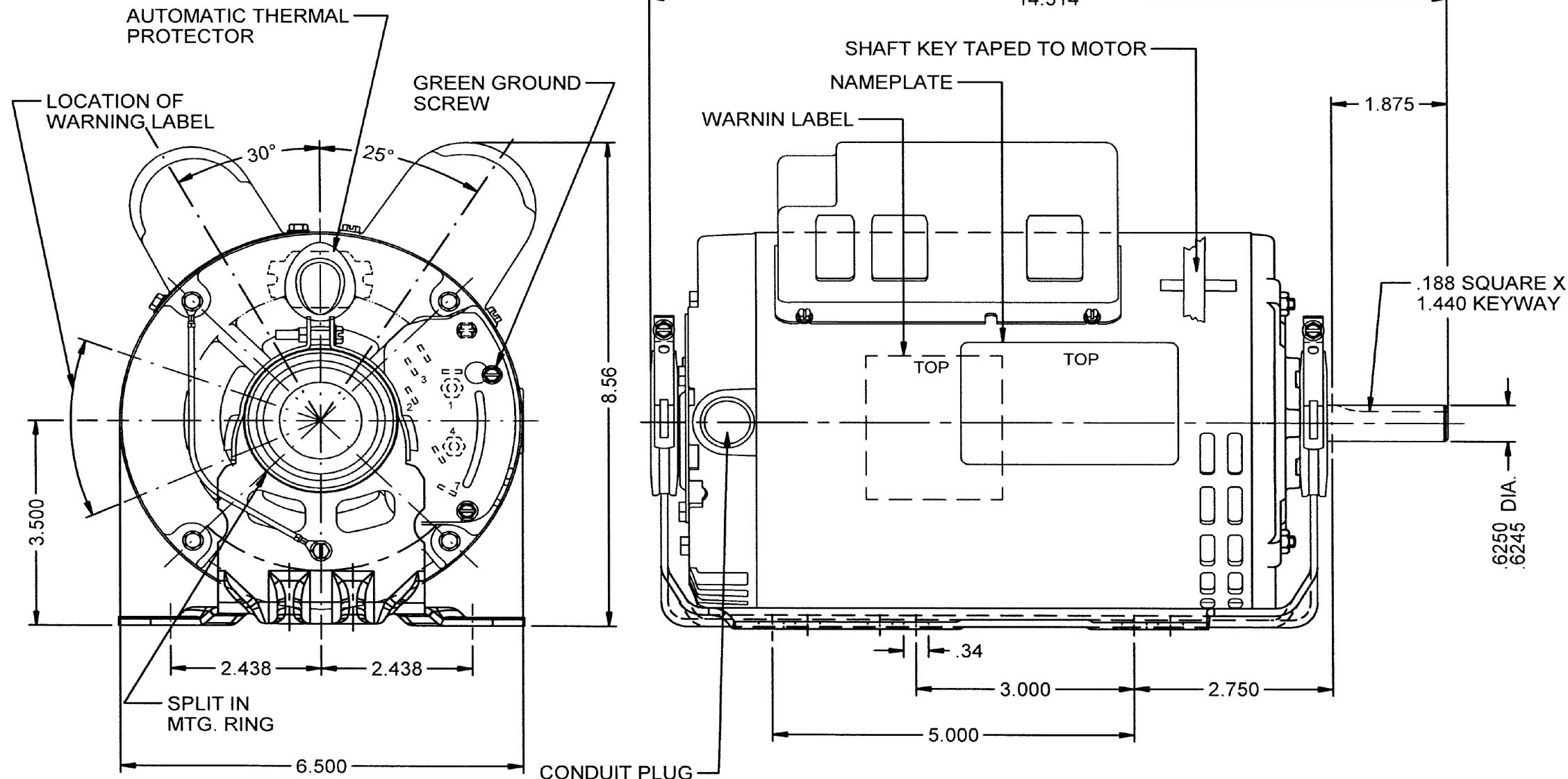


Dimensional Drawing

Dayton®

30PT84

REV.
-



MODEL	HP.	VOLTS	HZ.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
T63CXCJT-2051	2	115/230	60	3450	BALL	CW/CCW	30PT84

DRAWING NO. PAGE 1 of 1
30PT84 REV. -

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

Performance Data

Dayton®

30PT84

REV.
-

MOTOR PERFORMANCE

HP:	2						
Poles:	2						
No. of Speeds:	1						
Volts:	115/230	115	230				
Hz:	60	60	60				
Service Factor:	1.15						
Efficiency:	@ Rated Load	83.30	83.80				
Power Factor:	@ Rated Load	98.70	98.30				
Amps:	@ No Load						
	@ Rated Load	15.79	7.87				
	@ Service Factor	18.42	9.18				
	@ Locked Rotor	84.24	44.26				
RPM:	@ Rated Load	3475	3473				
Ambient (°C):							
Altitude (FASL):							
Torques:	Breakdown	97.1	99.9				
	Locked Rotor	102.02	101.40				
	Pull-Up	99.66	97.93				
	Rated Load	48.34	48.37				
	Service Factor	3.445	3.472				
Watts:	Rated Load	1792	1781				
KVA Code:							
Temperature Rise:	@ Rated Load	14.8	15.3				
	@ Service Factor	19.7	20.1				
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)	CU					
	Run (Main)	CU					
Capacitor(s):	Start (MFD / Volts)						
	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:	Bend Down						
	Locked Rotor						
	Pull-Up						
	Rated Load						
	Service Factor						
Watts:	@ Rated Load						
Temperature Rise:	@ Rated Load						
	@ Service Factor						

DRAWING NO. PAGE 1 of 1 REV.
30PT84 -

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

Performance Data

Dayton®

30PT84

REV.
-

Dayton Manufacturing Company

Motor Description

Model: T063CXCJT205101
 Motor ID: 5
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector:

Test Conditions

Test Type: Start
 Test Number: 4
 Poles: 2
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #3
 Run Cap: 0
 Start Cap: 0μfd
 Environment: 22.8 Deg C 20 % RH 1000 hPa
 Tested: 3/8/2014 9:57:10 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.14 Oz-Ft
 Windage Torque: -1.08 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	83.61	8041	9	104.66	0.011	0.1	83.6
	115.0	83.61	8040	74	103.81	0.091	0.8	83.6
	115.0	83.33	8012	281	101.12	0.339	3.2	83.6
	115.0	83.24	8023	367	102.33	0.448	4.2	83.8
	115.0	83.19	8059	683	108.11	0.879	8.1	84.2
	115.0	82.87	8093	966	114.47	1.316	12.1	84.9
	115.0	82.62	8129	1224	122.05	1.778	16.3	85.6
	115.0	82.55	8200	1451	129.41	2.236	20.3	86.4
	115.0	82.49	8272	1657	135.73	2.677	24.1	87.2
	115.0	82.38	8343	1850	141.66	3.119	27.9	88.1
	115.0	82.40	8429	2026	147.12	3.549	31.4	89.0
	115.0	82.48	8521	2188	151.97	3.958	34.6	89.8
	115.0	82.61	8625	2336	155.44	4.324	37.4	90.8
	115.0	82.85	8724	2468	157.46	4.625	39.6	91.6
	115.0	83.16	8829	2590	158.62	4.890	41.3	92.3
	115.0	82.91	8877	2701	155.75	5.008	42.1	93.1
	115.0	82.42	8914	2802	151.98	5.070	42.4	94.0
	115.0	82.66	9017	2894	147.72	5.090	42.1	94.9
	115.0	83.00	9113	2979	141.70	5.025	41.1	95.5
	115.0	83.34	9226	3055	134.10	4.878	39.4	96.3
	115.0	75.45	8217	3125	115.69	4.303	39.1	94.7
	115.0	40.87	4188	3181	91.57	3.467	61.8	89.1
	115.0	36.02	3731	3243	86.17	3.326	66.5	90.1
	115.0	31.97	3375	3299	81.24	3.191	70.5	91.8
	115.0	27.94	3003	3349	75.91	3.027	75.2	93.5
	115.0	23.81	2596	3397	67.27	2.721	78.2	94.8
	115.0	19.64	2187	3440	57.96	2.374	81.0	96.8
	115.0	15.37	1731	3482	46.74	1.938	83.5	97.9
	115.0	10.89	1237	3522	32.79	1.375	82.9	98.7
	115.0	6.34	721	3562	17.41	0.738	76.4	98.9
	115.0	1.87	164	3602	0.00	0.000	0.0	76.0

DRAWING NO. PAGE 1 of 8
30PT84

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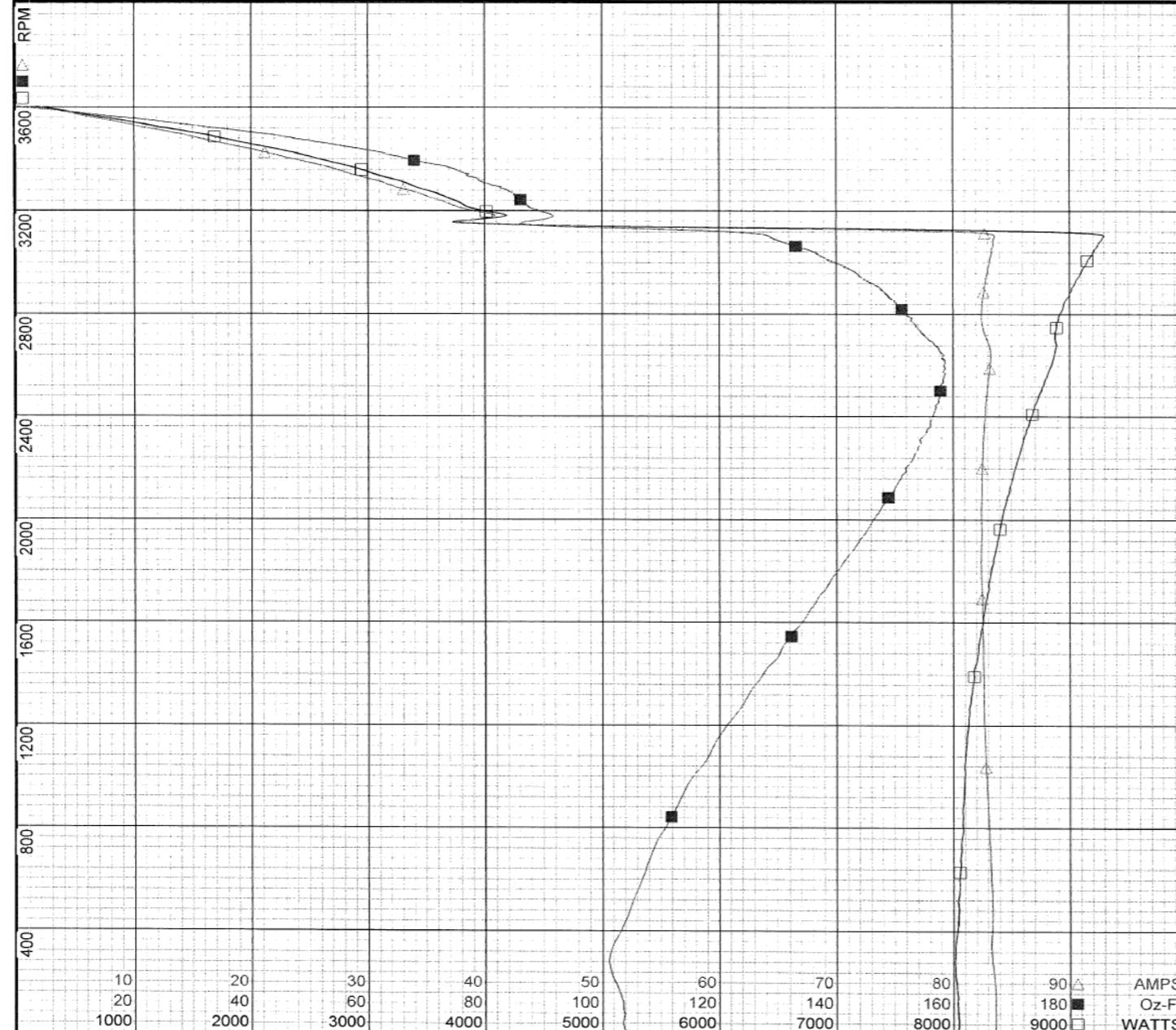
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data

Dayton[®]

30PT84

REV.
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Dayton

Curve Descriptions:

Motor(1) Test 4 Start 115V 60 Hz 2P

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

Motor Ratings:

(1) T063CXCJT205101 ID: 5

DRAWING NO. PAGE 2 of 8
30PT84 REV. -

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

Performance Data

Dayton®

30PT84

REV.
-

Dayton Manufacturing Company

Motor Description

Model: T063CXCJT205101
 Motor ID: 5
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector: -----
 Test Type: Run
 Test Number: 7
 Poles: 2
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: Provide cap volts, IM & Iaux
 Speed Conn: Windage Torque: -0.91 Oz-Ft
 TestBoard: Amtps Performance Fixture #3
 Run Cap: 0
 Start Cap: 0μfd
 Environment: 22.8 Deg C 20 % RH 1000 hPa
 Tested: 3/8/2014 9:55:02 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.11 Oz-Ft

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	PF(%)	Cap
	115.0	191.6	228.4	1.41	3.52	4.258	156	3585	0.00	0.000	95.8	49.4
	115.0	185.4	214.4	6.57	3.96	4.005	761	3547	19.22	0.811	100.7	49.5
	115.0	175.4	199.5	11.86	9.26	3.723	1360	3508	36.86	1.539	99.8	49.5
2 HP	115.0	168.6	189.5	15.66	13.24	3.546	1780	3475	48.35	2.000	98.8	49.6
48.7 OZ-FT	115.0	168.4	189.2	15.78	13.37	3.540	1793	3474	48.70	2.014	98.8	49.6
	115.0	167.3	187.4	16.46	14.08	3.509	1867	3467	50.45	2.082	98.6	49.7
56 OZ-FT	115.0	163.5	182.3	18.44	16.18	3.417	2079	3450	56.00	2.300	98.0	49.7
3450 RPM	115.0	163.5	182.2	18.45	16.19	3.417	2079	3450	56.02	2.301	98.0	49.7
2.3 HP	115.0	163.5	182.3	18.44	16.18	3.417	2079	3450	56.00	2.300	98.0	49.7
	115.0	158.9	175.9	21.02	18.91	3.302	2349	3426	62.46	2.548	97.2	49.8
	115.0	150.9	165.1	25.57	23.51	3.110	2793	3382	72.12	2.904	95.0	50.0
	115.0	143.0	155.3	29.61	27.76	2.935	3182	3337	80.81	3.210	93.4	50.1
	115.0	134.5	145.4	33.54	31.90	2.760	3543	3289	85.45	3.345	91.9	50.4
	115.0	126.2	136.3	37.55	36.13	2.595	3890	3235	90.06	3.469	90.1	50.5
	115.0	118.2	128.4	41.35	40.15	2.458	4199	3178	92.41	3.496	88.3	50.8
	115.0	110.5	121.3	44.92	43.92	2.333	4462	3118	94.15	3.495	86.4	51.0
BDT OZ-FT	115.0	105.4	116.7	47.31	46.52	2.250	4647	3072	94.82	3.467	85.4	51.1
	115.0	103.3	114.9	48.35	47.62	2.217	4720	3052	94.37	3.428	84.9	51.2
	115.0	96.0	109.3	51.65	51.11	2.111	4925	2980	93.53	3.318	82.9	51.2
	115.0	88.7	104.4	54.81	54.44	2.006	5105	2902	91.59	3.164	81.0	51.0
	115.0	82.3	100.6	57.76	57.57	1.947	5270	2818	88.85	2.980	79.3	51.3
	115.0	75.4	97.7	60.61	60.57	1.888	5388	2725	85.04	2.759	77.3	51.3
	115.0	69.0	95.5	63.24	63.37	1.844	5489	2623	80.73	2.521	75.5	51.2
	115.0	62.7	94.2	65.74	66.02	1.814	5566	2512	75.63	2.261	73.6	51.1
	115.0	56.8	93.6	67.95	68.37	1.802	5623	2393	70.78	2.016	72.0	51.1
	115.0	51.3	93.8	70.04	70.60	1.806	5667	2262	65.13	1.753	70.4	51.1
	115.0	46.5	94.7	71.80	72.48	1.827	5688	2128	59.42	1.506	68.9	51.2
	115.0	41.3	96.2	73.42	74.22	1.854	5700	1980	52.86	1.246	67.5	51.1
	115.0	36.6	97.7	74.83	75.74	1.884	5700	1828	46.52	1.012	66.2	51.2
	115.0	32.2	99.6	76.16	77.17	1.920	5705	1655	39.81	0.784	65.1	51.1
	115.0	27.9	101.7	77.22	78.33	1.956	5681	1481	33.37	0.588	64.0	51.0
	115.0	23.6	103.7	78.13	79.34	1.987	5659	1288	26.90	0.412	63.0	50.8
	115.0	18.8	106.8	78.83	80.14	2.034	5646	1073	22.17	0.283	62.3	50.5
	115.0	15.7	110.2	79.46	80.86	2.099	5651	845	16.09	0.162	61.8	50.5
	115.0	12.7	112.7	79.93	81.39	2.139	5642	603	9.55	0.069	61.4	50.3
	115.0	10.2	115.4	80.20	81.74	2.189	5635	348	5.82	0.024	61.1	50.3

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30PT84

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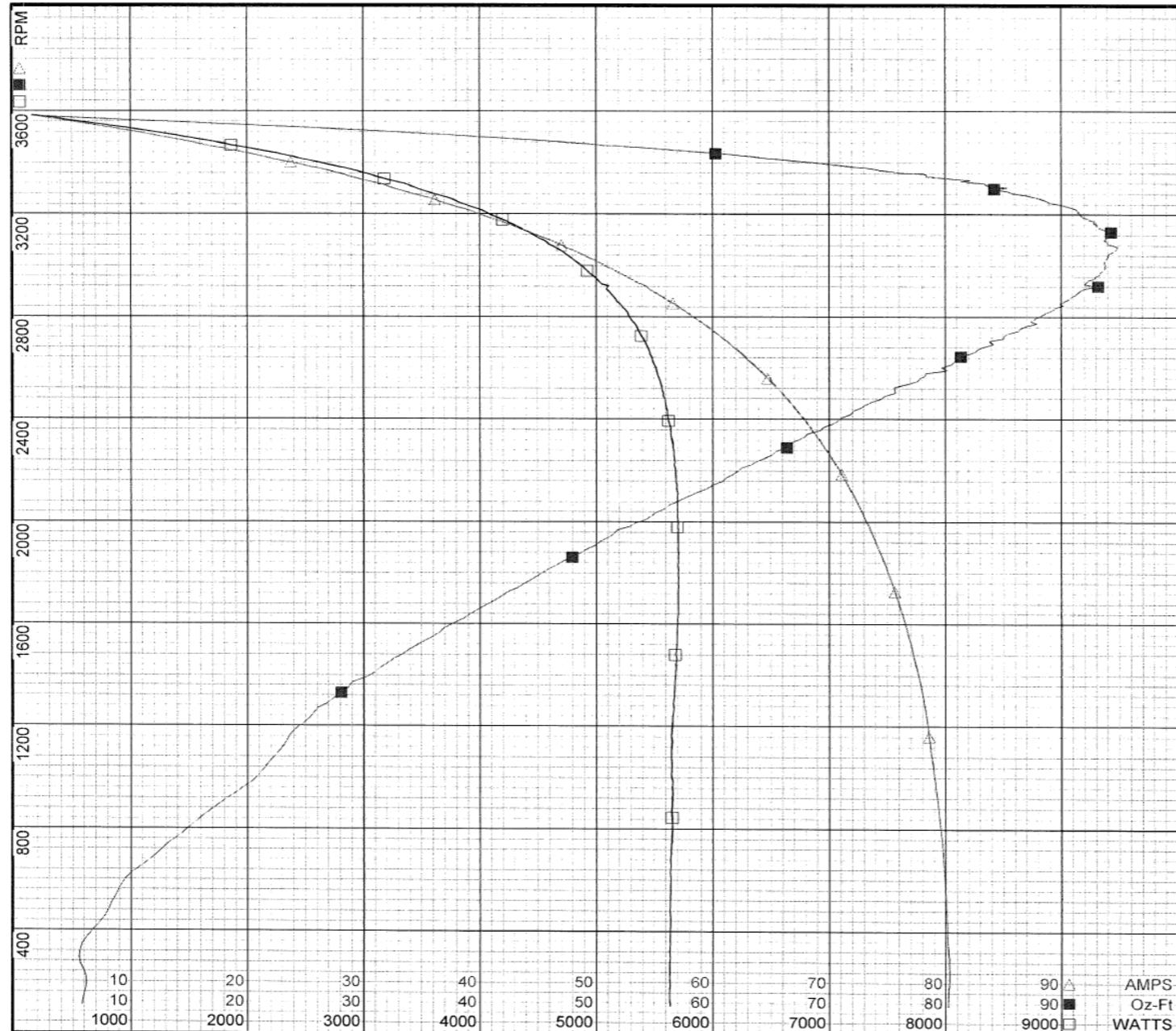
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data

Dayton®

30PT84

REV.
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DRAWING NO. PAGE 4 of 8
30PT84 REV. -

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

30PT84

REV.
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Dayton Manufacturing Company

Motor Description

Model: T063CXCJT205101
Motor ID: 5
Poles: 2
Volts: 115/230
Frequency: 60
HP: 2
Speed: 3450
Phase: 1
Protector:

Test Conditions

Test Type: Start
Test Number: 6
Poles: 2
Volts: 230
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #3
Run Cap: 0
Start Cap: 0μfd
Environment: 22.6 Deg C 20 % RH 999 hPa
Tested: 3/8/2014 8:44:37 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.11 Oz-Ft
Windage Torque: -1.10 Oz-Ft

Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	230.0	43.99	8026	9	105.20	0.011	0.1	79.3
	230.0	43.88	8021	74	101.55	0.090	0.8	79.5
	230.0	43.82	8018	337	99.86	0.400	3.7	79.6
	230.0	43.79	8023	366	99.92	0.436	4.1	79.7
	230.0	43.69	8057	680	106.22	0.860	8.0	80.2
	230.0	43.51	8092	965	112.88	1.297	12.0	80.9
	230.0	43.35	8137	1219	120.97	1.756	16.1	81.6
	230.0	43.27	8205	1450	128.17	2.212	20.1	82.5
	230.0	43.15	8276	1657	134.36	2.650	23.9	83.4
	230.0	43.06	8358	1849	140.49	3.092	27.6	84.4
	230.0	42.97	8449	2026	145.99	3.520	31.1	85.5
	230.0	42.90	8536	2184	150.50	3.913	34.2	86.5
	230.0	42.85	8630	2336	154.30	4.290	37.1	87.6
	230.0	42.85	8732	2468	156.65	4.602	39.3	88.6
	230.0	42.84	8813	2590	157.76	4.865	41.2	89.4
	230.0	42.89	8913	2702	157.06	5.052	42.3	90.4
	230.0	42.97	9021	2804	155.28	5.183	42.9	91.3
	230.0	43.07	9121	2896	150.96	5.205	42.6	92.1
	230.0	43.18	9214	2979	144.83	5.137	41.6	92.8
	230.0	43.32	9336	3055	137.50	5.001	40.0	93.7
	230.0	35.21	7394	3122	114.69	4.263	43.0	91.3
	230.0	20.88	4264	3180	95.06	3.599	63.0	88.8
	230.0	18.37	3792	3242	90.62	3.498	68.8	89.8
	230.0	16.27	3428	3298	85.06	3.340	72.7	91.6
	230.0	14.17	3039	3350	76.89	3.066	75.3	93.3
	230.0	12.10	2634	3396	69.15	2.796	79.2	94.7
	230.0	9.92	2199	3440	58.83	2.410	81.7	96.4
	230.0	7.77	1744	3482	46.90	1.944	83.2	97.6
	230.0	5.52	1251	3522	33.45	1.402	83.6	98.5
	230.0	3.20	726	3562	17.70	0.751	77.2	98.7
	230.0	0.88	154	3601	0.00	0.000	0.0	76.2

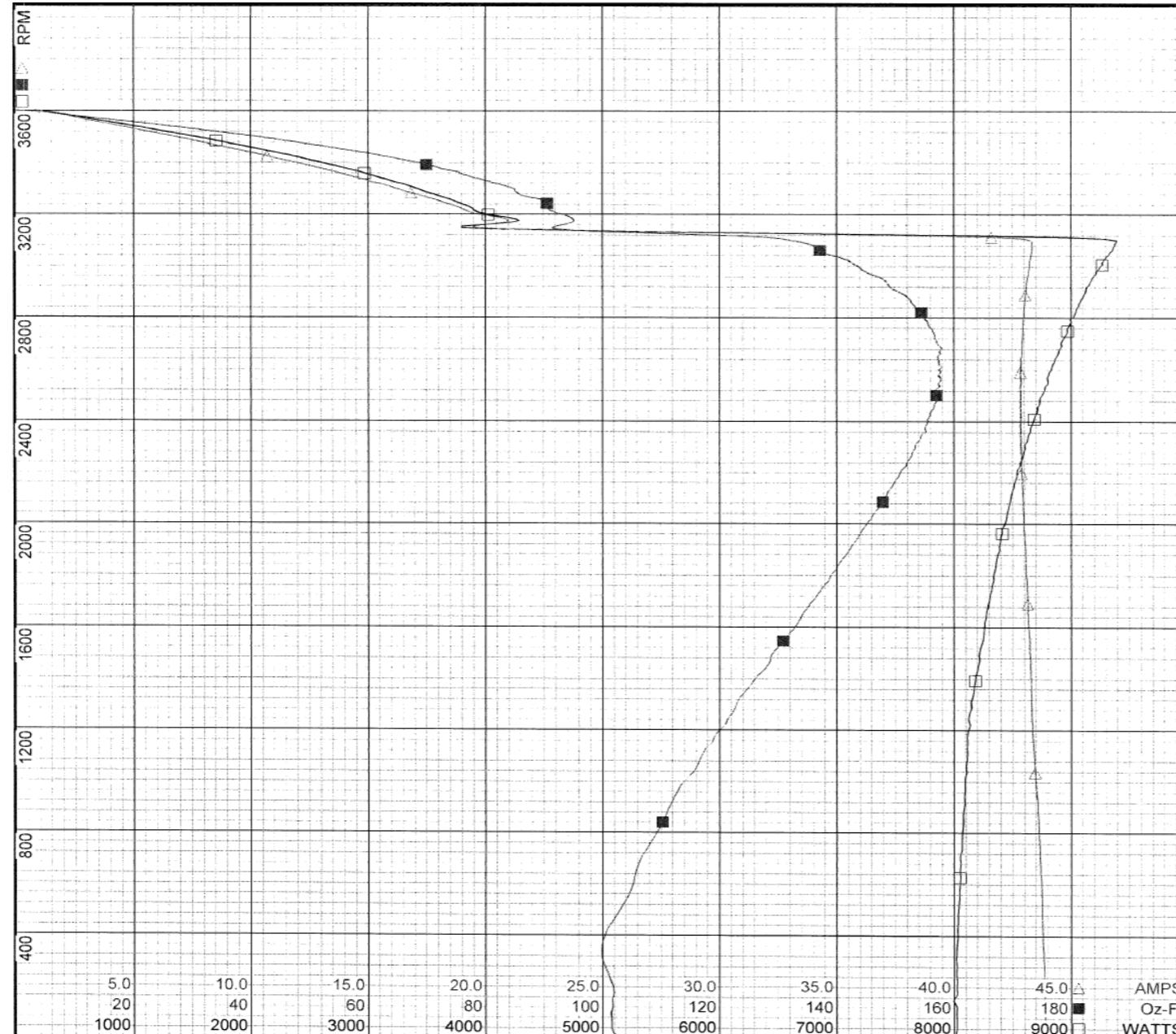
DRAWING NO.	PAGE 5 of 8	REV.
30PT84		-

Performance Data

Dayton®

30PT84

REV.
-



Dayton

Curve Descriptions:

Motor(1) Test 6 Start 230V 60 Hz 2P

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

Motor Ratings:

(1) T063CXCJT205101 ID: 5

DRAWING NO. PAGE 6 of 8
30PT84 REV. -

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

Performance Data

Dayton®

30PT84

REV.
-

Dayton Manufacturing Company

Motor Description

Model: T063CXCJT205101
 Motor ID: 5
 Poles: 2
 Volts: 115/230
 Frequency: 60
 HP: 2
 Speed: 3450
 Phase: 1
 Protector:

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 8 Start Cap: 0μfd
 Poles: 2 Environment: 22.3 Deg C 20 % RH 998 hPa
 Volts: 230 Tested: 3/8/2014 7:49:28 AM
 Hz: 60 Tested By: Sharp, Gerald
 Rotation: Gear Ratio: 1:1
 Special Cond: Provide cap volts, Imain & Iau Bearing Friction: -0.19 Oz-Ft
 Speed Conn: Windage Torque: -1.40 Oz-Ft
 TestBoard: Amtps Performance Fixture #3

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	PF (%)	Cap
48.7 OZ-FT	230.0	218.9	227.5	0.75	3.79	4.245	164	3586	0.00	0.000	94.5	49.5
	230.0	222.7	214.0	3.40	2.28	3.997	783	3548	19.27	0.814	100.2	49.6
	230.0	221.4	199.9	6.08	3.91	3.734	1390	3509	37.38	1.561	99.5	49.6
2 HP	230.0	219.9	190.9	7.93	5.72	3.575	1793	3480	48.70	2.017	98.4	49.7
	230.0	220.0	191.3	7.85	5.65	3.582	1778	3481	48.27	2.000	98.4	49.7
	230.0	219.8	188.3	8.49	6.30	3.530	1920	3469	51.97	2.146	98.3	49.7
56 OZ-FT	230.0	219.0	184.9	9.21	7.05	3.469	2071	3457	56.00	2.305	97.8	49.8
2.3 HP	230.0	219.0	185.0	9.19	7.03	3.471	2066	3458	55.87	2.300	97.8	49.8
3450 RPM	230.0	218.7	182.9	9.64	7.51	3.435	2164	3450	58.19	2.390	97.6	49.8
	230.0	217.4	176.8	10.90	8.87	3.328	2424	3428	64.55	2.634	96.7	49.9
	230.0	214.8	166.8	13.18	11.22	3.146	2870	3384	74.62	3.006	94.7	50.0
	230.0	211.8	156.8	15.34	13.58	2.966	3280	3338	83.03	3.300	93.0	50.2
	230.0	208.1	147.1	17.45	15.91	2.791	3656	3289	89.45	3.502	91.1	50.3
	230.0	204.7	138.3	19.50	18.14	2.629	4005	3237	94.62	3.646	89.3	50.4
	230.0	200.7	130.3	21.43	20.26	2.480	4310	3180	97.53	3.692	87.4	50.5
	230.0	196.6	122.4	23.35	22.38	2.340	4586	3119	100.46	3.731	85.4	50.7
BDT OZ-FT	230.0	192.8	116.9	24.80	24.01	2.236	4752	3068	100.53	3.672	83.3	50.7
	230.0	192.2	115.7	25.16	24.40	2.212	4808	3053	100.43	3.650	83.1	50.7
	230.0	187.8	109.5	26.87	26.30	2.101	5011	2981	98.84	3.507	81.1	50.9
	230.0	183.4	104.4	28.48	28.10	2.006	5185	2903	96.72	3.343	79.1	51.0
	230.0	178.6	100.1	30.02	29.81	1.926	5318	2818	94.09	3.157	77.0	51.0
	230.0	173.9	96.6	31.52	31.49	1.861	5436	2721	89.48	2.899	75.0	51.1
	230.0	169.2	94.3	32.84	32.96	1.820	5511	2622	84.86	2.649	73.0	51.2
	230.0	164.8	92.7	34.07	34.34	1.793	5573	2511	79.83	2.386	71.1	51.3
	230.0	160.3	92.1	35.21	35.63	1.782	5624	2391	73.61	2.095	69.4	51.4
	230.0	156.0	92.1	36.22	36.77	1.783	5640	2266	67.52	1.821	67.7	51.4
	230.0	151.8	92.8	37.12	37.80	1.797	5647	2128	60.89	1.543	66.2	51.4
	230.0	146.9	94.0	37.93	38.74	1.818	5620	1984	54.18	1.279	64.4	51.3
	230.0	143.8	95.4	38.65	39.56	1.845	5625	1827	47.48	1.033	63.3	51.3
	230.0	139.9	97.1	39.32	40.34	1.880	5608	1652	40.50	0.797	62.0	51.4
	230.0	136.9	98.8	39.90	41.01	1.918	5604	1471	33.42	0.585	61.1	51.5
	230.0	133.2	100.9	40.30	41.51	1.942	5549	1295	27.20	0.419	59.9	51.0
	230.0	129.1	103.9	40.65	41.96	1.983	5531	1078	22.23	0.285	59.2	50.6
	230.0	125.2	107.1	40.97	42.36	2.048	5525	847	16.17	0.163	58.6	50.7
	230.0	121.9	109.6	41.20	42.67	2.090	5508	606	9.75	0.070	58.1	50.6
	230.0	118.7	112.1	41.29	42.83	2.134	5498	349	5.73	0.024	57.9	50.5

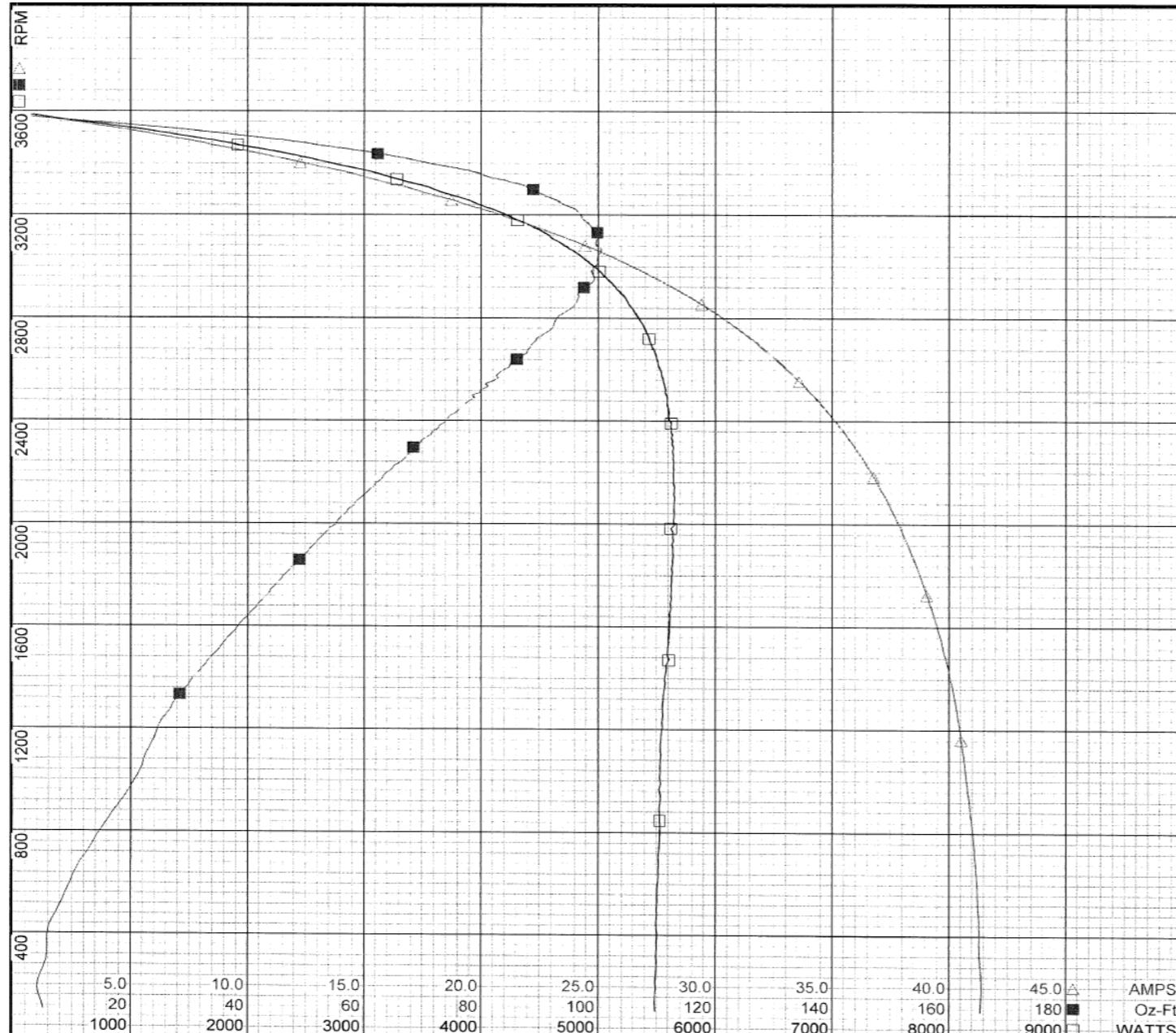
DRAWING NO. PAGE 7 of 8
 30PT84 REV. -

Performance Data

Dayton®

30PT84

REV.
-



Dayton

Curve Descriptions:

Motor(1) Test 8 Run 230V 60 Hz 2P
Provide cap volts, I_{main} & I_{au}

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs I_{Line}

Motor Ratings:

(1) T063CXCJT205101 ID: 5

DRAWING NO. PAGE 8 of 8
30PT84

REV.
-

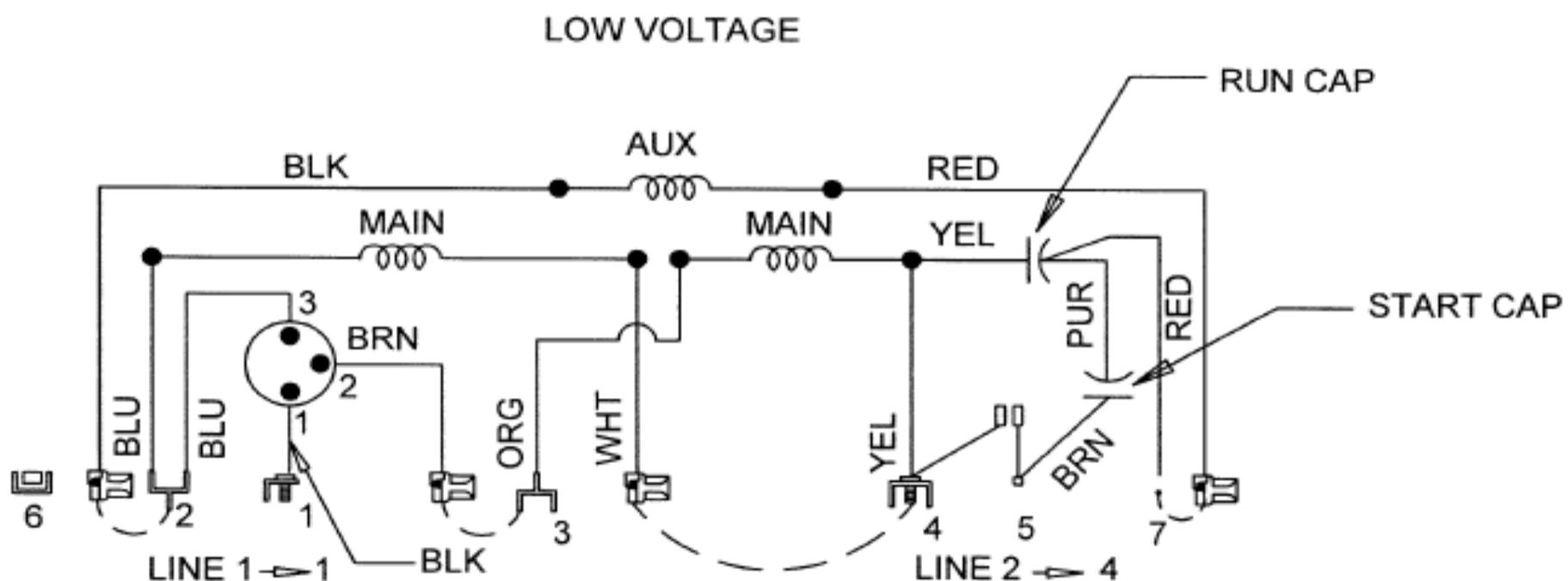
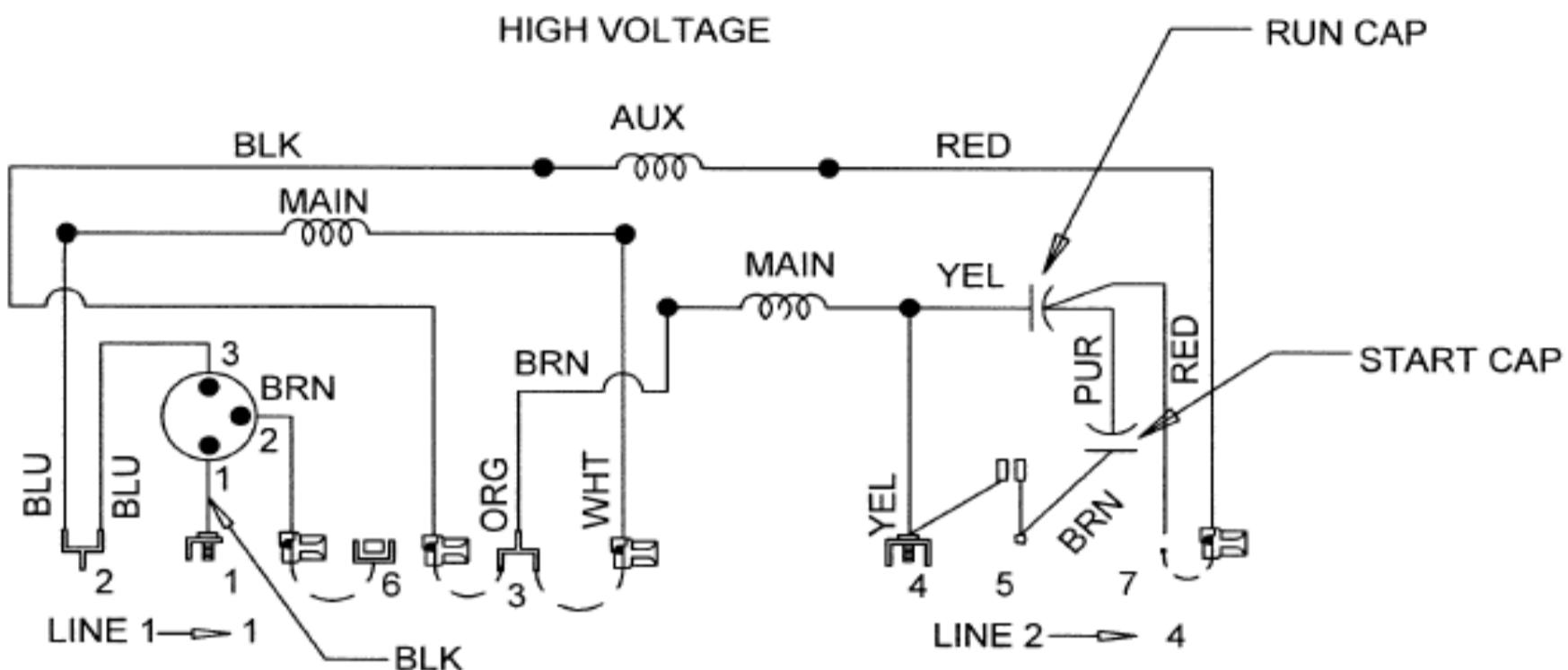
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Wiring Diagram

Dayton®

30PT84

REV.
1



**ROTATION: CCW SWITCH END REVERSIBLE
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS**

DRAWING NO.

30PT84

REV.
1

Dayton®

INDUSTRIAL MOTOR

Part
No

30PT84



HP: 2.0

PH: 1

VOLTS: 115/230

HZ: 60

AMPS: 17.3/8.7

FR: 56H

RPM: 3450

INS CL: B

DUTY: CONT

AMB: 40° C

SF: 1.15

SFA: 19.9/10.0

KVA CODE: D

ENCL: ODP

THERMALLY PROTECTED: AUTO

MFG. NO.



PROT. CODE: 00540

AVG. F.L.
EFF. 82.9

MTR REF: T63CXCJT-2051

USABLE FOR 208 V AT 1.0 SF



E37403



258501

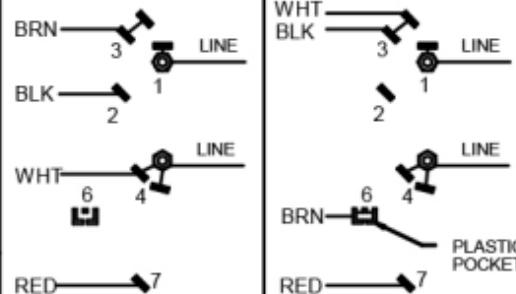
Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA

Made in Mexico



Disconnect Power Before Making Any
Electrical Connections or Changes

CONNECTIONS
LOW VOLTAGE HIGH VOLTAGE



ROTATION CCW LEAD END REVERSIBLE
TO REVERSE ROTATION INTERCHANGE
BLACK AND RED LEADS