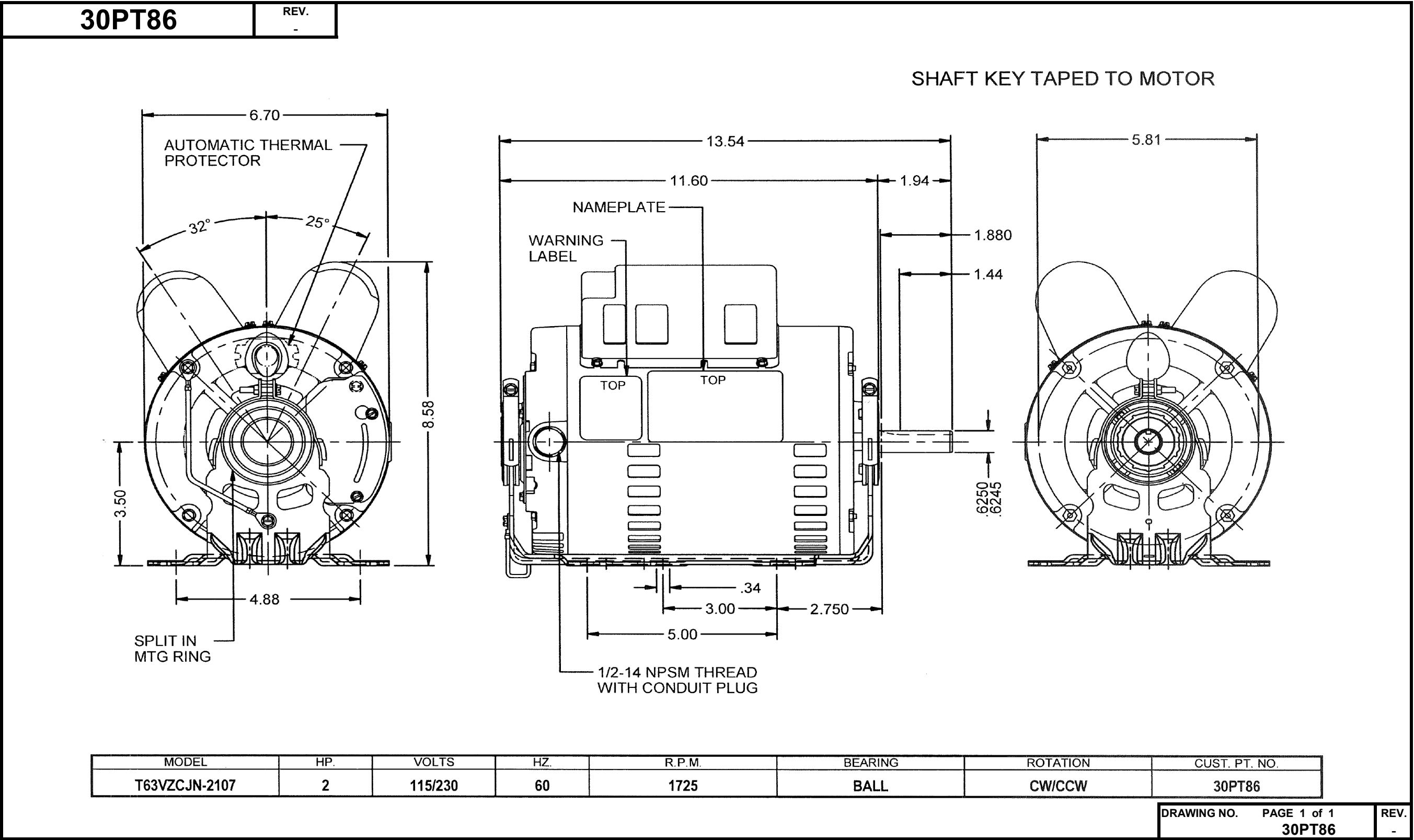


Dimensional Drawing



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

Performance Data



30PT86		REV. -							
MOTOR PERFORMANCE									
HP:	2								
Poles:	4								
No. of Speeds:	1								
Volts:	115/230	115	230						
HZ:	60	60	60						
Service Factor:	1.15								
Efficiency:	@ Rated Load	84.70	84.70						
Power Factor:	@ Rated Load	95.50	94.70						
Amps:	@ No Load								
	@ Rated Load	16.03	8.09						
	@ Service Factor	18.56	9.25						
	@ Locked Rotor	126.43	64.87						
RPM:	@ Rated Load	1762	1763						
Ambient (°C):									
Altitude (FASL):									
Torques:	Breakdown	253.0	258.4						
	Locked Rotor	289.2	265.5						
	Pull-Up	285.8	261.3						
	Rated Load	95.3	95.3						
	Service Factor	6.037	6.076						
Watts:	Rated Load	1761	1761						
KVA Code:									
Temperature Rise:	@ Rated Load	34.3	33.8						
	@ Service Factor	NA	NA						
Thermal Protector:	Trip Temp (°C)								
Winding Material:	Start (Auxiliary)								
	Run (Main)								
Capacitor(s):	Start (MFD / Volts)	649/165V							
	No. of Start Capacitors								
	Run (MFD / Volts)	70/280V							
	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:	Bead Down								
	Locked Rotor								
	Pull-Up								
	Rated Load								
	Service Factor								
Watts:	@ Rated Load								
Temperature Rise:	@ Rated Load								
	@ Service Factor								
		DRAWING NO. 30PT86				PAGE 1 of 1		REV. -	

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

Performance Data



30PT86		REV. -						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model: T063AVCJN2107		Test Type: Start		Run Cap: 0				
Motor ID: 10		Test Number: 32		Start Cap: 0μfd				
Poles: 4		Poles: 4						
Volts: 115/230		Volts: 115		Tested: 10/27/2014 10:02:42 AM				
Frequency: 60		Hz: 60		Tested By: Sharp, Gerald				
HP: 2.0		Rotation:		Gear Ratio: 1:1				
Speed: 1725		Special Cond: 2 line		Bearing Friction: -0.64 Oz-Ft				
Phase: 1		Speed Conn:		Windage Torque: -1.28 Oz-Ft				
Protector:		TestBoard:		Amps Performance		Fixture #2		
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	126.15	12400	18	277.6	0.060	0.4	85.5
	115.0	126.12	12408	60	284.8	0.203	1.2	85.6
PUT OZ-FT	115.0	126.29	12412	159	263.3	0.498	3.0	85.5
	115.0	126.12	12420	214	272.2	0.693	4.2	85.6
	115.0	125.90	12444	359	288.7	1.232	7.4	85.9
	115.0	125.93	12474	491	295.8	1.729	10.3	86.1
	115.0	126.71	12596	615	314.6	2.303	13.6	86.4
	115.0	127.34	12793	727	332.9	2.883	16.8	87.4
	115.0	126.97	12848	832	347.8	3.446	20.0	88.0
	115.0	126.70	12897	927	360.9	3.984	23.0	88.5
	115.0	126.59	12965	1015	372.6	4.504	25.9	89.1
	115.0	126.57	13045	1095	379.4	4.948	28.3	89.6
	115.0	126.53	13125	1168	383.1	5.327	30.3	90.2
	115.0	126.33	13178	1234	379.6	5.578	31.6	90.7
	115.0	126.62	13280	1296	378.5	5.838	32.8	91.2
	115.0	126.64	13363	1350	371.2	5.967	33.3	91.8
	115.0	126.48	13411	1400	359.9	6.000	33.4	92.2
	115.0	126.43	13473	1446	342.6	5.895	32.6	92.7
	115.0	84.25	8207	1477	240.0	4.219	38.3	84.7
	115.0	69.52	6793	1519	249.9	4.518	49.6	85.0
	115.0	63.78	6364	1559	253.2	4.699	55.1	86.8
	115.0	58.42	5941	1592	250.3	4.743	59.6	88.4
	115.0	53.13	5494	1622	241.2	4.659	63.3	89.9
	115.0	47.80	5006	1649	232.0	4.553	67.9	91.1
	115.0	42.26	4467	1675	216.5	4.316	72.1	91.9
	115.0	36.95	3953	1696	198.1	4.000	75.5	93.0
	115.0	31.49	3401	1716	174.6	3.568	78.3	93.9
	115.0	25.85	2801	1736	149.2	3.084	82.1	94.2
	115.0	20.19	2180	1755	116.6	2.436	83.4	93.9
	115.0	14.40	1526	1773	79.6	1.680	82.1	92.2
	115.0	8.78	821	1793	36.3	0.775	70.4	81.3
	115.0	6.84	529	1799	16.9	0.363	51.1	67.2

DRAWING NO. 30PT86

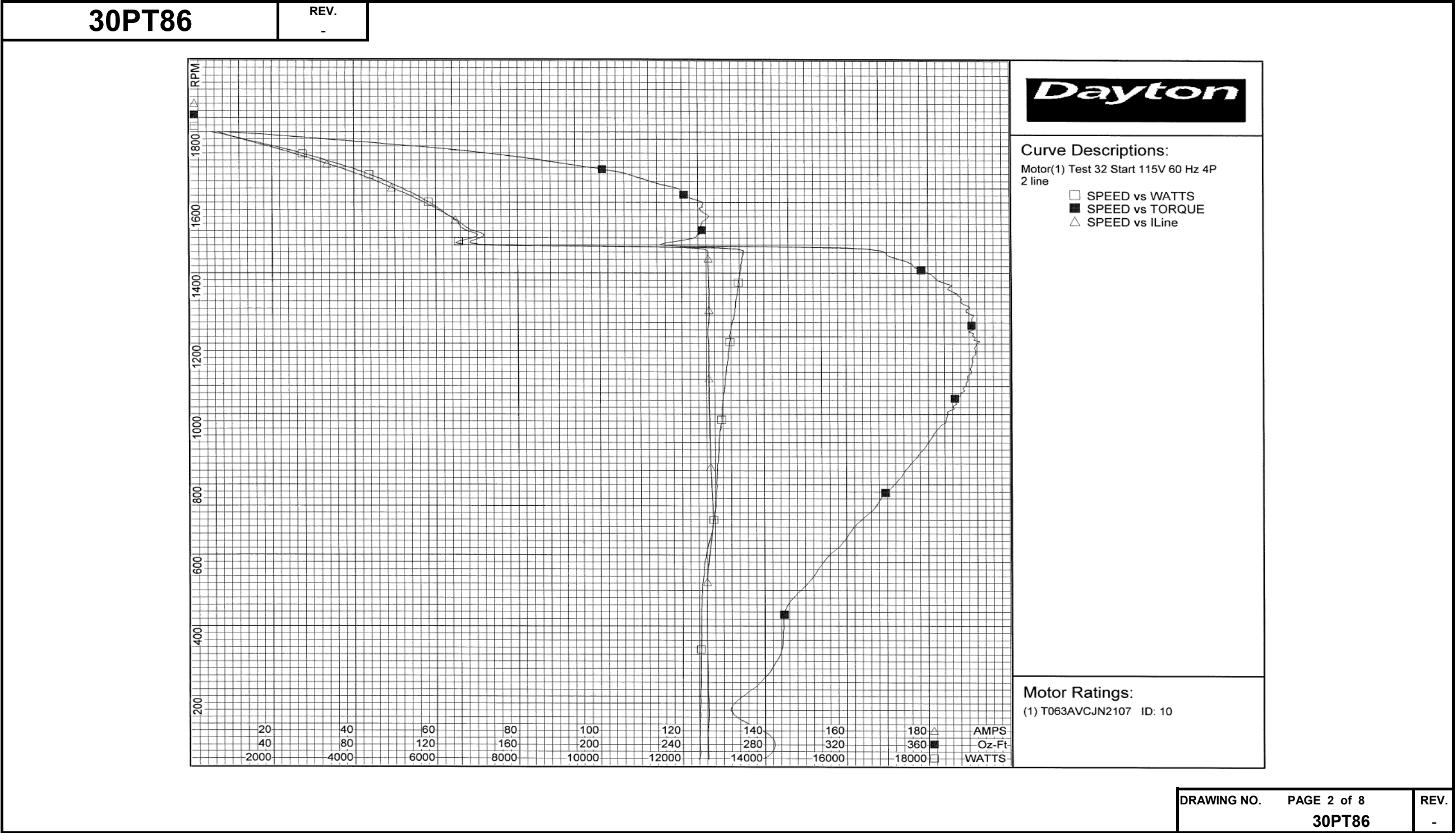
PAGE 1 of 8

REV. -

DRAWING NO.	PAGE 1 of 8	REV.
	30PT86	-

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

Performance Data



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

Performance Data



30PT86

REV.

-

Dayton Manufacturing Company

Motor Description

Model: T063AVCJN2107
Motor ID: 10
Poles: 4
Volts: 115/230
Frequency: 60
HP: 2.0
Speed: 1725
Phase: 1
Protector:

Test Conditions

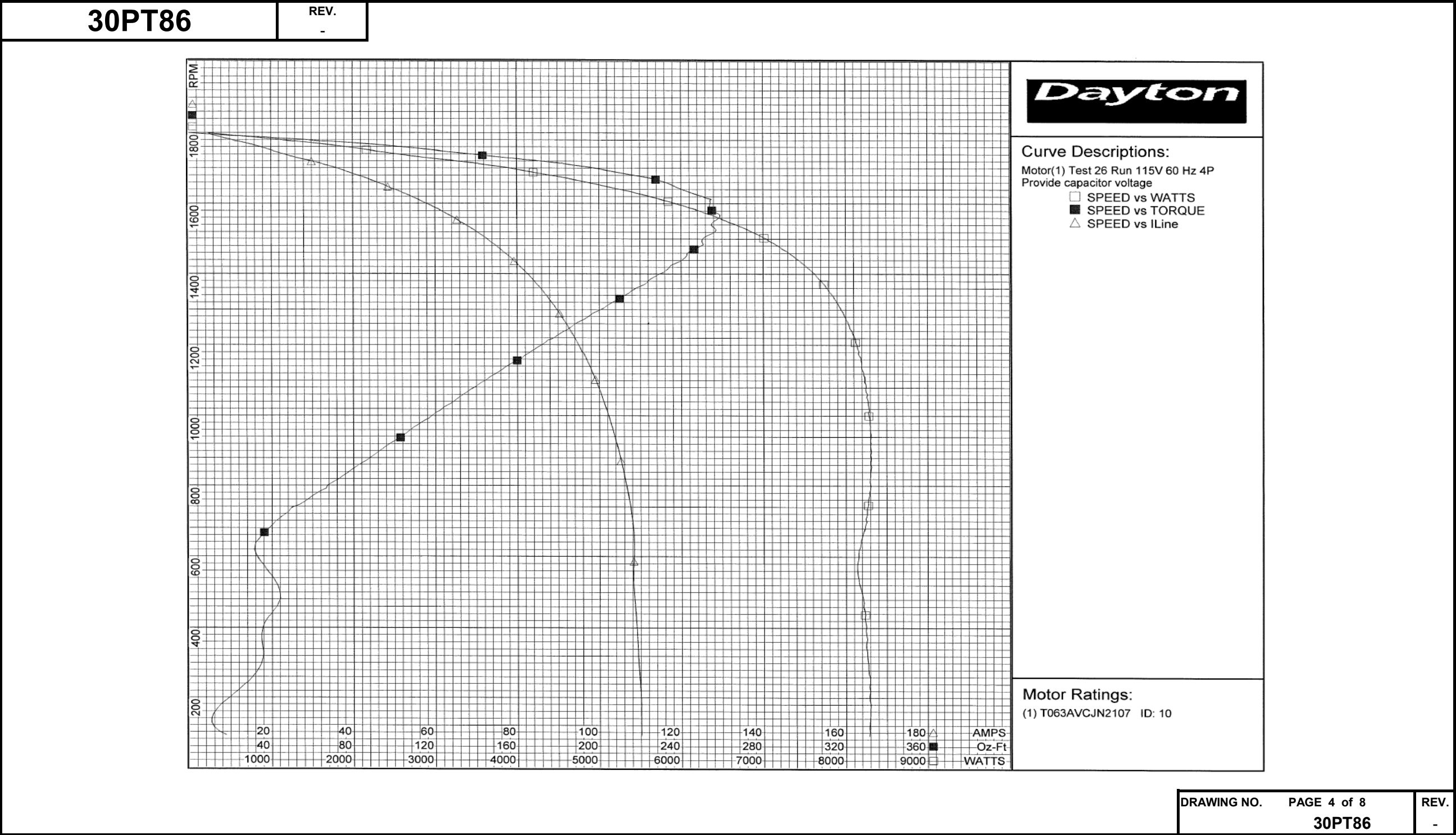
Test Type: Run
Test Number: 26
Poles: 4
Volts: 115
Hz: 60
Rotation:
Special Cond: Provide capacitor voltage
Speed Conn:
TestBoard: Amtps Performance Fixture #2
Run Cap: 0
Start Cap: 0μfd
Tested: 10/27/2014 10:15:52 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.48 Oz-Ft
Windage Torque: -1.28 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	216.4	249.9	4.74	8.36	6.828	228	1800	0.0	0.000	41.7	72.5
	115.0	211.7	240.3	8.70	7.03	6.587	887	1785	42.5	0.903	88.7	72.7
	115.0	202.7	227.0	14.46	10.99	6.184	1580	1769	84.5	1.779	95.0	72.3
2 HP	115.0	199.9	223.4	16.11	12.53	6.073	1765	1764	95.2	2.000	95.3	72.1
97.4 OZ-FT	115.0	199.3	222.7	16.45	12.85	6.051	1802	1763	97.4	2.045	95.3	72.1
112 OZ-FT	115.0	195.5	217.8	18.83	15.15	5.899	2066	1755	112.0	2.340	95.4	71.8
	115.0	193.8	215.8	19.80	16.11	5.839	2172	1751	118.1	2.461	95.4	71.8
	115.0	185.6	205.2	25.44	21.75	5.546	2794	1732	150.0	3.092	95.5	71.7
1725 RPM	115.0	182.4	201.4	27.60	23.95	5.463	3028	1725	161.4	3.314	95.4	72.0
	115.0	174.6	192.3	32.80	29.33	5.249	3571	1711	184.8	3.764	94.7	72.4
	115.0	164.3	180.8	39.12	35.93	4.917	4205	1688	209.5	4.208	93.5	72.2
	115.0	154.4	170.1	45.17	42.27	4.652	4790	1663	230.7	4.568	92.2	72.5
	115.0	144.9	159.8	51.02	48.46	4.410	5343	1636	242.3	4.720	91.1	73.2
	115.0	135.0	150.1	56.83	54.58	4.148	5843	1606	254.2	4.860	89.4	73.3
	115.0	125.7	141.3	62.22	60.25	3.915	6279	1574	257.3	4.821	87.7	73.5
BDT OZ-FT	115.0	123.9	139.8	63.27	61.37	3.873	6365	1568	259.0	4.834	87.5	73.5
	115.0	116.7	133.6	67.39	65.72	3.737	6674	1540	254.8	4.671	86.1	74.2
	115.0	107.9	126.6	72.24	70.85	3.552	7010	1503	251.1	4.492	84.4	74.4
	115.0	99.1	120.5	76.79	75.67	3.392	7299	1462	243.5	4.237	82.7	74.7
	115.0	91.0	115.5	80.93	80.06	3.259	7536	1418	234.1	3.952	81.0	74.8
	115.0	83.3	111.4	84.80	84.18	3.148	7737	1371	222.3	3.628	79.3	75.0
	115.0	75.8	108.5	88.38	87.99	3.052	7895	1320	206.5	3.246	77.7	74.7
	115.0	68.5	106.3	91.61	91.44	2.964	8021	1266	190.4	2.869	76.1	74.0
	115.0	62.1	105.2	94.62	94.65	2.948	8121	1207	174.0	2.501	74.6	74.3
	115.0	56.0	104.8	97.54	97.77	2.923	8193	1143	155.8	2.119	73.0	74.0
	115.0	50.0	104.6	100.00	100.40	2.907	8241	1074	137.2	1.755	71.7	73.7
	115.0	44.7	105.0	102.17	102.73	2.909	8281	1000	118.4	1.411	70.5	73.5
	115.0	39.5	105.6	104.14	104.84	2.914	8306	922	98.3	1.079	69.4	73.2
	115.0	34.6	106.2	105.87	106.71	2.910	8300	836	77.2	0.769	68.2	72.7
	115.0	29.5	106.3	107.40	108.34	2.886	8274	745	53.6	0.475	67.0	72.0
	115.0	22.8	106.2	108.32	109.43	2.845	8184	647	33.4	0.257	65.7	71.0
	115.0	15.6	110.9	108.15	109.45	2.961	8145	547	39.4	0.257	65.5	70.8
	115.0	16.1	116.8	108.76	110.19	3.142	8234	438	39.5	0.206	65.8	71.4
	115.0	15.6	118.7	109.34	110.81	3.174	8258	320	35.7	0.136	65.7	71.0
	115.0	15.7	121.1	109.96	111.54	3.270	8287	193	18.0	0.041	65.5	71.7

DRAWING NO.	PAGE 3 of 8	REV.
	30PT86	-

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

Performance Data



Performance Data



30PT86		REV. -								
Dayton Manufacturing Company										
Motor Description					Test Conditions					
Model:		T063AVCJN2107			Test Type:		Start		Run Cap: 0	
Motor ID:		10			Test Number:		33		Start Cap: 0µfd	
Poles:		4			Poles:		4			
Volts:		115/230			Volts:		230		Tested: 10/24/2014 10:25:33 AM	
Frequency:		60			Hz:		60		Tested By: Sharp, Gerald	
HP:		2.0			Rotation:				Gear Ratio: 1:1	
Speed:		1725			Special Cond:		2 line		Bearing Friction: -0.48 Oz-Ft	
Phase:		1			Speed Conn:				Windage Torque: -1.12 Oz-Ft	
Protector:					TestBoard:		Amps Performance		Fixture #2	
Special Points		Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)	
		230.0	65.21	12318	19	263.7	0.060	0.4	82.1	
		230.0	65.21	12323	60	267.7	0.192	1.2	82.2	
PUT OZ-FT		230.0	65.11	12310	158	246.3	0.464	2.8	82.2	
		230.0	65.06	12329	212	255.9	0.646	3.9	82.4	
		230.0	64.80	12319	359	269.3	1.150	7.0	82.7	
		230.0	64.62	12308	489	278.2	1.620	9.8	82.8	
		230.0	64.83	12388	613	293.6	2.142	12.9	83.1	
		230.0	65.20	12598	727	308.7	2.672	15.8	84.0	
		230.0	64.99	12672	831	323.6	3.202	18.9	84.8	
		230.0	64.71	12714	927	336.4	3.712	21.8	85.4	
		230.0	64.49	12777	1015	346.0	4.179	24.4	86.1	
		230.0	64.29	12829	1094	353.2	4.602	26.8	86.8	
		230.0	64.06	12879	1168	356.6	4.957	28.7	87.4	
		230.0	63.82	12917	1234	355.2	5.220	30.1	88.0	
		230.0	63.57	12957	1295	350.5	5.404	31.1	88.6	
		230.0	63.30	12987	1350	343.7	5.525	31.7	89.2	
		230.0	63.06	13028	1399	334.4	5.570	31.9	89.8	
		230.0	62.81	13070	1445	319.7	5.500	31.4	90.5	
		230.0	35.44	6673	1477	251.6	4.423	49.5	81.9	
		230.0	34.33	6673	1522	253.2	4.586	51.3	84.5	
		230.0	31.79	6305	1560	253.2	4.702	55.6	86.2	
		230.0	29.12	5881	1593	250.3	4.748	60.2	87.8	
		230.0	26.48	5438	1623	245.8	4.749	65.2	89.3	
		230.0	23.76	4951	1650	232.9	4.574	68.9	90.6	
		230.0	21.12	4460	1673	217.6	4.335	72.5	91.8	
		230.0	18.43	3931	1696	199.0	4.018	76.2	92.7	
		230.0	15.73	3382	1717	176.3	3.604	79.5	93.5	
		230.0	12.94	2792	1736	147.8	3.054	81.6	93.8	
		230.0	10.17	2195	1755	117.5	2.455	83.4	93.9	
		230.0	7.30	1549	1773	80.0	1.687	81.3	92.3	
		230.0	4.45	859	1792	38.7	0.825	71.7	83.8	
		230.0	3.56	614	1799	22.8	0.488	59.3	74.9	

DRAWING NO.

PAGE 5 of 8

30PT86

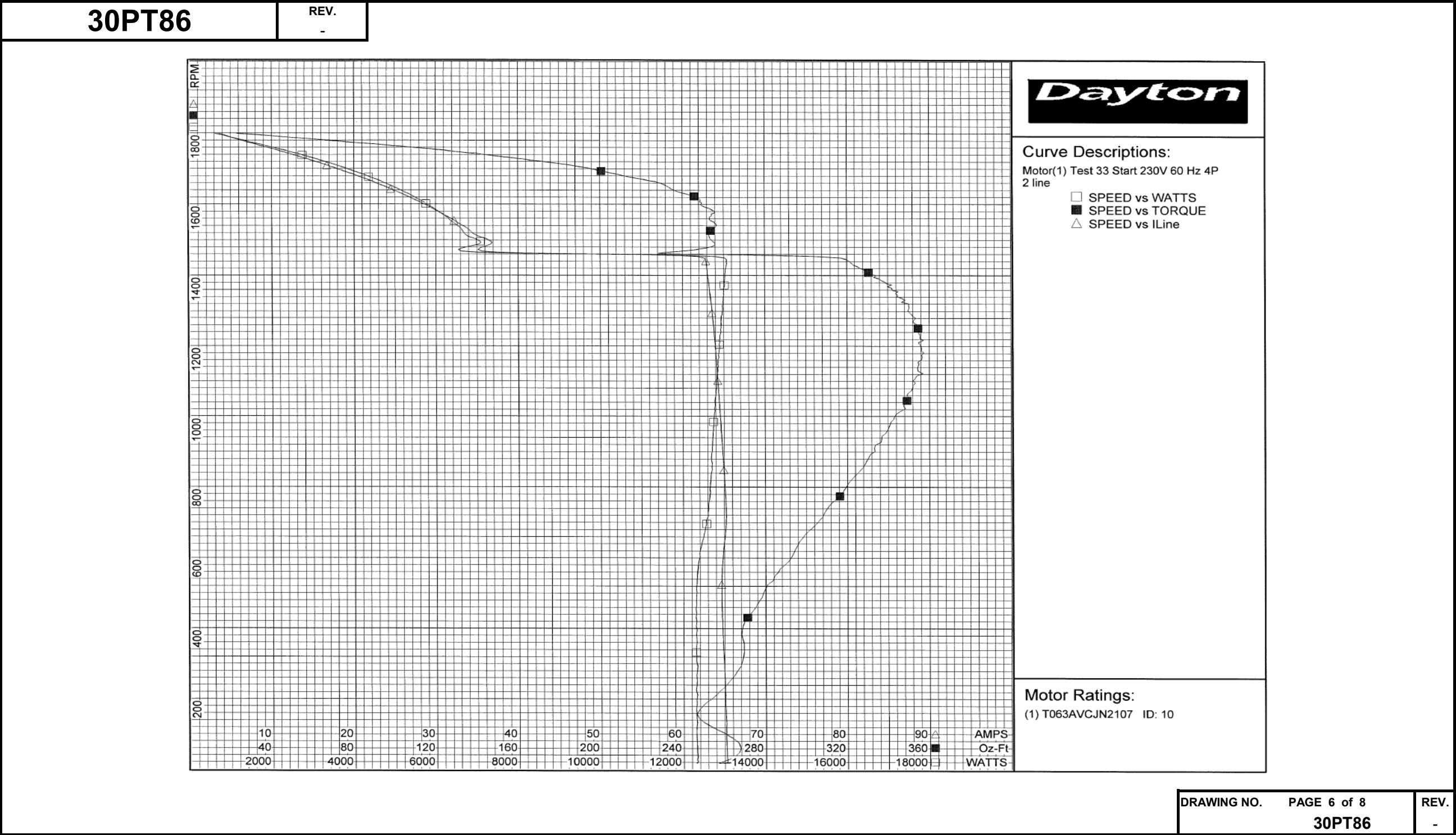
REV.

-

DRAWING NO.	PAGE 5 of 8	REV.
	30PT86	-

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

Performance Data



Performance Data



30PT86

REV.

-

Dayton Manufacturing Company

Motor Description

Model: T063AVCJN2107
Motor ID: 10
Poles: 4
Volts: 115/230
Frequency: 60
HP: 2.0
Speed: 1725
Phase: 1
Protector:

Test Conditions

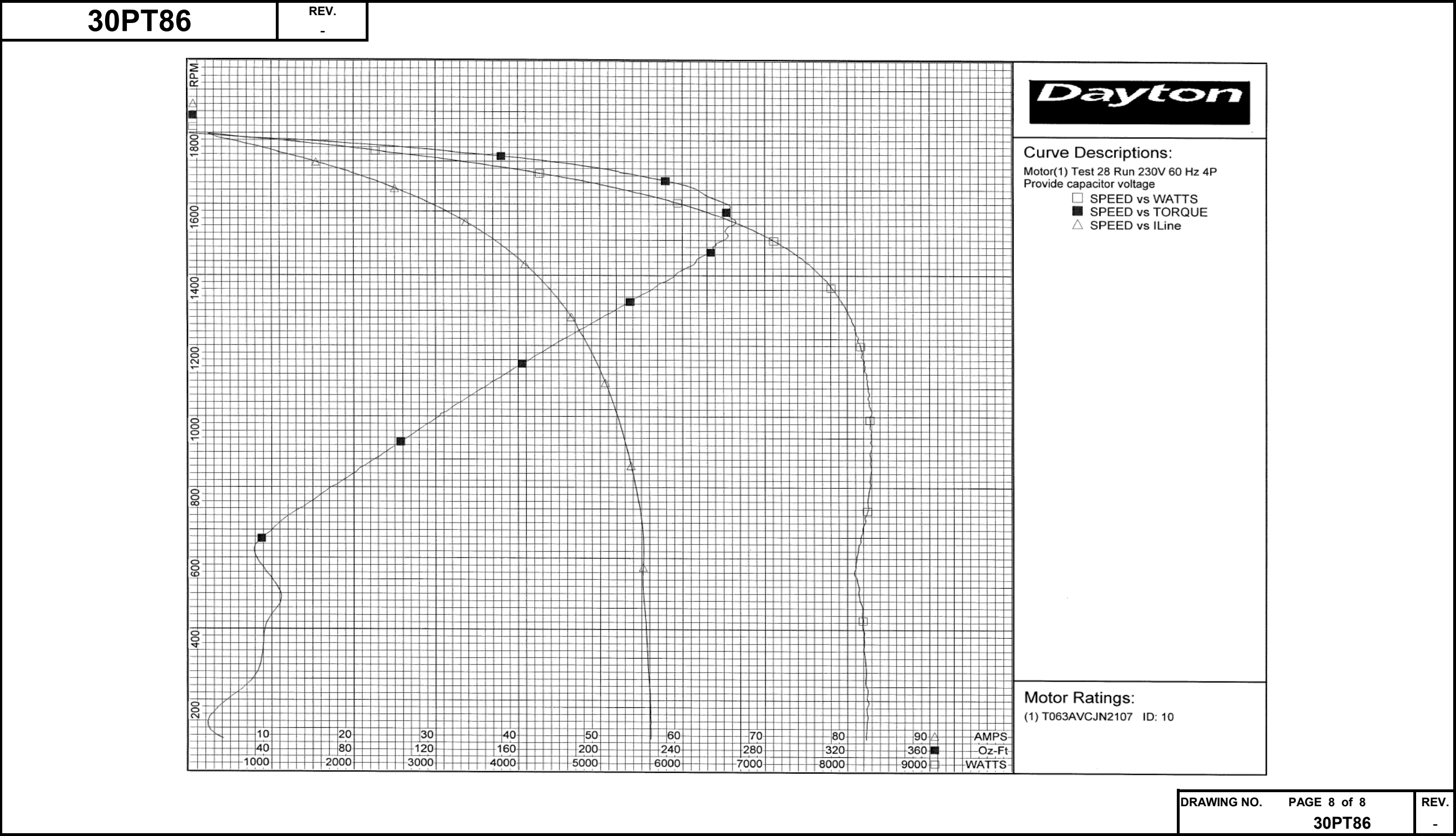
Test Type: Run
Test Number: 28
Poles: 4
Volts: 230
Hz: 60
Rotation:
Special Cond: Provide capacitor voltage
Speed Conn:
TestBoard: Amtps Performance Fixture #2
Run Cap: 0
Start Cap: 0μfd
Tested: 10/24/2014 9:03:24 AM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.48 Oz-Ft
Windage Torque: -1.28 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	PF (%)	Cap
	230.0	240.0	249.6	2.32	7.20	6.796	244	1798	0.0	0.000	45.7	72.2
	230.0	242.3	239.1	4.56	5.09	6.534	951	1782	46.0	0.976	90.8	72.5
	230.0	239.3	226.5	7.50	5.38	6.159	1643	1767	87.7	1.844	95.3	72.1
2 HP	230.0	238.5	224.3	8.09	5.72	6.095	1770	1763	95.3	2.000	95.2	72.1
97.4 OZ-FT	230.0	238.1	223.7	8.26	5.83	6.076	1808	1763	97.4	2.044	95.2	72.0
112 OZ-FT	230.0	236.4	219.2	9.46	6.74	5.948	2070	1756	112.0	2.341	95.2	72.0
	230.0	235.2	215.7	10.38	7.52	5.851	2269	1750	123.0	2.561	95.1	72.0
	230.0	231.1	204.8	13.53	10.49	5.587	2952	1730	158.8	3.271	94.9	72.4
1725 RPM	230.0	229.8	202.0	14.36	11.34	5.515	3128	1725	167.0	3.430	94.7	72.4
	230.0	226.1	193.8	16.75	13.81	5.296	3625	1710	189.6	3.860	94.1	72.5
	230.0	221.1	182.9	19.95	17.22	5.027	4270	1686	213.8	4.290	93.1	72.9
	230.0	215.3	171.9	23.19	20.73	4.738	4885	1660	236.0	4.664	91.6	73.1
	230.0	210.0	161.9	26.23	24.01	4.486	5435	1633	249.6	4.850	90.1	73.5
	230.0	204.4	152.2	29.22	27.31	4.247	5944	1603	260.7	4.976	88.5	74.0
	230.0	198.6	143.4	32.06	30.45	4.011	6391	1571	262.2	4.903	86.7	74.2
BDT OZ-FT	230.0	195.3	138.3	33.68	32.24	3.881	6636	1550	266.0	4.909	85.7	74.4
	230.0	192.9	135.3	34.72	33.40	3.799	6776	1536	261.9	4.789	84.9	74.5
	230.0	187.2	128.2	37.22	36.19	3.605	7113	1498	259.2	4.622	83.1	74.6
	230.0	181.6	121.8	39.56	38.80	3.437	7394	1457	250.6	4.348	81.3	74.8
	230.0	176.1	116.6	41.70	41.21	3.290	7623	1413	239.0	4.021	79.5	74.8
	230.0	170.7	112.3	43.68	43.45	3.164	7808	1366	226.4	3.681	77.7	74.7
	230.0	165.7	109.0	45.50	45.50	3.064	7968	1314	211.1	3.302	76.1	74.5
	230.0	160.6	106.6	47.16	47.38	2.990	8078	1260	194.6	2.919	74.5	74.4
	230.0	155.9	104.9	48.55	49.06	2.933	8162	1199	176.7	2.523	73.1	74.2
	230.0	151.3	104.0	49.90	50.62	2.892	8211	1135	158.2	2.139	71.5	73.8
	230.0	147.1	103.7	51.13	52.01	2.870	8266	1067	139.0	1.765	70.3	73.4
	230.0	143.0	103.7	52.24	53.29	2.858	8276	992	119.5	1.412	68.9	73.1
	230.0	139.4	104.1	53.21	54.44	2.861	8296	912	98.9	1.074	67.8	72.9
	230.0	136.1	104.5	54.09	55.45	2.854	8280	826	76.7	0.754	66.6	72.5
	230.0	133.5	104.2	54.84	56.34	2.816	8245	734	52.0	0.454	65.4	71.7
	230.0	130.4	103.9	55.24	56.91	2.780	8136	637	32.0	0.242	64.0	71.0
	230.0	123.5	109.0	55.13	57.00	2.916	8120	536	40.9	0.261	64.0	71.0
	230.0	118.3	114.4	55.48	57.46	3.065	8190	426	38.4	0.195	64.2	71.1
	230.0	116.5	116.1	55.76	57.78	3.104	8219	307	34.7	0.127	64.1	70.9
	230.0	113.6	118.3	56.04	58.17	3.188	8233	179	14.0	0.030	63.9	71.5

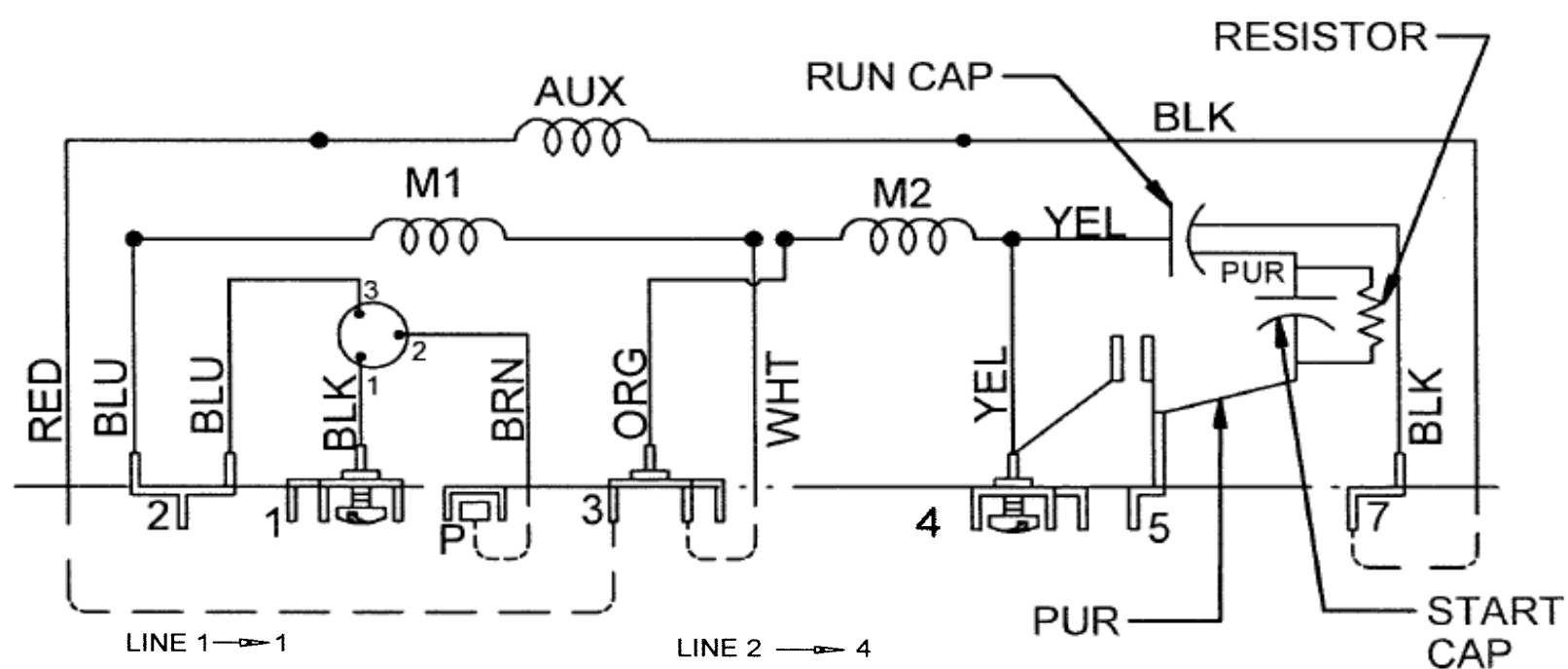
DRAWING NO.	PAGE 7 of 8	REV.
	30PT86	-

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

Performance Data



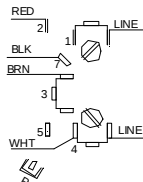
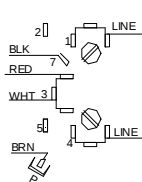
Dayton®

REV.
0

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

REV.
0

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

Dayton**INDUSTRIAL MOTOR**Part
No**30PT86****HP:** 2**PH:** 1**VOLTS:** 115/230**HZ:** 60**AMPS:** 17.0/8.5**FR:** 56H**RPM:** 1725**INS CL:** B**DUTY:** CONT**AMB:** 40 °C**SF:** 1.15**SFA:** 19.6/9.8**KVA CODE:** J**ENCL:** ODP**THERMALLY PROTECTED:** AUTOMFG. NO. PROT. CODE: 08021AVG. F.L.
EFF. 84.5**MTR REF:** T63VZCJN-2107**USABLE FOR 208 V AT 1.0 SF****NEMA**
Premium**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS****115 VOLT****230 VOLT****MOTOR IS CW ROTATION SHAFT END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS.****RU**
US
E37403**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**