	Rated Load	36.5	36.5	36.5			
	Service Factor	42		42			
Watts:	@ Rated Load	840	840	839			
KVA Code:							
Temperature Rise:	@ Rated Load	76.5	80.1	77.5			
	@ Service Factor	91.7		90.1			
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)	Cu					
	Run (Main)	Cu					
Capacitor(s):	Start (MFD / Volts)	450-540 MFD/ 165 V					
	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: Oz.Ft. / Lb.In. (Circle One)	Breakdown						
	Locked Rotor						
	Pull-Up						
	Rated Load						
	Service Factor						
Watts:	@ Rated Load						
Temperature Rise:	@ Rated Load						
	@ Service Factor						

DRAWING NO. PAGE 1 of 1
1K081BF

REV.
-

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

Performance Data

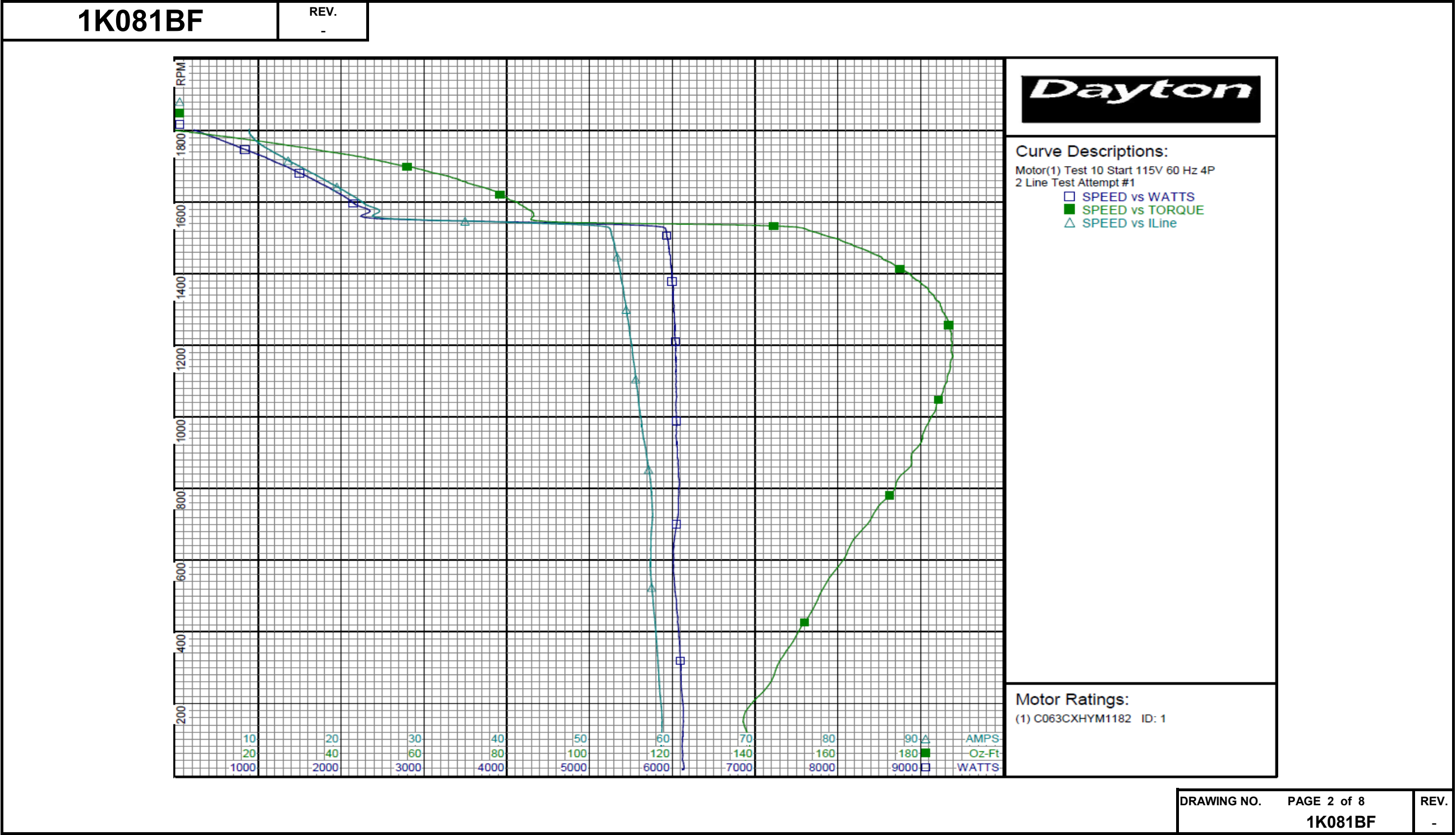


1K081BF		REV. -							
Dayton Manufacturing Company									
Motor Description				Test Conditions					
Model:		C063CXHYM1182		Test Type:		Start		Run Cap: 0	
Motor ID:		1		Test Number:		10		Start Cap: 0µfd	
Poles:		4		Poles:		4		Tested: 8/7/2012 12:34:48 PM	
Volts:		115/208-230		Volts:		115		Tested By: Sharp, Gerald	
Frequency:		60		Hz:		60		Gear Ratio: 1:1	
HP:		3/4		Rotation:				Bearing Friction: -0.71 Oz-Ft	
Speed:		1725		Special Cond:		2 Line Test		Windage Torque: -3.13 Oz-Ft	
Phase:		1		Speed Conn:					
Protector:		CEJ65CS		TestBoard:		Amps Performance		Fixture #3	
Special Points		Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
		115.0	58.78	6131	16	136.14	0.026	0.3	90.7
PUT OZ-FT		115.0	58.73	6126	15	133.79	0.023	0.3	90.7
		115.0	58.74	6121	42	137.73	0.069	0.8	90.6
		115.0	58.67	6131	191	138.59	0.315	3.8	90.9
		115.0	58.18	6091	346	147.54	0.608	7.5	91.0
		115.0	57.67	6049	489	155.14	0.903	11.1	91.2
		115.0	57.38	6016	616	162.13	1.189	14.7	91.2
		115.0	57.62	6071	731	168.70	1.468	18.0	91.6
		115.0	57.29	6074	835	175.05	1.740	21.4	92.2
		115.0	56.62	6054	931	180.24	1.997	24.6	93.0
		115.0	56.05	6042	1019	183.64	2.227	27.5	93.7
		115.0	55.62	6048	1098	186.41	2.437	30.1	94.6
		115.0	55.22	6039	1172	187.71	2.620	32.4	95.1
		115.0	54.83	6031	1239	187.25	2.762	34.2	95.7
		115.0	54.45	6019	1300	185.14	2.865	35.5	96.1
		115.0	54.10	6015	1356	181.93	2.936	36.4	96.7
		115.0	53.71	5991	1406	176.48	2.953	36.8	97.0
		115.0	53.32	5975	1451	169.56	2.929	36.6	97.5
		115.0	52.88	5947	1493	160.75	2.857	35.8	97.8
		115.0	52.20	5882	1531	149.79	2.729	34.6	98.0
		115.0	28.30	2706	1552	85.83	1.586	43.7	83.1
		115.0	23.58	2233	1587	84.08	1.589	53.1	82.3
		115.0	21.11	1994	1621	78.38	1.512	56.6	82.2
		115.0	18.88	1763	1650	71.44	1.404	59.4	81.2
		115.0	16.78	1536	1678	63.89	1.276	62.0	79.6
		115.0	14.86	1314	1702	54.91	1.112	63.2	76.9
		115.0	13.02	1090	1725	45.58	0.936	64.1	72.8
		115.0	11.39	855	1745	34.43	0.715	62.4	65.3
		115.0	10.03	636	1765	23.26	0.489	57.3	55.2
		115.0	9.15	410	1785	10.48	0.223	40.5	39.0
		115.0	8.89	219	1802	0.00	0.000	0.0	21.5

DRAWING NO.	PAGE 1 of 8	REV.
1K081BF		-

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

Performance Data



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

Performance Data



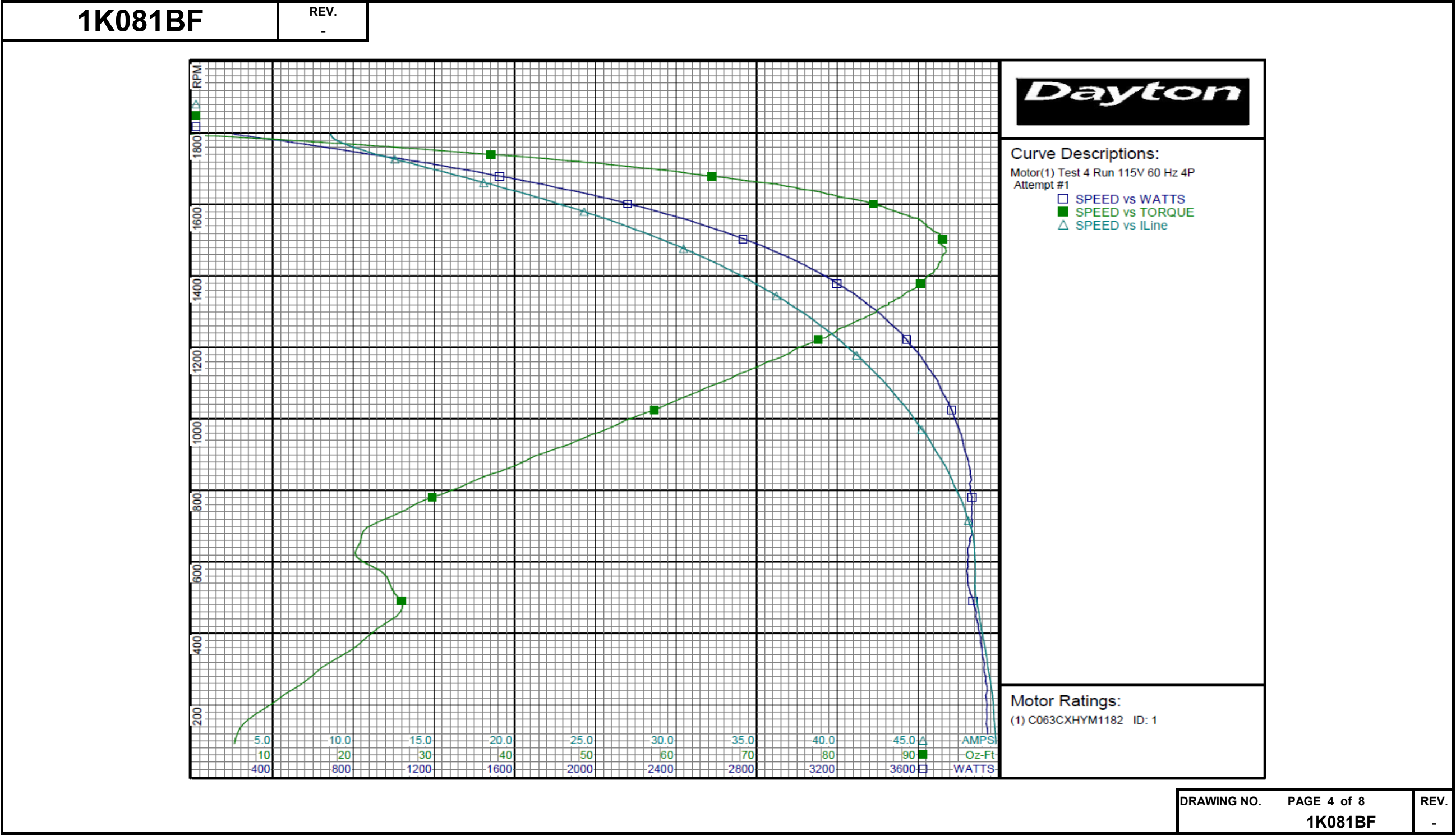
1K081BF		REV. -						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model:	C063CXHYM1182			Test Type:	Run		Run Cap:	0
Motor ID:	1			Test Number:	4		Start Cap:	0µfd
Poles:	4			Poles:	4			
Volts:	115/208-230			Volts:	115		Tested:	8/7/2012 1:07:36 PM
Frequency:	60			Hz:	60		Tested By:	Sharp, Gerald
HP:	3/4			Rotation:			Gear Ratio:	1:1
Speed:	1725			Special Cond:			Bearing Friction:	-0.76 Oz-Ft
Phase:	1			Speed Conn:			Windage Torque:	-3.12 Oz-Ft
Protector:	CEJ65CS			TestBoard:	Amps Performance		Fixture #3	
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	8.60	206	1797	0.00	0.000	0.0	20.8
	115.0	9.04	451	1778	13.38	0.283	46.9	43.4
	115.0	10.16	686	1757	26.45	0.553	60.2	58.7
0.75 HP	115.0	11.32	872	1741	36.18	0.750	64.1	67.0
36.6 OZ-FT	115.0	11.37	881	1740	36.60	0.758	64.2	67.4
	115.0	11.60	916	1738	38.33	0.793	64.6	68.6
42 OZ-FT	115.0	12.16	992	1731	42.00	0.866	65.1	70.9
1725 RPM	115.0	12.70	1063	1725	45.25	0.929	65.2	72.8
	115.0	13.26	1135	1718	48.63	0.995	65.4	74.4
	115.0	15.01	1349	1697	57.81	1.168	64.6	78.2
	115.0	16.99	1573	1674	66.20	1.320	62.6	80.5
	115.0	19.17	1805	1648	74.84	1.468	60.7	81.8
	115.0	21.25	2018	1622	80.18	1.548	57.2	82.6
	115.0	23.40	2228	1593	85.80	1.627	54.5	82.8
	115.0	25.61	2434	1560	90.00	1.672	51.2	82.6
	115.0	27.72	2623	1526	91.87	1.669	47.5	82.3
	115.0	29.86	2807	1488	92.81	1.644	43.7	81.7
BDT OZ-FT	115.0	30.87	2887	1469	93.51	1.635	42.3	81.3
	115.0	31.89	2974	1448	92.98	1.603	40.2	81.1
	115.0	33.91	3126	1403	91.42	1.527	36.4	80.2
	115.0	35.84	3268	1355	88.73	1.431	32.7	79.3
	115.0	37.67	3394	1303	84.93	1.317	29.0	78.3
	115.0	39.41	3503	1246	79.88	1.185	25.2	77.3
	115.0	41.03	3600	1186	74.21	1.047	21.7	76.3
	115.0	42.55	3682	1119	67.25	0.896	18.1	75.2
	115.0	43.95	3750	1047	59.60	0.743	14.8	74.2
	115.0	45.24	3804	971	51.41	0.594	11.7	73.1
	115.0	46.40	3846	889	41.89	0.443	8.6	72.1
	115.0	47.39	3858	800	32.26	0.307	5.9	70.8
	115.0	48.21	3870	705	22.45	0.188	3.6	69.8
	115.0	48.54	3848	606	20.82	0.150	2.9	68.9
	115.0	48.59	3869	501	25.54	0.152	2.9	69.2
	115.0	49.02	3911	388	21.60	0.100	1.9	69.4
	115.0	49.50	3935	265	13.97	0.044	0.8	69.1
	115.0	49.76	3945	133	5.90	0.009	0.2	68.9

DRAWING NO.	PAGE 3 of 8	REV.
1K081BF		-

DRAWING NO.	PAGE 3 of 8	REV.
	1K081BF	-

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

Performance Data



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

Performance Data



1K081BF

REV.
-

Dayton Manufacturing Company

Motor Description				Test Conditions				
Model:	C063CXHYM1182			Test Type:	Start		Run Cap:	0
Motor ID:	1			Test Number:	15		Start Cap:	0µfd
Poles:	4			Poles:	4			
Volts:	115/208-230			Volts:	230		Tested:	8/7/2012 10:13:08 AM
Frequency:	60			Hz:	60		Tested By:	Sharp, Gerald
HP:	3/4			Rotation:			Gear Ratio:	1:1
Speed:	1725			Special Cond:	2 Line Test		Bearing Friction:	-0.71 Oz-Ft
Phase:	1			Speed Conn:			Windage Torque:	-2.89 Oz-Ft
Protector:	CEJ65CS			TestBoard:	Amps Performance		Fixture #3	

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	29.60	5948	14	122.01	0.020	0.3	87.4
PUT OZ-FT	230.0	29.55	5943	18	118.71	0.025	0.3	87.4
	230.0	29.54	5932	41	122.03	0.059	0.7	87.3
	230.0	29.45	5923	190	125.10	0.283	3.6	87.4
	230.0	29.13	5882	346	131.61	0.542	6.9	87.8
	230.0	28.86	5870	486	137.32	0.794	10.1	88.4
	230.0	28.67	5829	614	142.70	1.042	13.3	88.4
	230.0	28.69	5867	729	149.36	1.297	16.5	88.9
	230.0	28.62	5910	835	157.23	1.564	19.7	89.8
	230.0	28.42	5922	931	162.58	1.802	22.7	90.6
	230.0	28.17	5926	1019	167.43	2.032	25.6	91.4
	230.0	27.90	5914	1099	170.92	2.237	28.2	92.2
	230.0	27.62	5899	1174	172.75	2.413	30.5	92.8
	230.0	27.34	5881	1240	172.90	2.552	32.4	93.5
	230.0	27.06	5859	1301	171.84	2.662	33.9	94.1
	230.0	26.77	5839	1356	168.69	2.723	34.8	94.8
	230.0	26.48	5804	1407	164.06	2.748	35.3	95.3
	230.0	26.18	5777	1453	157.29	2.720	35.1	95.9
	230.0	25.89	5736	1494	150.37	2.675	34.8	96.3
	230.0	25.59	5701	1531	141.68	2.582	33.8	96.9
	230.0	18.28	3582	1561	86.23	1.602	33.4	85.2
	230.0	11.76	2226	1587	86.11	1.627	54.5	82.3
	230.0	10.46	1963	1621	80.15	1.547	58.8	81.6
	230.0	9.37	1737	1651	73.34	1.441	61.9	80.6
	230.0	8.32	1508	1678	65.03	1.299	64.2	78.8
	230.0	7.35	1287	1702	55.80	1.130	65.5	76.1
	230.0	6.43	1057	1724	45.92	0.943	66.5	71.5
	230.0	5.67	839	1745	35.35	0.734	65.3	64.4
	230.0	5.02	621	1764	23.78	0.499	60.0	53.8
	230.0	4.54	389	1786	10.67	0.227	43.5	37.3
	230.0	4.38	193	1803	0.00	0.000	0.0	19.2

DRAWING NO.

PAGE 5 of 8

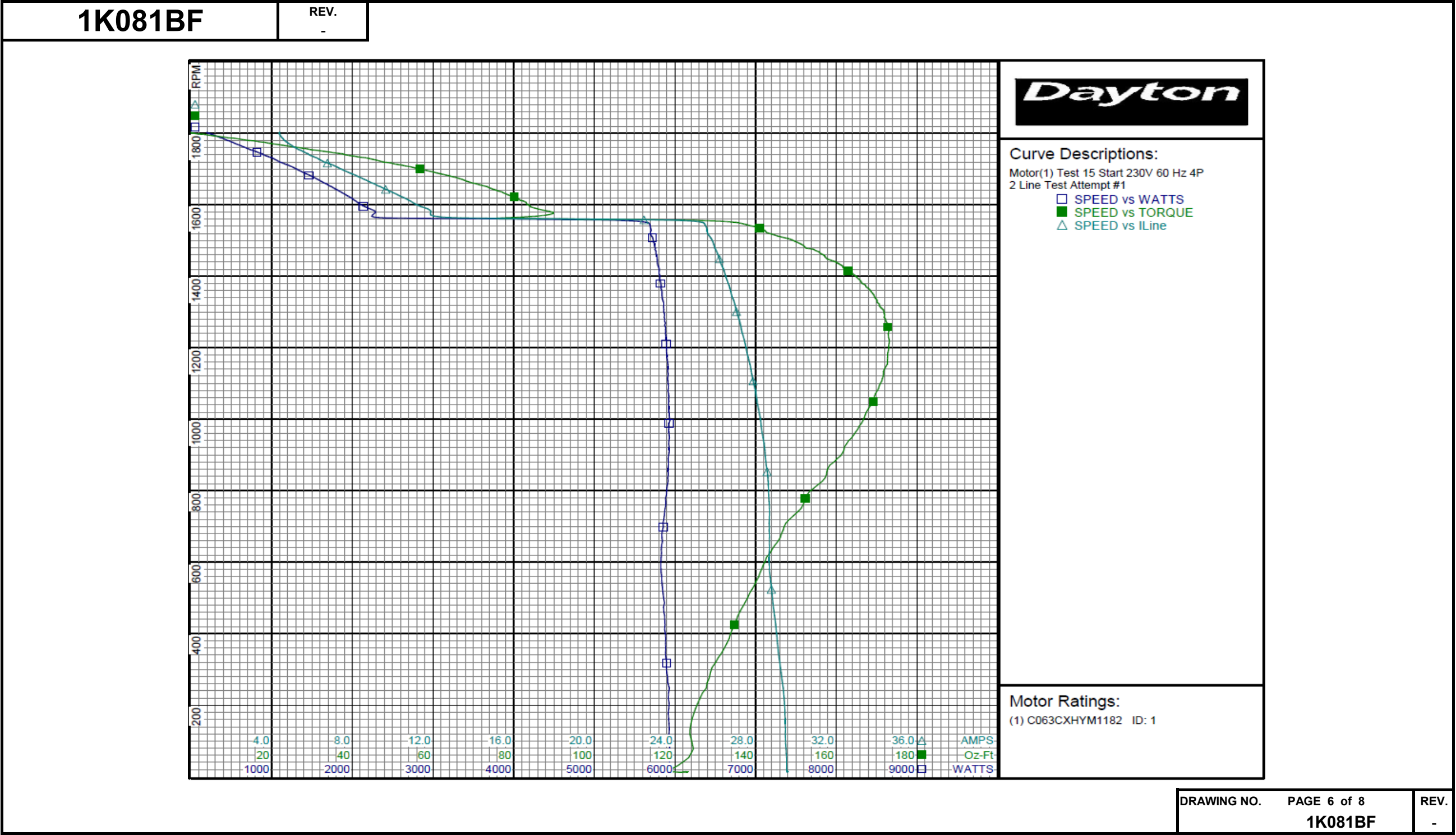
REV.

1K081BF

DRAWING NO.	PAGE 5 of 8	REV.
1K081BF		-

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

Performance Data



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

Performance Data



1K081BF

REV.

-

Dayton Manufacturing Company

Motor Description

Model: C063CXHYM1182
Motor ID: 1
Poles: 4
Volts: 115/208-230
Frequency: 60
HP: 3/4
Speed: 1725
Phase: 1
Protector: CEJ65CS

Test Conditions

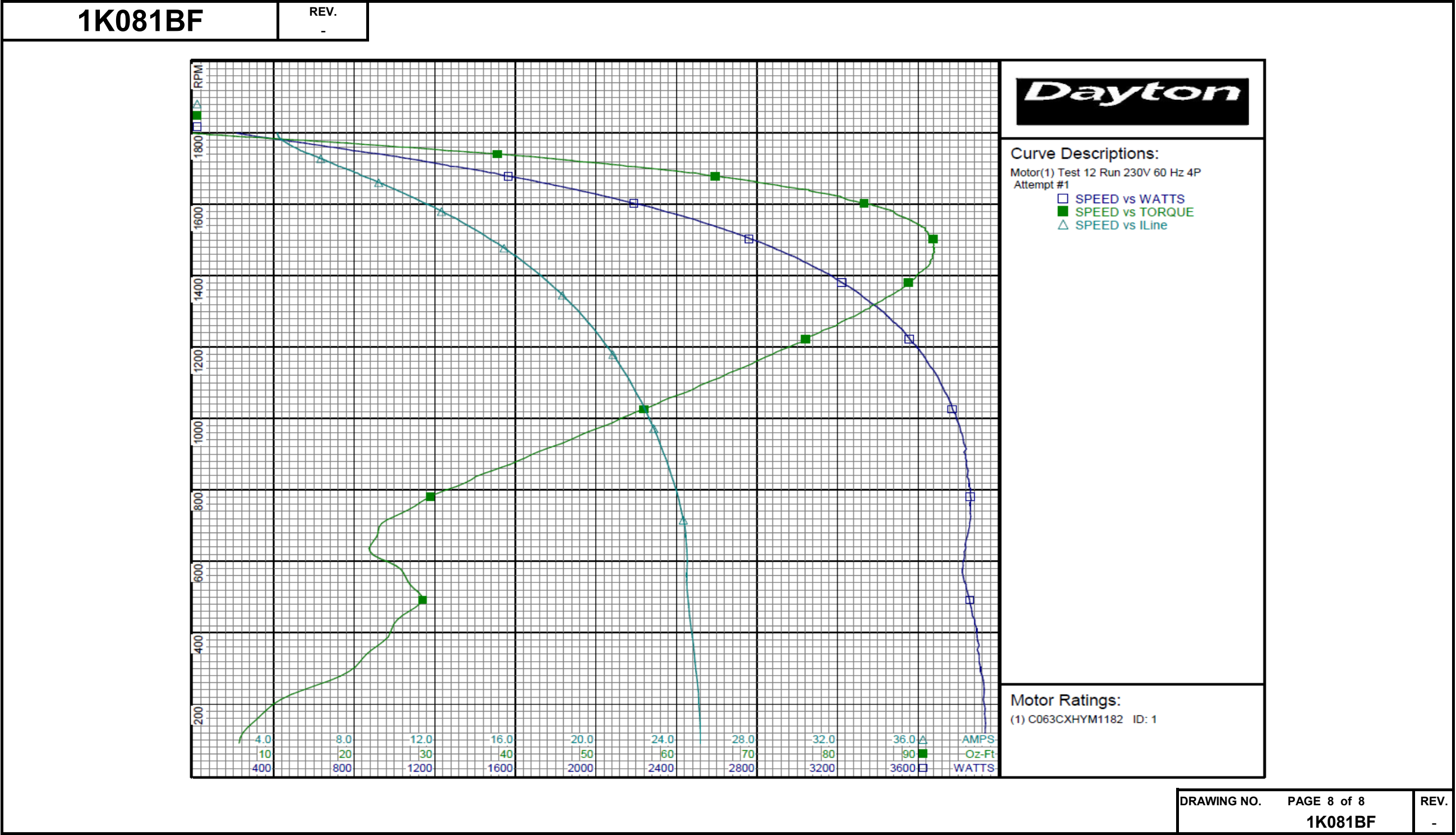
Test Type: Run
Test Number: 12
Poles: 4
Volts: 230
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #3
Run Cap: 0
Start Cap: 0µfd
Tested: 8/7/2012 8:24:08 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.73 Oz-Ft
Windage Torque: -3.16 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	4.18	218	1799	0.00	0.000	0.0	22.6
	230.0	4.44	461	1779	13.84	0.293	47.4	45.1
	230.0	5.04	700	1759	26.83	0.562	59.9	60.3
0.75 HP	230.0	5.63	884	1743	36.14	0.750	63.3	68.3
36.6 OZ-FT	230.0	5.68	898	1743	36.60	0.759	63.1	68.8
	230.0	5.86	948	1739	38.79	0.803	63.2	70.3
42 OZ-FT	230.0	6.12	1012	1733	42.00	0.867	63.9	71.9
1725 RPM	230.0	6.46	1099	1725	45.70	0.938	63.7	73.9
	230.0	6.70	1155	1719	47.96	0.982	63.4	75.0
	230.0	7.64	1385	1698	57.79	1.168	62.9	78.8
	230.0	8.68	1614	1674	66.58	1.327	61.3	80.9
	230.0	9.75	1838	1648	73.63	1.445	58.6	82.0
	230.0	10.79	2048	1622	80.35	1.551	56.5	82.5
	230.0	11.90	2261	1593	84.98	1.612	53.2	82.6
	230.0	13.00	2457	1562	88.38	1.644	49.9	82.2
	230.0	14.06	2650	1527	90.86	1.651	46.5	81.9
BDT OZ-FT	230.0	14.80	2782	1500	92.06	1.644	44.1	81.7
	230.0	15.14	2832	1490	91.91	1.630	42.9	81.3
	230.0	16.17	3002	1448	91.81	1.583	39.3	80.7
	230.0	17.18	3157	1404	89.99	1.504	35.6	79.9
	230.0	18.16	3293	1356	87.42	1.411	32.0	78.9
	230.0	19.08	3413	1304	83.41	1.295	28.3	77.8
	230.0	19.95	3525	1247	78.21	1.161	24.6	76.8
	230.0	20.77	3613	1186	72.37	1.021	21.1	75.6
	230.0	21.53	3694	1120	65.91	0.879	17.7	74.6
	230.0	22.24	3757	1049	58.23	0.727	14.4	73.5
	230.0	22.89	3809	972	50.14	0.580	11.4	72.4
	230.0	23.46	3835	889	41.20	0.436	8.5	71.1
	230.0	23.98	3862	801	31.54	0.301	5.8	70.0
	230.0	24.39	3856	706	23.39	0.197	3.8	68.7
	230.0	24.53	3829	607	23.21	0.168	3.3	67.9
	230.0	24.56	3851	502	28.35	0.170	3.3	68.2
	230.0	24.79	3893	387	24.21	0.112	2.1	68.3
	230.0	25.03	3924	266	16.97	0.054	1.0	68.2
	230.0	25.18	3934	133	6.69	0.011	0.2	67.9

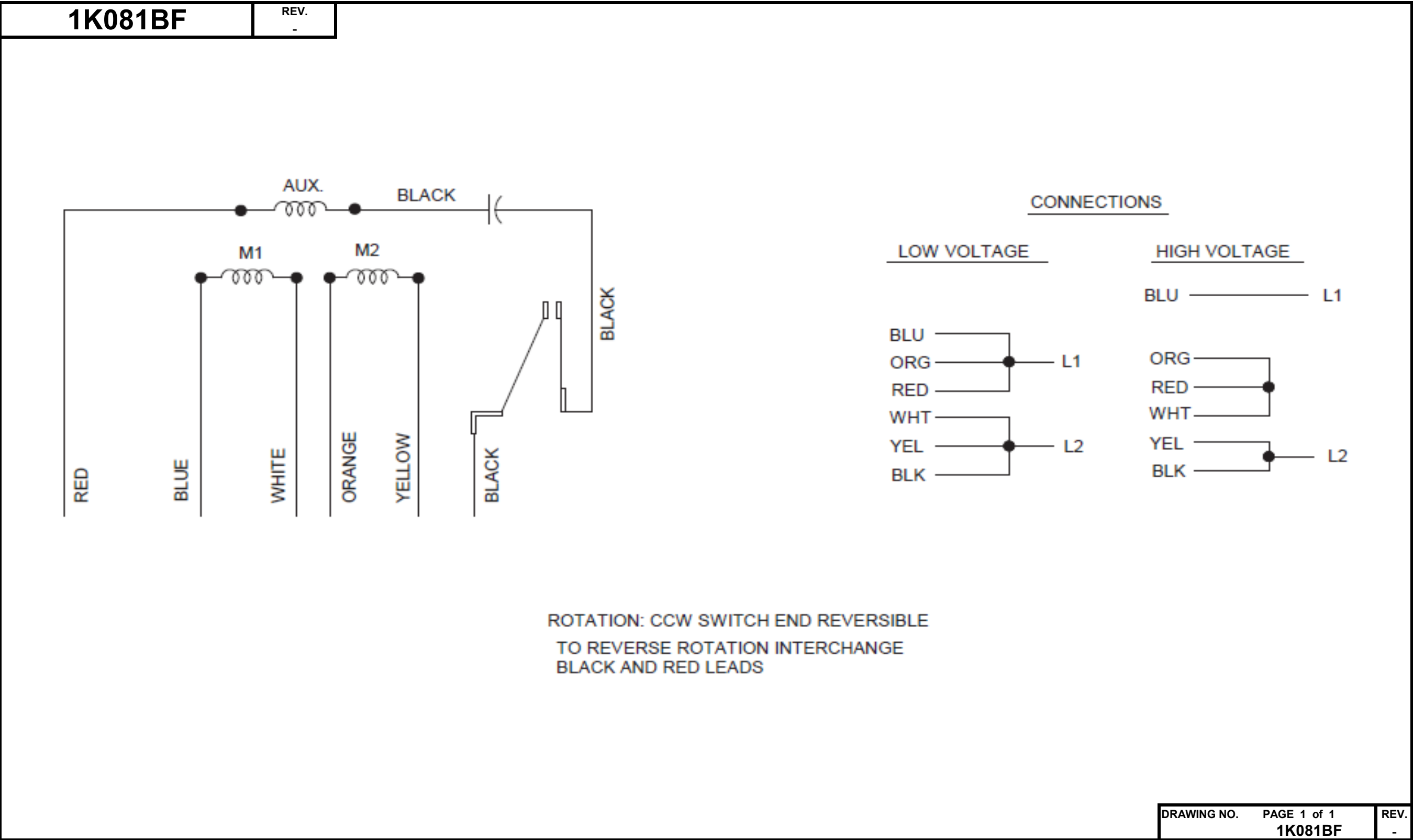
DRAWING NO. PAGE 7 of 8 REV.
1K081BF -

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

Performance Data



Wiring Diagram

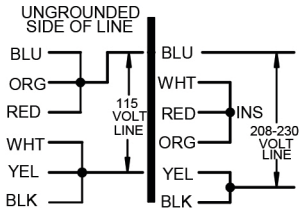


Dayton[®]Part No **1K081BF****INDUSTRIAL
MOTOR****HP:** 3/4**PH:** 1**VOLTS:** 115/208-230**HZ:** 60**AMPS:** 11.0/5.4-5.5**FR:** 56 C**RPM:** 1725**INS CL:** B**DUTY:** CONT**AMB:** 40 °C**SF:** 1.15**SFA:** 11.8/5.4-5.9**KVA CODE:** L**ENCL:** TEFC**MTR REF:** C63HYL-1213**THERMALLY PROTECTED:** NONEPROT. CODE: ☐ ☐ MFG. NO. ☐ ☐**S.F. AT 208 VOLTS IS 1.0**

258501



E47479

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