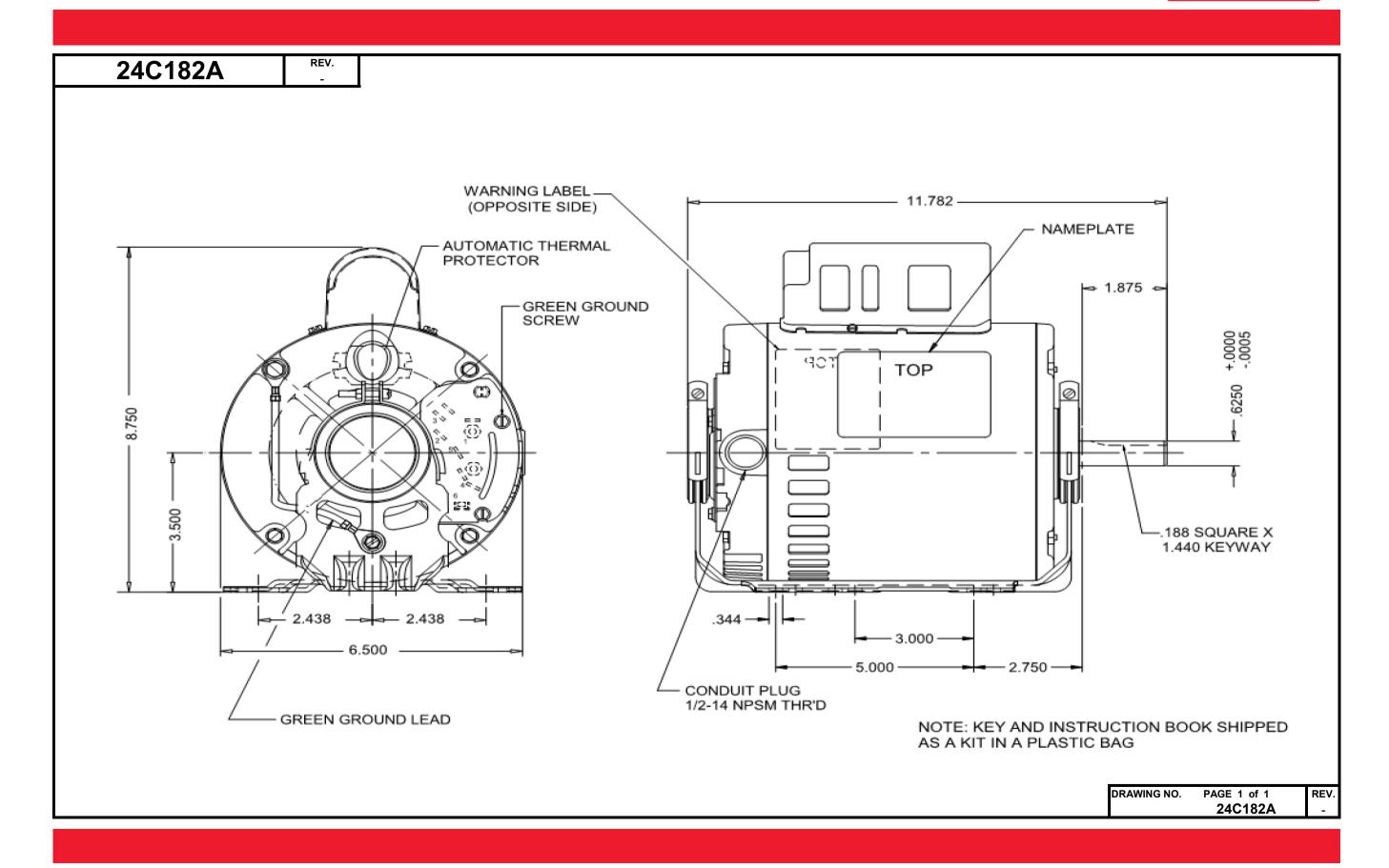
# **Dimensional Drawing**





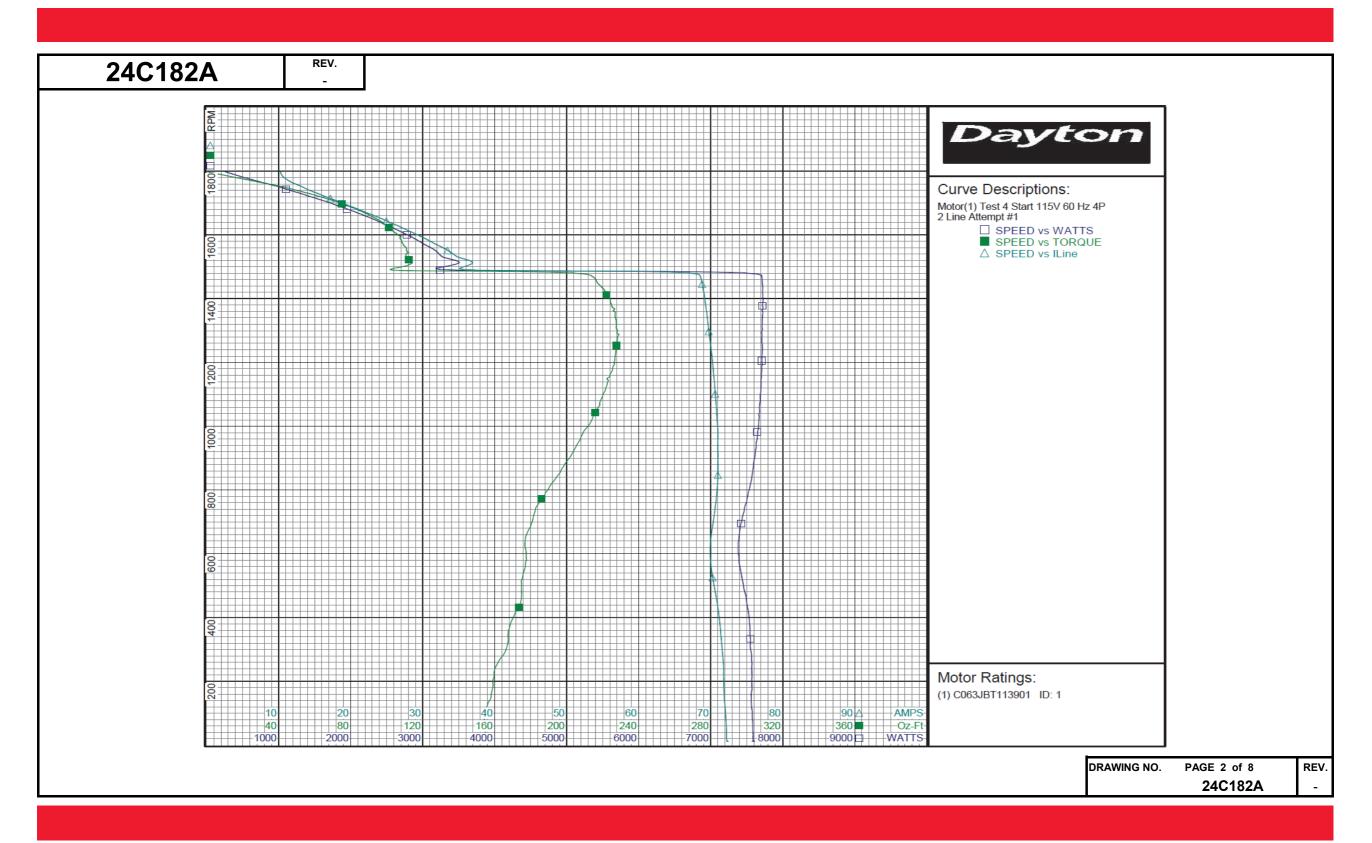


24C182										
	MOTO	R PERF	ORMA	NCE						
HP:	1.0 HP									
Poles:	4P									
No. of Speeds:	1Spd									
		115	200	000	ı	<del></del>				
Volts:	115/280-230 V 60	60	208 60	230 60		_		-		
Service Factor:	1.15	00	60	60						
Efficiency:	@ Rated Load	66	67.7	67.4				<del>                                     </del>		
Power Factor:	@ Rated Load	72.2	77.3	70.2						
Amps:	@ No Load	72.2	77.0	70.2						
7 <b>po</b> .	@ Rated Load	13.6	6.9	6.9						
	@ Service Factor	14.9	7.7	7.4						
	@ Locked Rotor	72.33	33.29	37.32						
RPM:	@ Rated Load									
Ambient (°C):	40									
					1	_				
Torques:	Breakdown	110.1	92.65	116.77						
	Locked Rotor	149.9	114.49	142.3						
	Pull-Up	149.9	113.17	137.1				<u> </u>		
	Rated Load Service Factor									
Watts:	Rated Load					+				
KVA Code:	Rated Load						+			
Temperature Rise:	@ Rated Load	57.6	58.9	57.7		_		<del>                                     </del>		
Temperature Mise.	@ Service Factor	72.9	85	74.4						
Thermal Protector:	Trip Temp (°C)	12.0	- 55			<del>                                     </del>				
Winding Material:	Start (Auxiliary)				Cu	<u> </u>		<u> </u>		
<b>.</b>	Run (Main)				Al					
Capacitor(s):	Start (MFD / Volts)		485-553 MFD / 125 VAC							
	No. of Start Capacitors									
	Run (MFD / Volts)									
	No. of Run Capacitors				ı					
DEDEGRAMA								<u> </u>		
PERFORMANCE	DATA:									
HP:										
Poles:						<u> </u>				
Volts:										
HZ: Efficiency:	@ Rated Load						+	<del>                                     </del>		
Power Factor:	@ Rated Load						_			
Amps:	@ No Load					1	+			
Allips.	@ Rated Load									
	@ Service Factor					1				
	@ Locked Rotor									
Torques:	@ Rated Load									
•	Locked Rotor									
	Pull-Up									
	Rated Load									
	Service Factor									
Watts:	@ Rated Load									
Temperature Rise:	@ Rated Load									
	@ Service Factor									



4C182A	REV.									
				Da	ayton M	anufactu	ring Cor	npany		
Motor Des	cription					Test Con	ditions			
Model:	C063JBT113	3901		Test Type:	Start		Run Ca	ap:	0	
Motor ID:	1			Test Numb			Start C	_	0μfd	
Poles:	4			Poles:	4			1	•	
Volts:	115/208-230	)		Volts:	115		Tested		3/2/2012 2:14:	01 PM
Frequency:	60			Hz:	60		Tested		Sharp, Gerald	01 1111
HP:	1			Rotation:			Gear R	•	1:1	
Speed:	1725				nd: 2 Line				-1.12 Oz-Ft	
_	1/23									
Phase:	CEISI CV			Speed Con		Df		ge 1 orque	: -3.20 Oz-Ft	
Protector:	CEJ51 CX			TestBoard	Amips	Performance	rixture #1			
Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)		
PUT OZ-FT	115.0	72.33	7601	11	149.9	0.020	0.2	91.4		
	115.0 115.0	72.33 72.16	7601 7582	11 58	149.9 154.0	0.020	0.2 1.0	91.4 91.4		
	115.0	71.76	7570	214	159.6	0.106 0.407	4.0	91.7		
	115.0	71.35	7544	359	167.6	0.716	7.1	91.9		
	115.0	70.52	7458	491	174.8	1.021	10.2	92.0		
	115.0	69.90	7378	612	177.2	1.291	13.1	91.8		
	115.0 115.0	70.50 70.94	7452 7562	725 829	181.8 192.9	1.569 1.902	15.7 18.8	91.9 92.7		
	115.0	70.97	7622	925	204.1	2.249	22.0	93.4		
	115.0	70.88	7665	1014	213.4	2.575	25.1	94.0		
	115.0	70.64	7685	1094	219.9	2.865	27.8	94.6		
	115.0 115.0	70.36 70.06	7705 7714	1168 1236	224.7 227.2	3.125 3.344	30.3 32.3	95.2 95.7		
	115.0	69.72	7708	1297	228.0	3.521	34.1	96.1		
	115.0	69.45	7721	1353	227.0	3.658	35.3	96.7		
	115.0	69.13	7720	1404	223.4	3.734	36.1	97.1		
	115.0	68.76	7717	1450	216.9	3.744	36.2	97.6		
	115.0 115.0	53.13 36.44	5544 3458	1486 1520	145.1 113.2	2.568 2.049	34.5 44.2	90.7 82.5		
	115.0	32.92	3124	1558	111.0	2.059	49.2	82.5		
	115.0	29.94	2852	1592	107.2	2.033	53.2	82.8		
	115.0	27.03	2571	1623	101.2	1.955	56.7	82.7		
	115.0 115.0	24.21 21.41	2291 2001	1651 1677	94.0 84.2	1.848 1.680	60.2 62.6	82.3 81.3		
	115.0	18.83	1718	1699	74.3	1.503	65.3	79.3		
	115.0	16.27	1413	1721	61.8	1.266	66.8	75.5		
	115.0	14.08	1128	1741	48.6	1.007	66.6	69.7		
	115.0	11.89	780	1763	30.6	0.642	61.4	57.1		
	115.0 115.0	10.56 10.23	470 254	1783 1798	13.1	0.277	43.9 0.0	38.8 21.6		
	220.0		201	2.55				22.0		
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										24C18







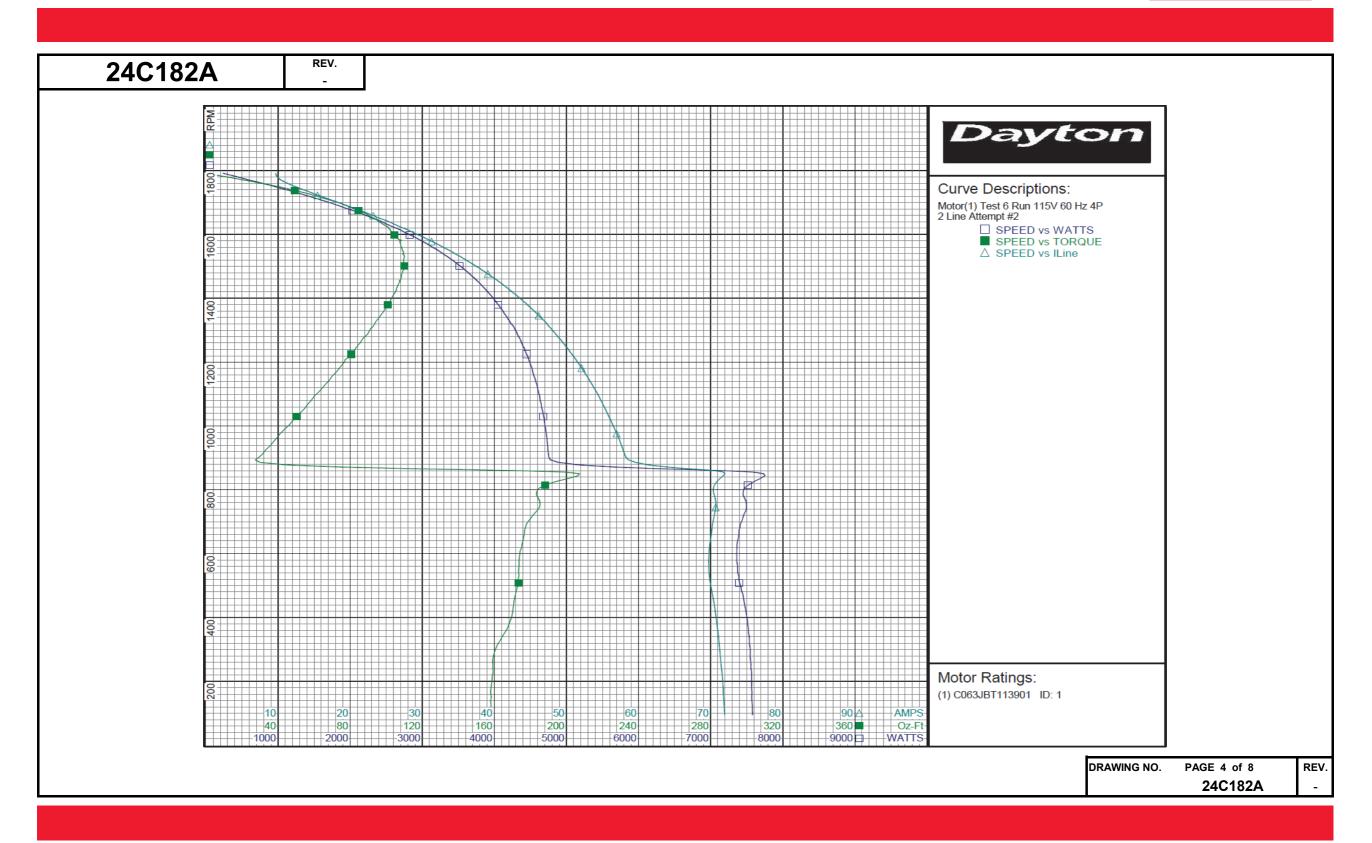
24C182A REV.

#### **Dayton Manufacturing Company**

Motor Des	cription		Test Conditions							
Model:	C063JBT113	3901		Test Type:	Run		Run Ca	p:	0	
Motor ID:	1			Test Number:	6		Start Ca	310:	0µfd	
Poles:	4			Poles:	4			1		
Volts:	115/208-230			Volts:	115		Tested:		3/2/2012 2:24	1.31 DN
		,								
Frequency:	60			Hz:	60		Tested		Sharp, Gerald	ı
HP:	1			Rotation:			Gear Ra		1:1	
Speed:	1725			Special Cond:	2 Line		Bearing	Friction:	-0.96 Oz-Ft	
Phase:	1			Speed Conn:			Windag	ge Torque:	: -3.20 Oz-Ft	
Protector:	CEJ51 CX			TestBoard:	Amtps P	erformance	Fixture #1			
Special Points	Vline(V)	Iline (A)	Watts	RPM Tq	(Oz-ft)	HP	Eff(%)	PF(%)		
	115.0	9.66	234	1791	0.0	0.000	0.0	21.1		
	115.0	10.21	551	1773	18.1	0.382	51.8	46.9		
	115.0	11.82	872	1755	35.5	0.742	63.5	64.1		
48.7 OZ-FT	115.0	13.68	1139	1738	48.7	1.008	66.0	72.4		
L HP	115.0	13.62	1131	1739	48.3	1.000	66.0	72.2		
L.15 HP	115.0 115.0	13.98	1180 <b>1292</b>	1735 <b>1728</b>	51.0 55.9	1.054	66.6 <b>66.4</b>	73.4 <b>75.6</b>		
L725 RPM	115.0	14.85 15.24	1341	1725	58.1	1.150 1.192	66.3	76.5		
0.87 OZ-FT	115.0	15.79	1407	1720	60.9	1.247	66.1	77.5		
.25 HP	115.0	15.82	1411	1720	61.0	1.250	66.1	77.5		
	115.0	16.46	1488	1715	64.3	1.312	65.8	78.6		
	115.0	19.14	1795	1693	76.2	1.535	63.8	81.5		
	115.0	21.87	2092	1671	86.5	1.720	61.3	83.2		
	115.0	24.66	2373	1646	94.5	1.851	58.2	83.7		
	115.0	27.43	2642	1619	101.4	1.953	55.1	83.8		
	115.0	30.26	2906	1590	105.9	2.004	51.4	83.5		
BDT OZ-FT	115.0 115.0	32.97 <b>35.14</b>	3152 <b>3336</b>	1558 <b>1532</b>	108.5 110.1	2.012 2.008	47.6 <b>44.9</b>	83.1 <b>82.6</b>		
3D1 02-F1	115.0	35.70	3383	1524	109.7	1.990	43.9	82.4		
	115.0	38.32	3598	1487	109.3	1.935	40.1	81.6		
	115.0	40.89	3793	1447	106.9	1.842	36.2	80.6		
	115.0	43.36	3971	1403	103.2	1.723	32.4	79.6		
	115.0	45.69	4127	1356	98.1	1.583	28.6	78.5		
	115.0	47.86	4278	1305	91.3	1.418	24.7	77.7		
	115.0	49.92	4399	1248	83.7	1.243	21.1	76.6		
	115.0 115.0	51.89 53.71	4507 4595	1188 1122	74.9 65.0	1.060 0.868	17.5 14.1	75.5 74.4		
	115.0	55.38	4661	1052	54.2	0.678	10.9	73.2		
	115.0	56.96	4719	976	41.0	0.477	7.5	72.0		
	115.0	58.57	4774	894	27.3	0.290	4.5	70.9		
	115.0	71.28	7690	835	201.0	1.998	19.4	93.8		
	115.0	70.61	7488	735	183.6	1.606	16.0	92.2		
	115.0	69.86	7363	629	175.2	1.313	13.3	91.7		
	115.0	69.84	7388	520	173.1	1.071	10.8	92.0		
	115.0	70.72	7500	401	169.5	0.810	8.1	92.2		
	115.0 115.0	71.32 71.77	7546 7568	278 151	159.3 158.2	0.528 0.284	5.2 2.8	92.0 91.7		
	113.0	, , ,	,500	101	100.2	0.204	2.0	21.7		
									DRAWING NO	PAGE 3

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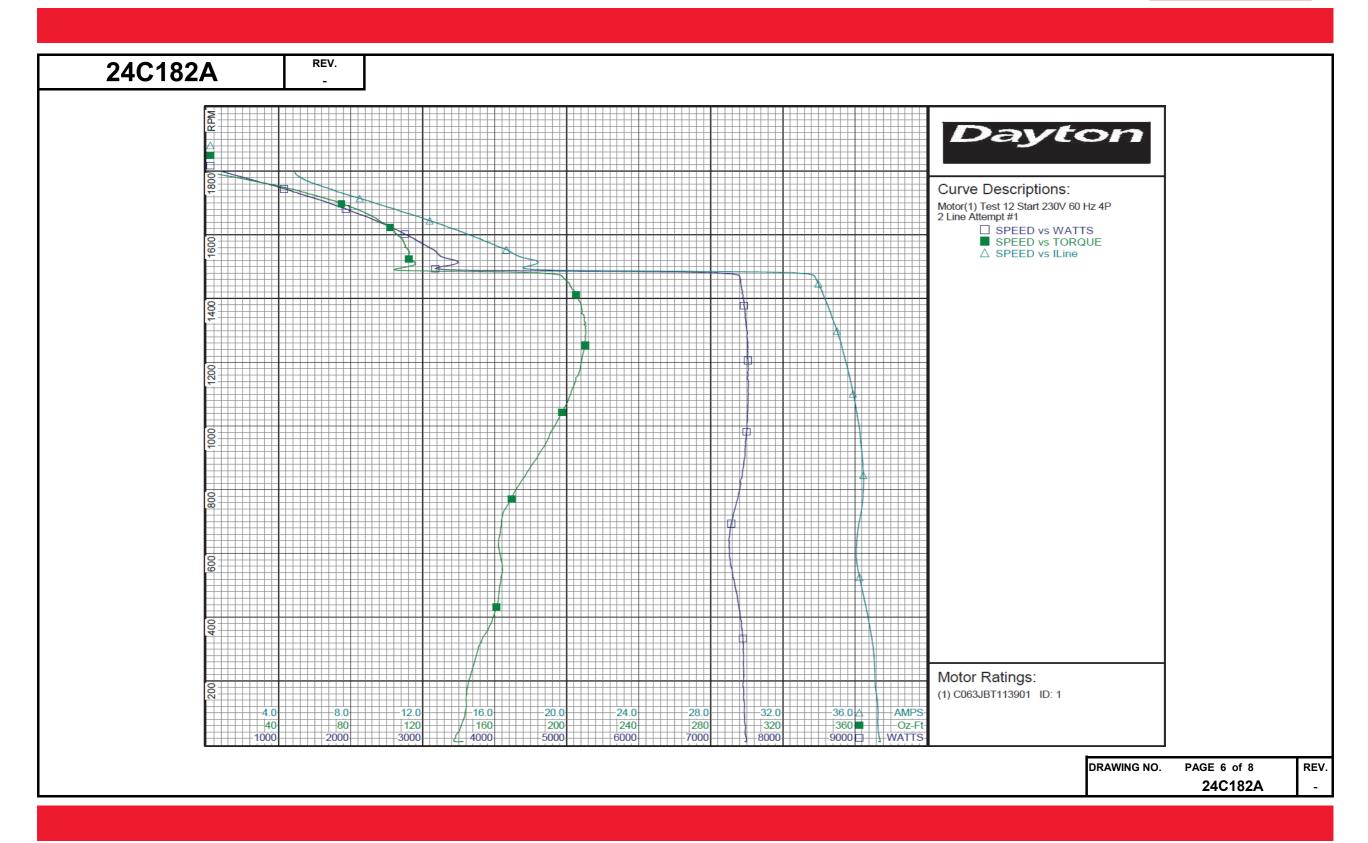






24C182A	REV.									
				Day	ton Ma	nufactu	ring Con	npany		
Motor Des	cription					Test Con	ditions			
Model:	C063JBT113	901		Test Type:	Start		Run Ca	ip:	0	
Motor ID:	1			Test Number:	12		Start C	ap:	0μfd	
Poles:	4			Poles:	4			1	•	
Volts:	115/208-230			Volts:	230		Tested		3/2/2012 1:44:	03 PM
Frequency:	60			Hz:	60		Tested		Sharp, Gerald	.05 1 101
HP:	1			Rotation:	00		Gear R	•	1:1	
	1725				2.7.					
Speed:	1725			Special Cond	: 2 Line				-1.12 Oz-Ft	
Phase:	1			Speed Conn:		_		ge Torque:	: -3.36 Oz-Ft	
Protector:	CEJ51 CX			TestBoard:	Amtps P	erformance	Fixture #1			
Special Points	Vline(V)	Iline(A)	Watts		(Oz-ft)	HP	Eff(%)	PF(%)		
	230.0	37.32	7474	10	142.3	0.016	0.2	87.1		
PUT OZ-FT	230.0 230.0	37.39	7494	14	137.1	0.024	0.2	87.1		
	230.0	37.28 37.11	7481 7457	56 214	141.1 146.4	0.095 0.372	0.9 3.7	87.2 87.4		
	230.0	36.86	7433	359	156.1	0.667	6.7	87.7		
	230.0	36.38	7341	491	162.5	0.949	9.6	87.7		
	230.0	36.08	7258	612	162.4	1.183	12.2	87.5		
	230.0	36.33	7311	725	164.5	1.418	14.5	87.5		
	230.0 230.0	36.48 36.38	7405 7473	828 925	174.8 185.9	1.723 2.046	17.4 20.4	88.3 89.3		
	230.0	36.19	7503	1013	194.5	2.345	23.3	90.2		
	230.0	35.93	7515	1094	201.6	2.625	26.1	90.9		
	230.0	35.64	7510	1168	206.8	2.876	28.6	91.6		
	230.0	35.33	7510	1236	209.3	3.080	30.6	92.4		
	230.0 230.0	35.02 34.66	7499 7474	1298 1354	210.4	3.250 3.349	32.3 33.4	93.1 93.8		
	230.0	34.29	7443	1404	205.8	3.440	34.5	94.4		
	230.0	33.94	7411	1451	201.0	3.470	34.9	94.9		
	230.0	25.07	5053	1486	127.2	2.249	33.2	87.6		
	230.0	18.07	3411	1522	113.0	2.047	44.8	82.0		
	230.0 230.0	16.36	3096	1559 1593	110.9	2.059	49.6 53.7	82.3		
	230.0	14.87 13.41	2825 2548	1624	107.2 101.7	2.034 1.966	57.6	82.6 82.6		
	230.0	12.01	2273	1651	94.1	1.850	60.7	82.3		
	230.0	10.61	1977	1677	85.0	1.696	64.0	81.0		
	230.0	9.30	1690	1700	73.8	1.493	65.9	79.0		
	230.0	8.05	1394	1721	61.6	1.262	67.5	75.3		
	230.0 230.0	6.92	1106 768	1743	47.8 30.9	0.993 0.649	66.9	69.5		
	230.0	5.81 5.10	449	1763 1784	12.4	0.264	63.1 43.8	57.5 38.3		
	230.0	4.89	216	1798	0.0	0.000	0.0	19.2		
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										24C182







REV.

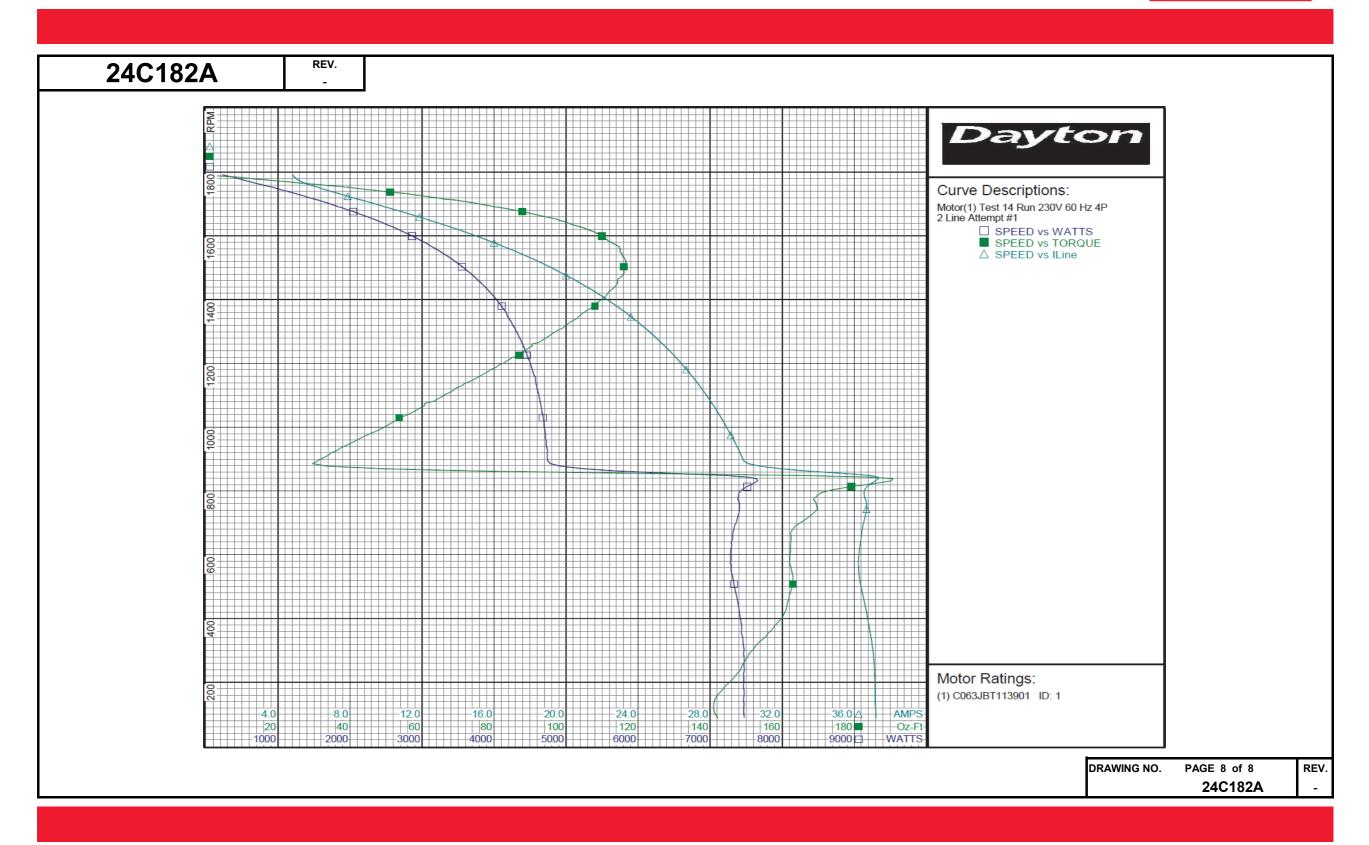
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#### **Dayton Manufacturing Company**

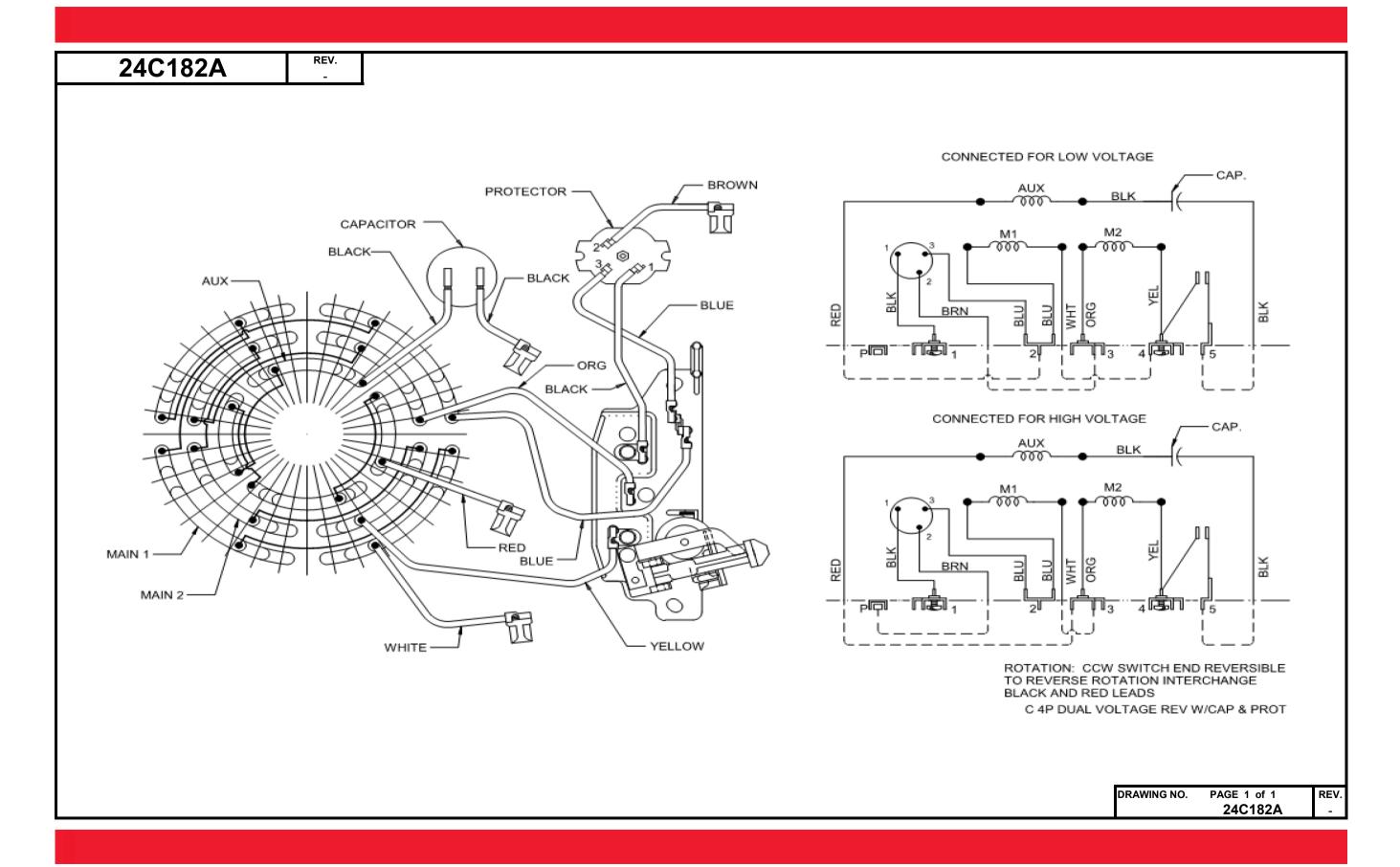
0 0μfd 3/2/2012 1:10:56 PM Sharp, Gerald 1:1 n: -1.12 Oz-Ft ie: -3.20 Oz-Ft
3/2/2012 1:10:56 PM Sharp, Gerald 1:1 n: -1.12 Oz-Ft ne: -3.20 Oz-Ft
3/2/2012 1:10:56 PM Sharp, Gerald 1:1 n: -1.12 Oz-Ft ne: -3.20 Oz-Ft
Sharp, Gerald 1:1 n: -1.12 Oz-Ft ne: -3.20 Oz-Ft
Sharp, Gerald 1:1 n: -1.12 Oz-Ft ne: -3.20 Oz-Ft
1:1 n: -1.12 Oz-Ft ne: -3.20 Oz-Ft
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ne: -3.20 Oz-Ft
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DRAWING NO. PAGE 7 of 8
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## **Wiring Diagram**





#### Dayton® BELT DRIVE FAN & **BLOWER MOTOR**

HP: 1 VOLTS: 115/208-230

RPM: 1725

SF: 1 15

DUTY: CONT

KVA CODE: K

ENCL: ODP

AMPS: 13 6/6 9-6 9

Part 24C182A HZ: 60

FR: 56H

INS CL: B

AMB: 40 °C

SFA: 14.9/7.7-7.4

**PH**· 1

Disconnect Power Before Making Any Electrical Conections or Changes CONNECTIONS 115 VOLTS

MOTOR IS CCW ROTATION LEAD END TO REVERSE ROTATION INTERCHANGE

RED AND BLACK LEADS



208 - 230 VOLTS





THERMALLY PROTECTED: AUTO MFG. NO. \_\_\_\_ PROT. CODE : \_\_\_\_00500\_ AVG. F.L.

MTR REF: C63CXHYS-1186

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

Made in Mexico