PRODUCT INFORMATION PACKET

Model No: 9433A
Catalog No: 9433A
Fan Coil & Air Conditioner Motor, 1/3,1/4,1/6 HP, 1 Ph, 60 Hz, 277 V, 1075 RPM, 3 Speed, 48 Frame, OPEN

Nameplate Specifications

Output HP	1/3,1/4,1/6 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	277 V
Current	1.9,1.4,0.9 A	Speed	1075 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	3

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Flexible Arms	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	10.24 in	Frame Length	4.13 in
Shaft Diameter	0.500 in	Shaft Extension	5.50 in
Connection Drawing	614131-351	Outline Drawing	F48Y93A01

GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

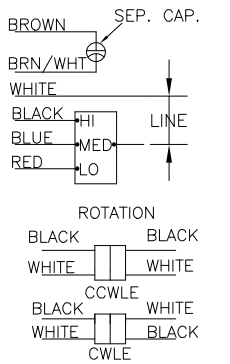
ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 036)

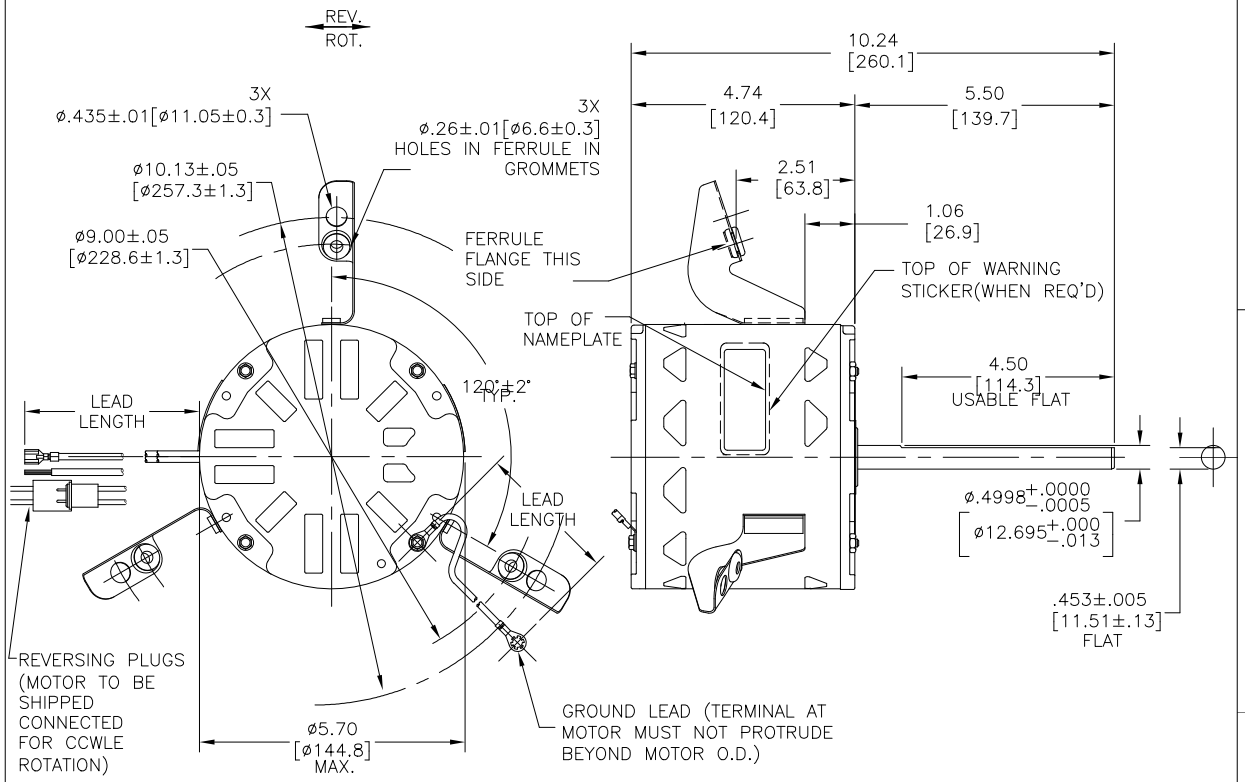
LEADS: NO. 18 GA., .06 [1.5] THK., 105°C. PVC INSUL.

REVERSING LEADS: NO. 18 GA., .03 [0.8] THK., 125°C. PVC INSUL.

GROUND LEAD: NO. 18 GA., .03 [.8] THK. GREEN/YELLOW INSUL.

NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48Y93A01 CUST. P/N: 9433A HP: 1/3,1/4,1/6 ROT.: REV. RPM: 1075/3 SPD. TYPE: UF FRAME: 48Y VOLTS: 277 PH: 1 AMPS: 1.9,1.4,0.9 HZ: 60 INS.: B AMB.: 40° C DUTY: AIR OVER CAP.: 7.5 MFD/370 V ENCL.: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED	 614131-351

PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT		CSA	
			FILE #	CCN #	FILE #	CLASS #
C32676A	36.68 OZ.FT	0603144B	E46412	PRGY2	LR43341	4211-01



COLOR	LENGTH	TERMINAL OR STRIP LENGTH
GREEN/YELLOW (GRD)	11.0/13.0 [279/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	24.0/26.0 [610/660]	.25[6.4] FEMALE SPADE
BROWN/WHITE	24.0/26.0 [610/660]	.25[6.4] FEMALE SPADE
RED	24.0/26.0 [610/660]	.50[12.7] SKIN
BLUE	24.0/26.0 [610/660]	.50[12.7] SKIN
WHITE	24.0/26.0 [610/660]	.50[12.7] SKIN
BLACK	24.0/26.0 [610/660]	.50[12.7] SKIN

LEAD DATA

MAIN FRAME – OLE	OPEN
END FRAME – OLE	OPEN
MAIN FRAME – LE	OPEN
END FRAME – LE	OPEN

ENCLOSURE

CUSTOMER	DISTRIBUTION

DRAWING REVISION	REVISION BY	DATE
H	TRSK	11/4/2022
ECO	APPROVED BY	DATE
ECR-0221991	TRSK	11/4/2022

ECO DESCRIPTION
OUTLINE UPDATED TO SHOW BALL BRG ES

DRAWN BY:	CADDIE
DATE:	04-05-2007
APPROVED BY:	–
DATE:	–
PROCESS/FINISH	–
THIRD ANGLE PROJECTION	

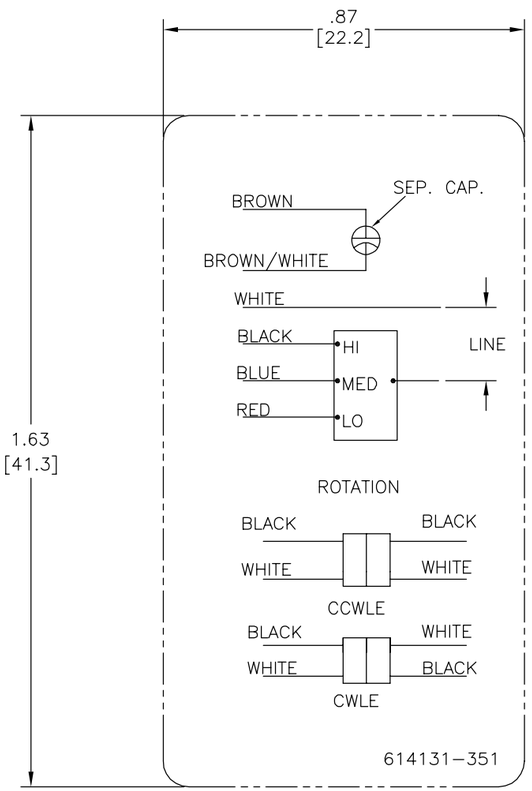
Regal Beloit America, Inc.

DESCRIPTION: MODEL-RFHP-48FR OUTLINE

MATERIAL: –

SIZE	DWG NO	SHEET
C	F48Y93A01	1

REV	ECO	REV BY	DATE	APPD	DATE
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



NOTES:

1. FOR USE WITH 614129 OR 2513020-001 NAMEPLATE BLANKS;
2. ———— INDICATES DIMENSION LIMITS

GEOMETRIC CHARACTERISTICS & SYMBOLS
- ▱ FLATNESS
- — STRAIGHTNESS
- ∠ ANGULARITY
- ⊥ PERPENDICULARITY (SQUARENESS)
- // PARALLELISM
- ○ ROUNDNESS (CIRCULARITY)
- ⌭ CYLINDRICITY
- ⌓ PROFILE OF ANY SURFACE
- ⌒ PROFILE OF ANY LINE
- ↗ RUNOUT
- ⌖ TRUE POSITION
- ◎ CONCENTRICITY
- ⌯ SYMMETRY

ASME Y14.5M 1994

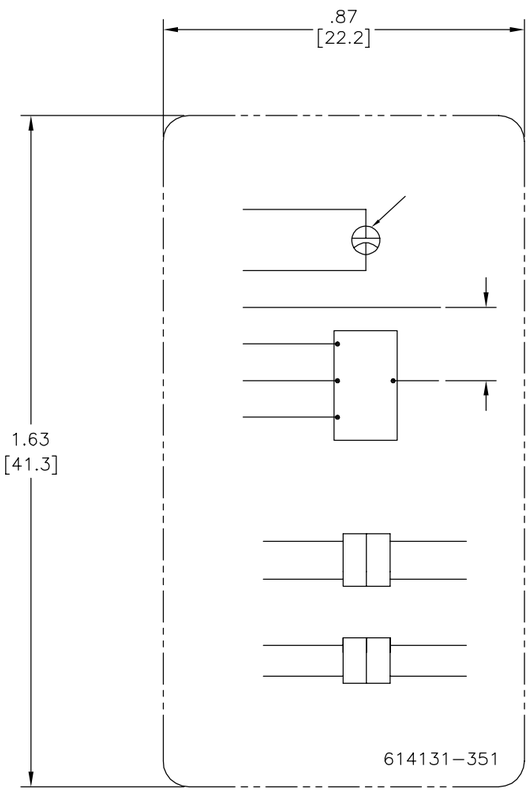
UNLESS OTHERWISE SPECIFIED
DIM. TOLERANCES ARE AS FOLLOWS:

	X	XX	XXX	XXXX
INCH	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 DEG
REMOVE BURRS & BREAK SHARP EDGES:
INCH .003-.015 mm 0.1-0.4
CORNER FILLETS TO:
INCH .020 mm 0.5
MACHINE SURFACES:
INCH 125 mm 3.2
METRIC DIMS. SHOWN IN [BRACKETS]

DR BY: YL	04-08-2011	REGAL REGAL-BELOIT CORPORATION
APPD: CZ	04-08-2011	DESCRIPTION: CONN DIAGRAM-NAMEPLATE
THIRD ANGLE PROJECTION	EDS DATE 11-11-2011	
	FORMAT REV H	
SIZE C	DWG NO 614131-351	
SCALE NONE		SHEET 1

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS
- PLANICIDAD
- RECTITUD
- ANGULARIDAD
- PERPENDICULARIDAD (A ESCUADRA)
- PARALELISMO
- REDONDEZ (CIRCULARIDAD)
- CILINDRICIDAD
- PERFIL DE CUALQUIER SUPERFICIE
- PERFIL DE CUALQUIER LINEA
- VARIACION
- POSICION REAL
- CONCENTRICIDAD
- SIMETRIA

ASME Y14.5M 1994

A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES:

	X	XX	XXX	XXXX
PULG	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 GRADOS
ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE.
PULG .003-.015 mm 0.1-0.4
FILETEAR ESQUINA: PULG .020 mm 0.5
MAQUINAR SUPERFICIES
PULG 125 mm 3.2
DIMS METRICAS MOSTRADAS [PARENTESIS]

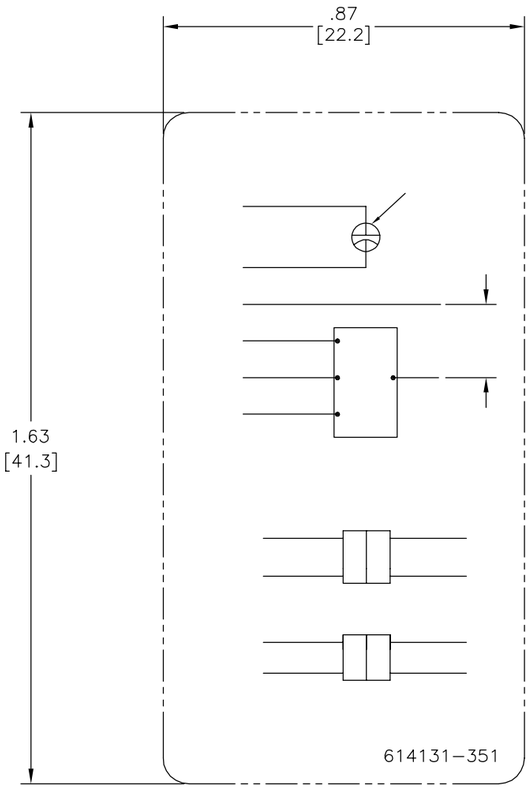
DIBUJADO POR: YL	04-08-2011
APROBADO POR: CZ	04-08-2011
TERCER ANGULO DE PROYECCION	FECHA EDS: 11-11-2011
	REV. FORMATO: H

REGAL **REGAL-BELOIT CORPORATION**

DESCRIPCION:
CONN DIAGRAM-NAMEPLATE

TAMAÑO: C	NUMERO DE DIBUJO: 614131-351	
ESCALA: NONE		HOJA: 1

版本	ECO	编制	日期	批准	日期
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



形位公差
- 平面度
- 直线度
- 倾斜度
- 垂直度
- 平行度
- 圆度
- 圆柱度
- 面轮廓度
- 线轮廓度
- 圆跳动
- 位置度
- 同轴度
- 对称度

ASME Y14.5M 1994

除另有注明
尺寸公差如下：

	X	XX	XXX	XXXX
英寸	±.1	±.02	±.005	±.0005
毫米	±0.5	±0.13	±0.013	

角度 ±.50 度
清理毛刺和尖棱
英寸 .003-.015 毫米 0.1-0.4
内圆角
英寸 .020 毫米 0.5
表面粗糙度
英制 125 米制 3.2
米制尺寸显示在[ ]

绘图: YL	04-08-2011	
批准: CZ	04-08-2011	
第三角投影	图纸格式发布日期	11-11-2011
	图纸格式版本	H

REGAL **REGAL-BELOIT CORPORATION**

名称 CONN DIAGRAM-NAMEPLATE

图幅	图号	
C	614131-351	
比例 NONE		页号 1

Performance Test Results For 0603144 (Medium Speed) 01-03-2007
07:56 am

TRACKING #: 10054401 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603144B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: TODD PHASES: 1 HP: 0.33
TORQUE CELL: 250-1 inlb VOLTS: 277.0 ROTATION: CCW
NP RPM: 1075 HERTZ: 60 BDT: 32.38
SPEEDS: 3 RUN CAP: 7.50 LRA: 2.83
MOTOR #: 1 COMMENT1: LRT: 8.65
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.194	25.697	@23.3 °C
After	49.691	26.071	@23.4 °C

Friction: -1.3145 ozft @ 200 RPM
Friction + Wind: -1.7259 ozft @ 1080 RPM
Inertia: 0.0204 ozft

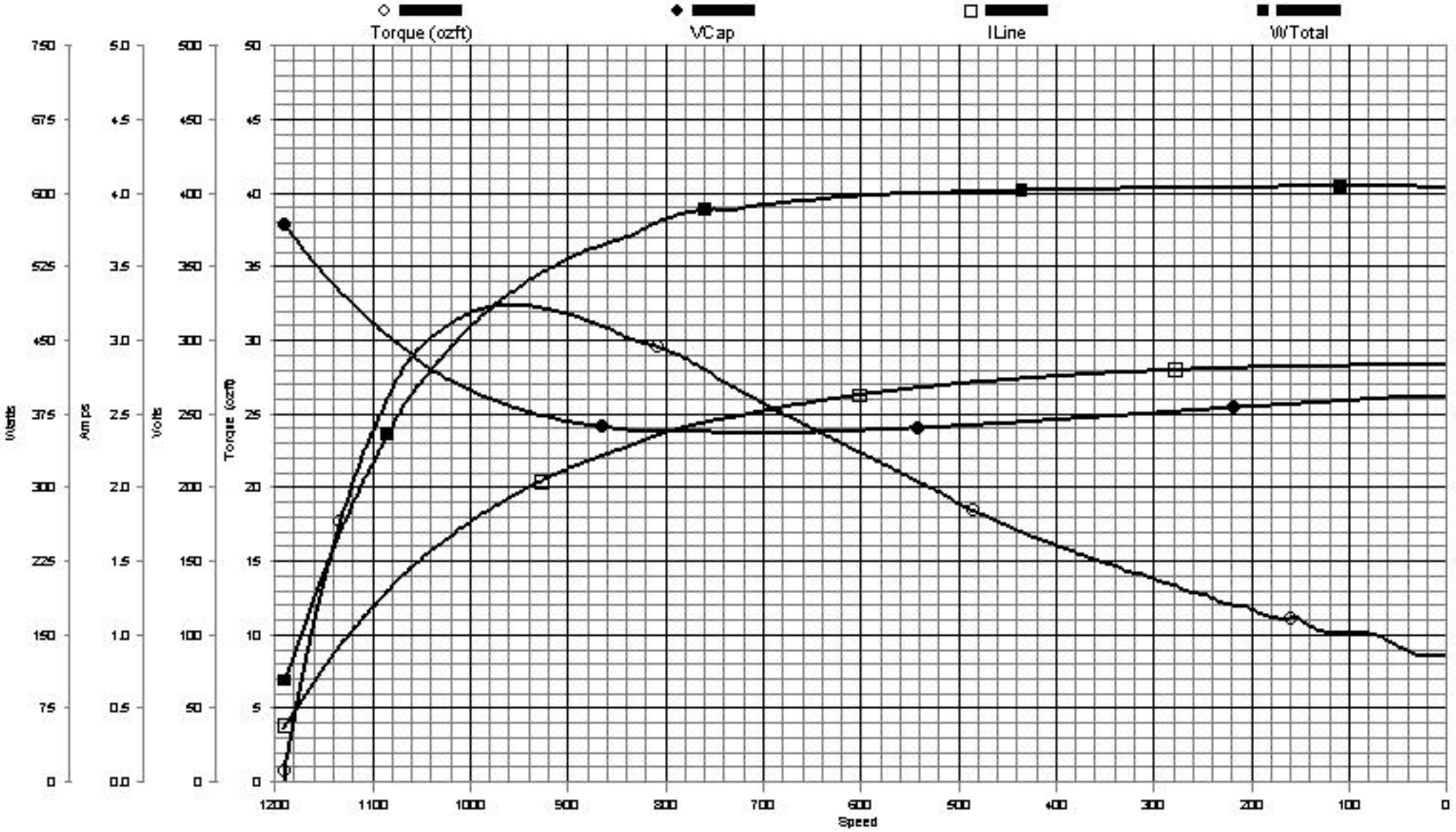
Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1190.3	277.3	379.1	258.6	0.37	0.92	1.08	100.5	0.0	0.0	98.0	0.00
NP+100	6.40	1175.0	276.5	365.3	252.2	0.53	0.82	1.04	145.8	66.7	45.8	99.5	0.09
NP+80	12.30	1155.0	276.8	349.5	243.6	0.73	0.78	1.00	200.4	126.1	62.9	99.2	0.17
NP+60	17.19	1135.0	277.0	334.9	235.0	0.91	0.82	0.95	249.5	173.1	69.4	99.0	0.23
NP-50*	19.34	1125.0	277.4	328.3	230.8	0.99	0.87	0.94	272.5	193.1	70.9	99.2	0.26
NP+40	21.30	1115.0	277.7	322.0	226.7	1.07	0.92	0.92	294.2	210.8	71.6	99.0	0.28
NP-25*	23.80	1100.0	277.7	312.6	220.1	1.18	1.01	0.89	323.7	232.3	71.8	98.8	0.31
NP+20	24.56	1095.0	277.8	309.6	218.0	1.22	1.05	0.88	333.3	238.7	71.6	98.3	0.32
NP	27.28	1075.0	278.4	298.8	209.7	1.36	1.19	0.85	370.6	260.2	70.2	97.9	0.35
NP-20	29.22	1055.0	278.1	288.3	201.0	1.49	1.33	0.82	401.1	273.6	68.2	96.8	0.37
NP+25*	29.56	1050.0	277.8	285.7	198.7	1.51	1.36	0.81	407.3	275.4	67.6	97.1	0.37
NP-40	30.38	1035.0	277.0	278.5	192.2	1.59	1.46	0.79	424.7	279.0	65.7	96.4	0.37
NP+50*	30.88	1025.0	277.0	274.6	188.4	1.64	1.52	0.78	436.6	280.9	64.3	96.1	0.38
NP-60	31.33	1015.0	277.1	271.1	184.8	1.69	1.58	0.77	448.0	282.2	63.0	95.7	0.38
NP-80	31.95	995.0	277.1	264.6	177.6	1.79	1.70	0.75	467.8	282.1	60.3	94.3	0.38
NP-100	32.29	975.0	277.0	259.1	170.7	1.87	1.81	0.74	485.0	279.4	57.6	93.6	0.37
MT	32.38	958.5	277.0	255.1	165.2	1.93	1.90	0.73	497.7	275.4	55.3	93.1	0.37
BDT	32.38	958.5	277.0	255.1	165.2	1.93	1.90	0.73	497.7	275.4	55.3	93.1	0.37
NP-200	31.23	875.0	276.6	241.8	141.3	2.19	2.26	0.69	543.0	242.5	44.7	89.6	0.33
NP-300	28.61	775.0	278.4	238.0	120.0	2.42	2.58	0.68	580.3	196.8	33.9	86.1	0.26
NP-400	24.86	675.0	277.2	236.9	102.4	2.55	2.78	0.67	590.5	148.9	25.2	83.5	0.20
HS	22.36	600.0	277.2	238.5	92.0	2.63	2.90	0.68	596.7	119.1	20.0	81.8	0.16
PUT	8.51	30.3	276.9	261.7	43.9	2.83	3.29	0.75	606.7	2.3	0.4	77.4	0.00
LR	8.65	0.0	276.9	261.7	43.5	2.83	3.29	0.75	605.7	0.0	0.0	77.3	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (Medium Speed) Wednesday, January 03, 2007 07:55 AM

C32676A



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 32.38
# SPEEDS: 3	RUN CAP: 7.50	LRA: 2.83
MOTOR #: 1	COMMENT1:	LRT: 8.65
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603144 (Low Speed) 01-03-2007
07:59 am

TRACKING #: 10054401 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603144B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: TODD PHASES: 1 HP: 0.33
TORQUE CELL: 250-1 inlb VOLTS: 277.0 ROTATION: CCW
NP RPM: 1075 HERTZ: 60 BDT: 20.49
SPEEDS: 3 RUN CAP: 7.50 LRA: 1.82
MOTOR #: 1 COMMENT1: LRT: 5.33
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.331	41.980	@23.6 °C
After	49.614	42.309	@23.6 °C

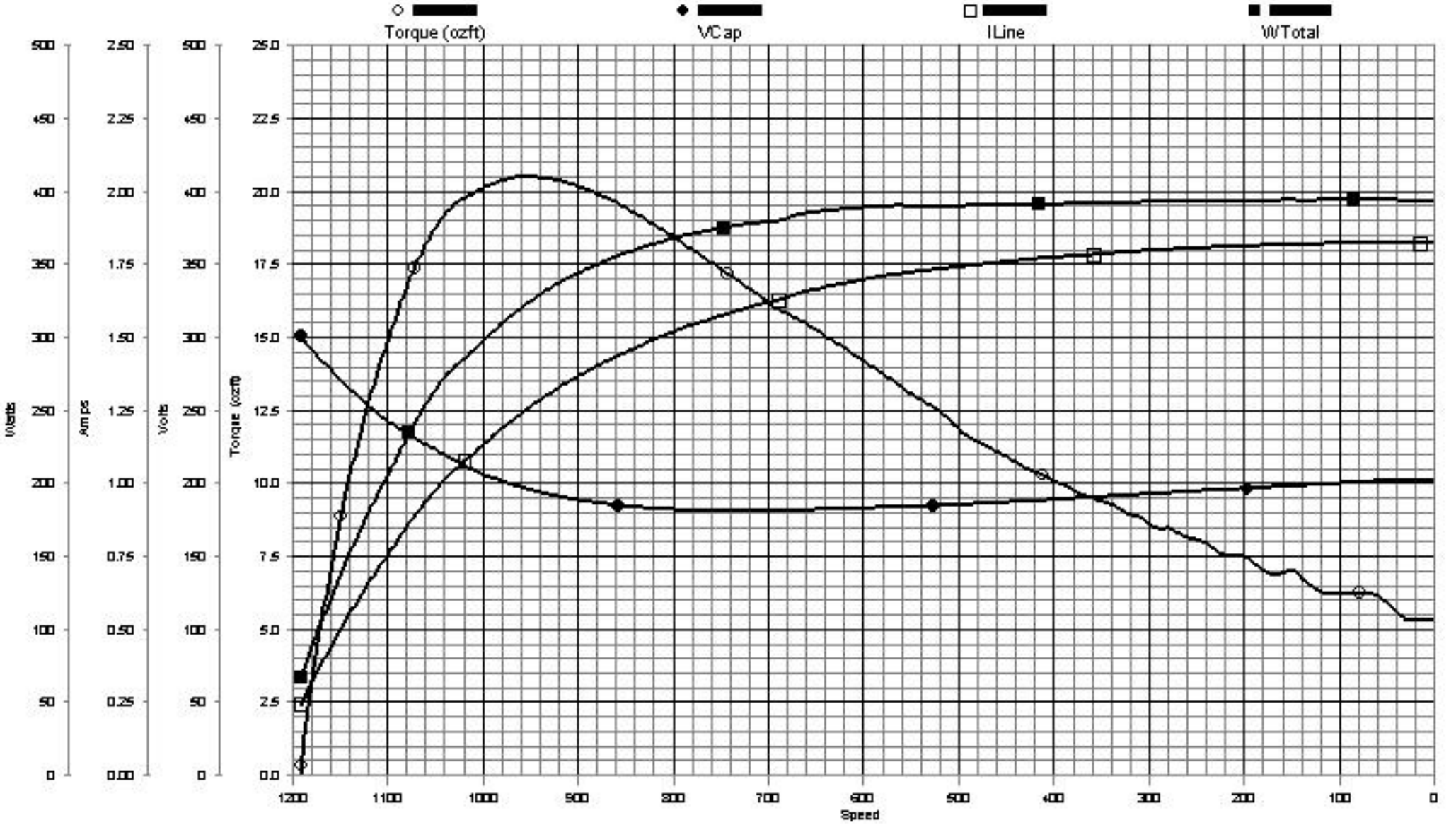
Friction: -1.3145 ozft @ 200 RPM
Friction + Wind: -1.7259 ozft @ 1080 RPM
Inertia: 0.0204 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1190.2	276.9	300.7	219.8	0.24	0.72	0.86	66.2	0.0	0.0	99.6	0.00
NP+100	4.09	1175.0	276.9	289.2	216.2	0.34	0.64	0.82	94.8	42.6	45.0	100.0	0.06
NP+80	7.85	1155.0	276.6	275.2	211.3	0.46	0.59	0.78	128.1	80.5	62.8	100.0	0.11
NP+60	10.86	1135.0	276.3	262.5	206.3	0.58	0.59	0.75	158.8	109.4	68.9	99.1	0.15
NP-50*	12.16	1125.0	276.2	256.6	203.7	0.63	0.61	0.73	172.9	121.4	70.2	99.4	0.16
NP+40	13.33	1115.0	275.9	250.9	201.1	0.68	0.63	0.72	186.1	131.9	70.9	99.2	0.18
NP-25*	14.84	1100.0	275.9	243.2	197.3	0.75	0.68	0.69	204.9	144.9	70.7	99.0	0.19
NP+20	15.32	1095.0	276.2	241.0	196.3	0.78	0.69	0.69	211.3	148.9	70.5	98.1	0.20
NP	17.12	1075.0	277.9	233.0	192.4	0.87	0.78	0.66	237.0	163.3	68.9	98.0	0.22
NP-20	18.45	1055.0	278.5	225.1	187.9	0.96	0.86	0.64	258.4	172.7	66.8	96.6	0.23
NP+25*	18.73	1050.0	278.7	223.4	186.8	0.97	0.89	0.64	263.3	174.5	66.3	97.4	0.23
NP-40	19.38	1035.0	278.7	218.0	183.3	1.03	0.95	0.62	276.1	178.0	64.5	96.2	0.24
NP+50*	19.65	1025.0	278.0	214.2	180.5	1.06	0.99	0.61	282.3	178.7	63.3	95.8	0.24
NP-60	19.84	1015.0	277.3	210.7	177.7	1.09	1.02	0.60	287.8	178.7	62.1	95.2	0.24
NP-80	20.19	995.0	277.1	205.2	173.2	1.14	1.10	0.58	300.3	178.3	59.4	95.1	0.24
NP-100	20.41	975.0	277.1	200.5	168.9	1.20	1.17	0.57	311.6	176.6	56.7	93.7	0.24
MT	20.49	957.8	277.1	197.0	165.3	1.24	1.23	0.56	320.3	174.2	54.4	93.2	0.23
BDT	20.49	957.8	277.1	197.0	165.3	1.24	1.23	0.56	320.3	174.2	54.4	93.2	0.23
NP-200	19.85	875.0	277.0	186.2	150.0	1.41	1.47	0.53	351.0	154.1	43.9	89.9	0.21
NP-300	17.92	775.0	276.9	181.2	135.1	1.55	1.68	0.52	371.2	123.2	33.2	86.5	0.17
NP-400	15.73	675.0	277.1	181.2	123.3	1.64	1.83	0.52	382.6	94.2	24.6	84.2	0.13
HS	14.21	600.0	277.7	182.8	116.4	1.70	1.92	0.52	388.7	75.7	19.5	82.3	0.10
PUT	5.32	31.0	276.9	202.1	79.6	1.82	2.20	0.58	393.5	1.5	0.4	78.1	0.00
LR	5.33	0.0	276.9	202.2	79.6	1.82	2.20	0.58	392.6	0.0	0.0	77.9	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (Low Speed) Wednesday, January 03, 2007 07:59 AM



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 20.49
# SPEEDS: 3	RUN CAP: 7.50	LRA: 1.82
MOTOR #: 1	COMMENT1:	LRT: 5.33
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603144 (High Speed) 01-03-2007
07:53 am

TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	BDT: 43.14
# SPEEDS: 3	RUN CAP: 7.50	LRA: 3.78
MOTOR #: 1	COMMENT1:	LRT: 11.42
COMMENT 2:	COMMENT 3:	COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.022	19.878	@22.7 °C
After	49.709	20.354	@23.0 °C

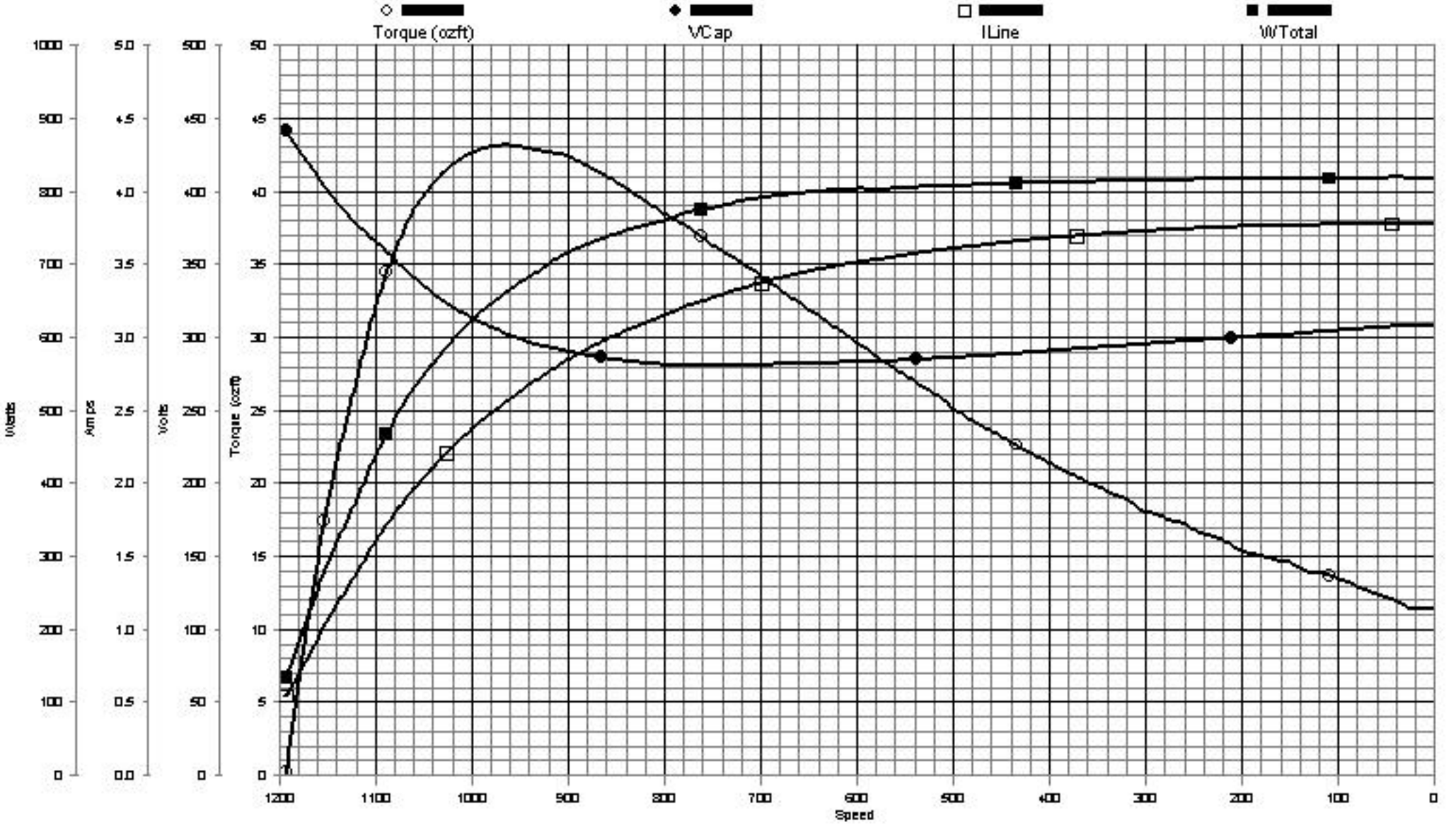
Friction: -1.3145 ozft @ 200 RPM
Friction + Wind: -1.7259 ozft @ 1080 RPM
Inertia: 0.0204 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1192.7	277.0	441.2	297.5	0.54	1.19	1.27	133.4	0.0	0.0	89.2	0.00
NP+100	8.62	1175.0	276.6	424.5	288.0	0.75	1.05	1.22	199.9	89.9	45.0	96.4	0.12
NP+80	16.56	1155.0	276.3	406.5	276.6	0.99	1.01	1.16	270.5	169.7	62.7	98.9	0.23
NP+60	22.97	1135.0	275.8	389.5	265.0	1.22	1.08	1.11	332.8	231.4	69.5	98.9	0.31
NP-50*	25.71	1125.0	275.7	381.6	259.2	1.33	1.15	1.09	362.2	256.7	70.9	98.8	0.34
NP+40	28.35	1115.0	276.3	375.0	254.0	1.44	1.23	1.07	392.0	280.5	71.6	98.5	0.38
NP-25*	32.06	1100.0	277.9	366.4	246.8	1.60	1.37	1.04	436.9	313.0	71.6	98.3	0.42
NP+20	33.14	1095.0	278.2	363.4	244.2	1.65	1.42	1.04	450.6	322.0	71.5	98.2	0.43
FL	34.02	1090.5	278.4	360.6	241.8	1.69	1.46	1.03	462.2	329.2	71.2	98.2	0.44
NP	36.68	1075.0	278.5	350.5	232.8	1.84	1.61	1.00	499.7	349.9	70.0	97.5	0.47
NP-20	39.27	1055.0	278.2	338.7	221.7	2.00	1.80	0.97	539.7	367.6	68.1	97.0	0.49
NP+25*	39.74	1050.0	277.9	335.8	218.9	2.04	1.84	0.96	548.2	370.3	67.5	96.7	0.50
NP-40	40.90	1035.0	277.3	327.9	210.9	2.14	1.97	0.94	571.9	375.6	65.7	96.4	0.50
NP+50*	41.53	1025.0	277.1	323.3	205.9	2.21	2.05	0.92	587.3	377.8	64.3	95.9	0.51
NP-60	42.06	1015.0	277.1	319.3	201.1	2.28	2.13	0.91	602.3	378.8	62.9	95.3	0.51
NP-80	42.75	995.0	277.1	312.1	192.0	2.40	2.29	0.89	628.9	377.5	60.0	94.6	0.51
NP-100	43.09	975.0	277.0	305.8	183.5	2.51	2.43	0.87	650.8	372.8	57.3	93.6	0.50
BDT	43.14	965.9	276.8	303.2	179.8	2.55	2.48	0.87	659.5	369.8	56.1	93.4	0.50
MT	43.14	965.9	276.8	303.2	179.8	2.55	2.48	0.87	659.5	369.8	56.1	93.4	0.50
NP-200	41.59	875.0	277.0	287.1	147.9	2.93	3.00	0.82	730.1	322.9	44.2	90.0	0.43
NP-300	37.57	775.0	277.1	281.1	122.3	3.22	3.39	0.80	770.9	258.4	33.5	86.4	0.35
NP-400	33.09	675.0	277.6	281.5	103.7	3.41	3.67	0.80	794.9	198.2	24.9	84.0	0.27
HS	29.70	600.0	277.5	283.0	92.8	3.51	3.82	0.81	803.2	158.1	19.7	82.5	0.21
LR	11.42	0.0	276.8	307.5	57.8	3.78	4.29	0.88	817.5	0.0	0.0	78.1	0.00
PUT	11.42	0.0	276.8	307.5	57.8	3.78	4.29	0.88	817.5	0.0	0.0	78.1	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (High Speed) Wednesday, January 03, 2007 07:53 AM



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 43.14
# SPEEDS: 3	RUN CAP: 7.50	LRA: 3.78
MOTOR #: 1	COMMENT1:	LRT: 11.42
COMMENT 2:	COMMENT 3:	COMMENT 4:

Manual Test Results For 0603144 (High Speed) 01-03-2007
07:48 am

TRACKING #:	10054401	CUSTOMER:	DISTRIBUTION SERVICES	DESCRIPTION:	IDLE
SBU:	Heating & Air Cond	MODEL:	0603144B	TYPE:	PSC
ENGINEER:	JAMES PENG	FRAME:	48	BENCH:	1
TECHNICIAN:	TODD	PHASES:	1	HP:	0.33
TORQUE CELL:	250-1 inlb	VOLTS:	277.0	ROTATION:	CCW
NP RPM:	1075	HERTZ:	60	BDT:	0.00
# SPEEDS:	3	RUN CAP:	7.50	LRA:	0.00
MOTOR #:	1	COMMENT1:		LRT:	0.00
COMMENT 2:		COMMENT 3:		COMMENT 4:	

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Results	48.777	19.780	@22.4 °C

VLine	VStart	VCap	ILine	IMain	IStart	WLine	TC01	TC02	TC03	TC04	Time
277.1	297.2	435.5	0.53	1.18	1.24	131.7	OPEN	OPEN	OPEN	OPEN	07:48:06 am
230.0	253.0	366.2	0.40	0.88	1.04	90.2	OPEN	OPEN	OPEN	OPEN	07:48:22 am

Performance Test Results For 0603144 (Medium Speed) 01-03-2007
08:13 am

TRACKING #: 10054401 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603144B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: TODD PHASES: 1 HP: 0.33
TORQUE CELL: 250-1 inlb VOLTS: 230.0 ROTATION: CCW
NP RPM: 1075 HERTZ: 60 BDT: 22.42
SPEEDS: 3 RUN CAP: 7.50 LRA: 2.33
MOTOR #: 1 COMMENT1: LRT: 5.71
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.092	25.637	@22.6 °C
After	49.449	25.891	@22.5 °C

Friction: -1.3043 ozft @ 200 RPM
Friction + Wind: -1.6365 ozft @ 1080 RPM
Inertia: 0.0207 ozft

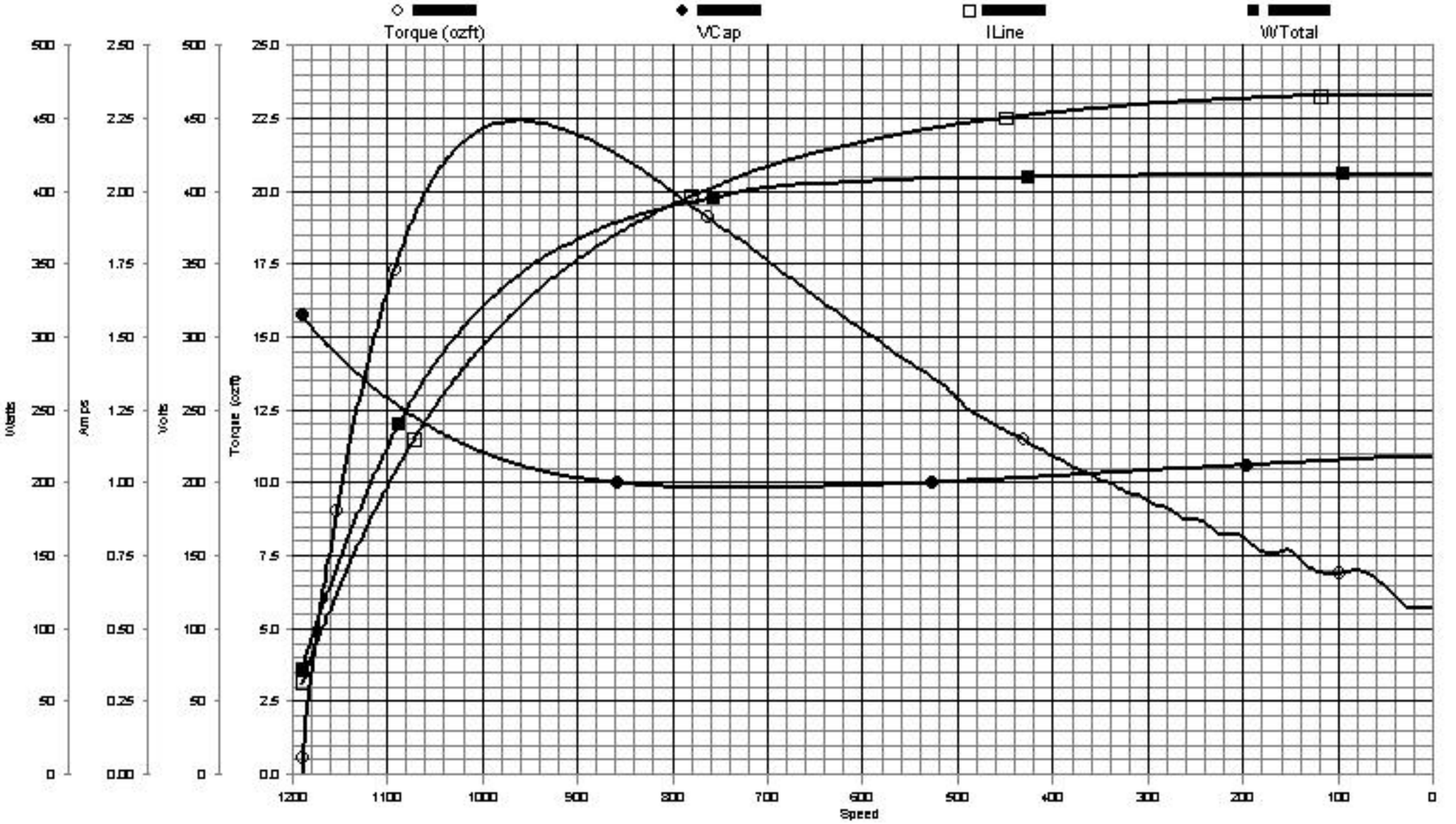
Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1189.6	230.2	315.4	216.6	0.31	0.73	0.90	70.8	0.0	0.0	99.2	0.00
NP+100	4.47	1175.0	229.8	304.3	211.2	0.44	0.66	0.87	100.4	46.6	46.4	99.3	0.06
NP+80	8.66	1155.0	229.6	290.1	203.1	0.60	0.63	0.83	138.1	88.8	64.3	100.0	0.12
NP+60	12.01	1135.0	229.5	277.3	195.3	0.75	0.67	0.79	171.9	121.0	70.4	99.9	0.16
NP-50*	13.47	1125.0	229.6	271.7	191.6	0.82	0.71	0.77	187.8	134.5	71.6	99.7	0.18
NP+40	14.78	1115.0	229.8	266.3	188.0	0.89	0.76	0.76	202.6	146.2	72.2	99.1	0.20
NP-25*	16.53	1100.0	230.0	258.7	182.6	0.98	0.84	0.74	223.6	161.4	72.2	99.2	0.22
NP+20	17.05	1095.0	230.1	256.3	180.9	1.02	0.87	0.73	230.3	165.7	71.9	98.1	0.22
NP	18.88	1075.0	230.5	247.2	173.8	1.13	0.99	0.70	255.2	180.1	70.6	98.0	0.24
NP-20	20.23	1055.0	230.5	238.7	166.5	1.23	1.10	0.68	276.3	189.4	68.5	97.5	0.25
NP+25*	20.50	1050.0	230.5	236.9	164.8	1.26	1.13	0.68	281.1	191.0	68.0	96.8	0.26
NP-40	21.18	1035.0	230.5	231.6	159.8	1.33	1.22	0.66	294.5	194.5	66.1	96.1	0.26
NP+50*	21.54	1025.0	230.4	228.3	156.5	1.37	1.27	0.65	302.5	195.9	64.8	95.8	0.26
NP-60	21.82	1015.0	230.3	225.2	153.4	1.41	1.32	0.64	309.9	196.5	63.4	95.4	0.26
NP-80	22.20	995.0	230.2	219.7	147.3	1.49	1.42	0.63	323.4	196.0	60.6	94.3	0.26
NP-100	22.35	975.0	230.1	215.0	141.5	1.55	1.51	0.61	335.1	193.4	57.7	94.0	0.26
MT	22.42	960.4	230.0	212.1	137.5	1.60	1.57	0.60	342.8	191.1	55.7	93.2	0.26
BDT	22.42	960.4	230.0	212.1	137.5	1.60	1.57	0.60	342.8	191.1	55.7	93.2	0.26
NP-200	21.58	875.0	229.9	201.0	117.0	1.82	1.88	0.57	374.2	167.6	44.8	89.4	0.22
NP-300	19.40	775.0	229.8	196.5	98.4	1.99	2.13	0.56	392.8	133.4	34.0	85.9	0.18
NP-400	17.02	675.0	230.3	196.9	84.4	2.11	2.31	0.56	403.9	101.9	25.2	83.1	0.14
HS	15.26	600.0	230.0	198.0	75.8	2.17	2.40	0.56	406.4	81.3	20.0	81.4	0.11
LR	5.71	0.0	229.9	217.6	35.8	2.33	2.71	0.62	410.7	0.0	0.0	76.7	0.00
PUT	5.71	0.0	229.9	217.6	35.8	2.33	2.71	0.62	410.7	0.0	0.0	76.7	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (Medium Speed) Wednesday, January 03, 2007 08:13 AM

C32676



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 22.42
# SPEEDS: 3	RUN CAP: 7.50	LRA: 2.33
MOTOR #: 1	COMMENT1:	LRT: 5.71
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603144 (Low Speed) 01-03-2007
08:10 am

TRACKING #: 10054401 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603144B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: TODD PHASES: 1 HP: 0.33
TORQUE CELL: 250-1 inlb VOLTS: 230.0 ROTATION: CCW
NP RPM: 1075 HERTZ: 60 BDT: 14.24
SPEEDS: 3 RUN CAP: 7.50 LRA: 1.51
MOTOR #: 1 COMMENT1: LRT: 4.01
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.030	41.726	@22.6 °C
After	48.939	41.978	@22.6 °C

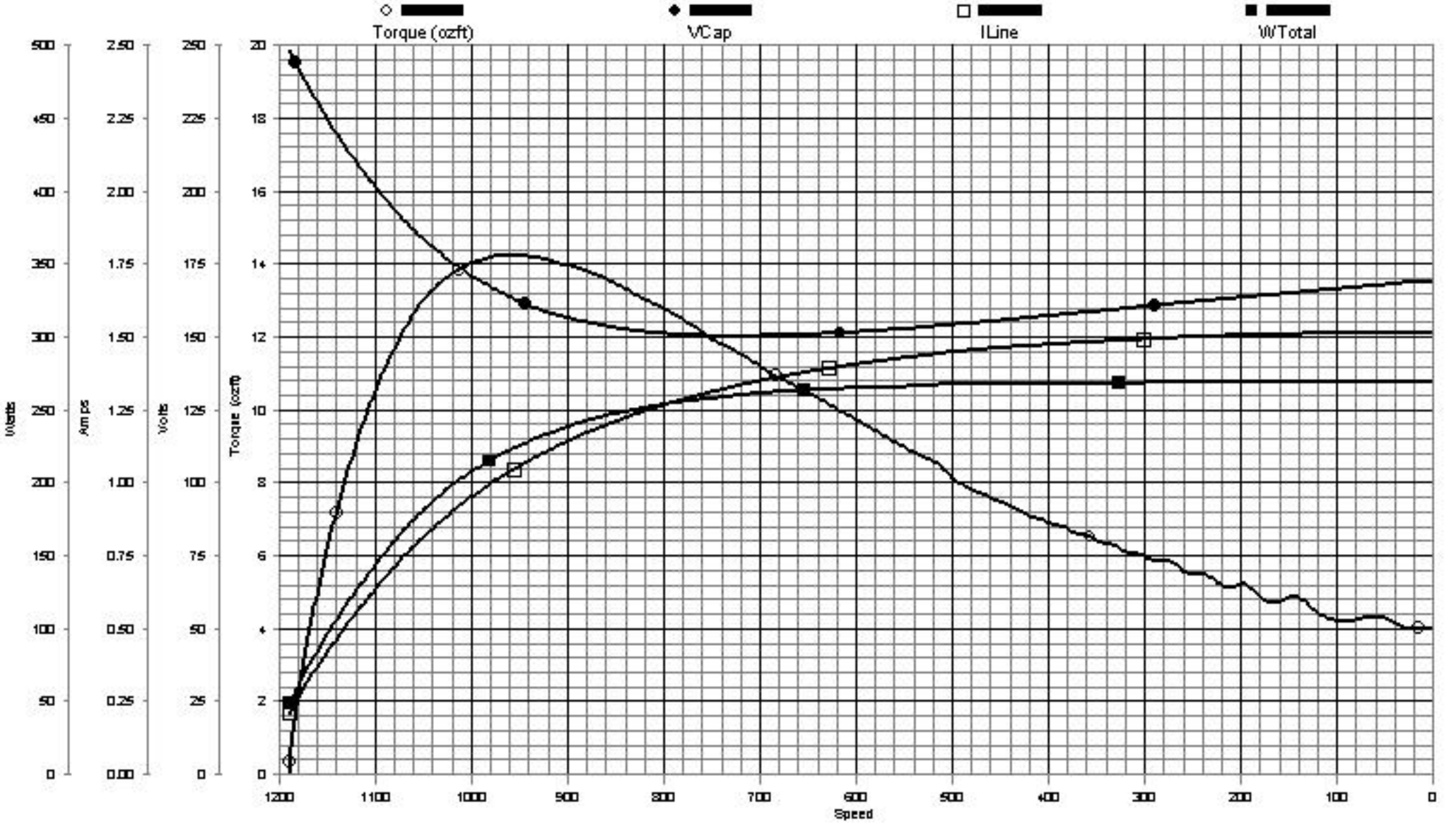
Friction: -1.3043 ozft @ 200 RPM
Friction + Wind: -1.6365 ozft @ 1080 RPM
Inertia: 0.0207 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1188.2	229.8	248.1	182.3	0.21	0.58	0.71	47.8	0.0	0.0	99.1	0.00
NP+100	2.97	1175.0	229.9	239.6	179.6	0.29	0.53	0.68	66.3	31.0	46.7	99.4	0.04
NP+80	5.62	1155.0	229.8	228.0	175.4	0.39	0.49	0.65	90.0	57.6	64.0	100.0	0.08
NP+60	7.69	1135.0	229.7	217.6	171.2	0.49	0.49	0.62	110.9	77.5	69.8	98.5	0.10
NP-50*	8.60	1125.0	229.7	212.8	169.1	0.53	0.51	0.61	120.7	85.9	71.1	99.1	0.12
NP+40	9.44	1115.0	229.6	208.2	166.9	0.57	0.53	0.59	130.0	93.4	71.8	99.3	0.13
NP-25*	10.52	1100.0	229.6	201.8	163.7	0.63	0.57	0.58	143.2	102.7	71.7	99.0	0.14
NP+20	10.83	1095.0	229.7	199.8	162.8	0.65	0.58	0.57	147.4	105.2	71.4	98.7	0.14
NP	11.92	1075.0	229.9	192.2	158.7	0.73	0.65	0.55	163.8	113.7	69.4	97.6	0.15
NP-20	12.81	1055.0	230.0	185.4	154.6	0.80	0.72	0.53	177.5	119.9	67.6	96.5	0.16
NP+25*	12.99	1050.0	230.0	183.9	153.6	0.81	0.74	0.52	180.6	121.0	67.0	96.9	0.16
NP-40	13.42	1035.0	230.3	179.7	150.8	0.86	0.79	0.51	189.8	123.3	64.9	95.8	0.17
NP+50*	13.63	1025.0	230.4	177.2	149.0	0.89	0.83	0.50	195.4	124.0	63.4	95.3	0.17
NP-60	13.80	1015.0	230.4	174.7	147.1	0.91	0.86	0.50	200.4	124.3	62.0	95.6	0.17
NP-80	14.05	995.0	230.4	170.2	143.4	0.96	0.93	0.48	209.5	124.1	59.2	94.7	0.17
NP-100	14.21	975.0	230.3	166.4	139.8	1.01	0.99	0.47	217.3	122.9	56.6	93.4	0.16
MT	14.24	962.1	230.3	164.2	137.5	1.03	1.02	0.47	221.7	121.6	54.8	93.5	0.16
BDT	14.24	962.1	230.3	164.2	137.5	1.03	1.02	0.47	221.7	121.6	54.8	93.5	0.16
NP-200	13.77	875.0	230.4	154.7	124.0	1.18	1.23	0.44	243.3	106.9	43.9	89.5	0.14
NP-300	12.40	775.0	230.0	150.6	111.6	1.29	1.41	0.43	256.0	85.3	33.3	86.3	0.11
NP-400	10.81	675.0	229.9	150.5	101.7	1.36	1.53	0.43	262.4	64.8	24.7	83.9	0.09
HS	9.75	600.0	229.9	151.6	95.6	1.41	1.60	0.43	264.9	51.9	19.6	81.7	0.07
LR	4.01	0.0	230.6	169.0	65.4	1.51	1.83	0.48	270.3	0.0	0.0	77.6	0.00
PUT	4.01	0.0	230.6	169.0	65.4	1.51	1.83	0.48	270.3	0.0	0.0	77.6	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (Low Speed) Wednesday, January 03, 2007 08:10 AM



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 14.24
# SPEEDS: 3	RUN CAP: 7.50	LRA: 1.51
MOTOR #: 1	COMMENT1:	LRT: 4.01
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603144 (High Speed) 01-03-2007
08:19 am

TRACKING #: 10054401 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603144B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: TODD PHASES: 1 HP: 0.33
TORQUE CELL: 250-1 inlb VOLTS: 230.0 ROTATION: CCW
NP RPM: 1075 HERTZ: 60 BDT: 29.80
SPEEDS: 3 RUN CAP: 7.50 LRA: 3.08
MOTOR #: 1 COMMENT1: LRT: 8.04
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	49.092	19.905	@22.5 °C
After	49.601	20.221	@22.5 °C

Friction: -1.3043 ozft @ 200 RPM
Friction + Wind: -1.6365 ozft @ 1080 RPM
Inertia: 0.0207 ozft

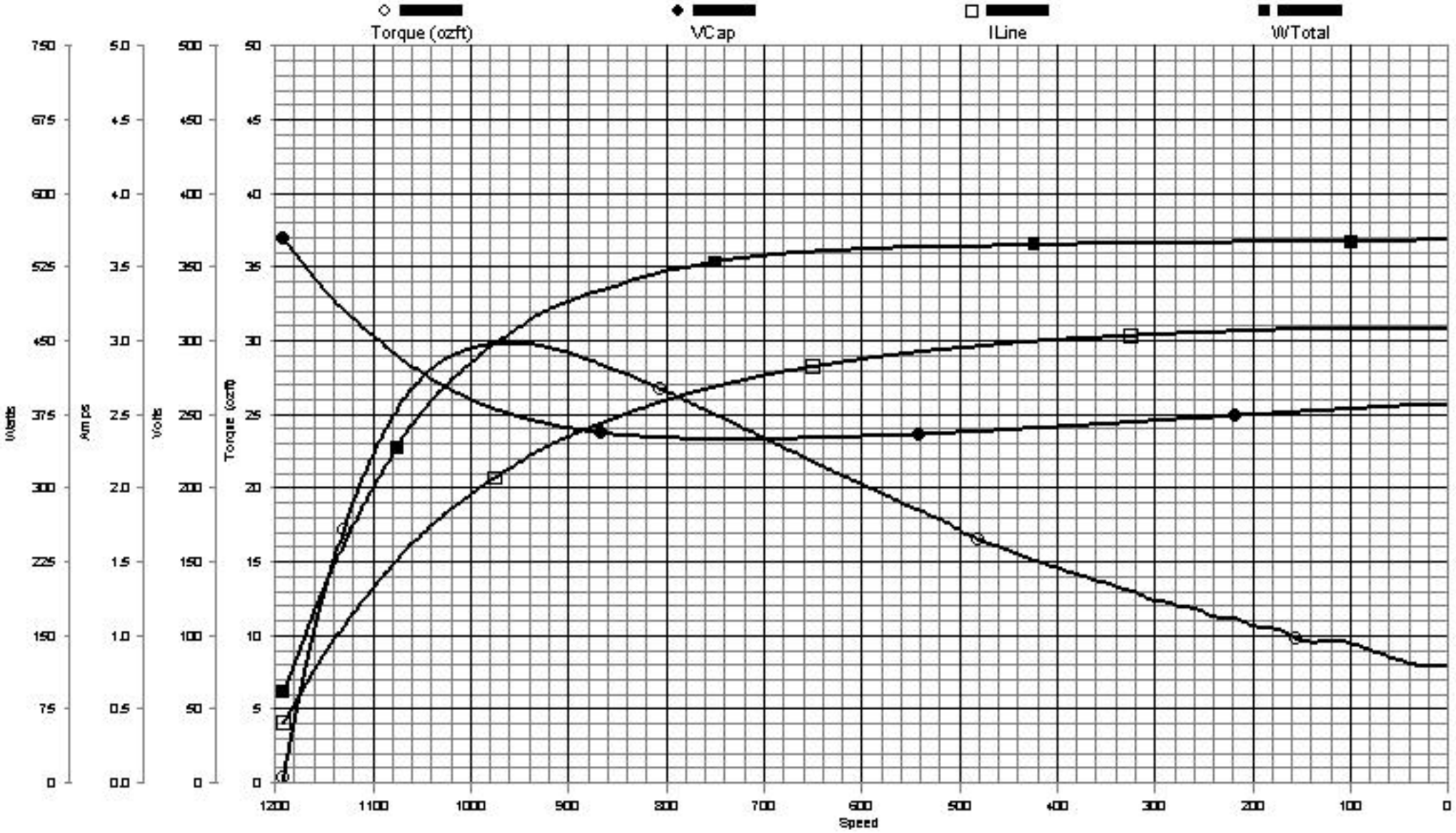
Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1191.2	229.9	369.5	253.1	0.40	0.87	1.06	90.9	0.0	0.0	98.8	0.00
NP+100	6.11	1175.0	229.7	355.5	244.4	0.59	0.78	1.02	135.9	63.7	46.9	100.0	0.09
NP+80	11.65	1155.0	229.4	339.3	233.5	0.81	0.77	0.97	186.4	119.4	64.1	100.0	0.16
NP+60	16.13	1135.0	229.3	324.8	222.9	1.01	0.85	0.93	230.9	162.5	70.4	99.7	0.22
NP-50*	18.11	1125.0	229.5	318.5	218.1	1.10	0.92	0.91	251.7	180.8	71.8	99.7	0.24
NP+40	19.91	1115.0	229.9	312.4	213.3	1.19	0.99	0.89	271.5	197.0	72.6	99.2	0.26
NP-25*	22.25	1100.0	230.1	303.8	206.2	1.32	1.11	0.87	299.4	217.2	72.5	98.6	0.29
NP+20	22.94	1095.0	230.2	301.1	203.8	1.36	1.15	0.86	308.2	222.9	72.3	98.4	0.30
NP	25.33	1075.0	230.5	290.3	194.1	1.51	1.31	0.83	341.7	241.6	70.7	98.2	0.32
NP-20	27.10	1055.0	230.5	280.8	184.8	1.65	1.47	0.80	370.3	253.7	68.5	97.4	0.34
NP+25*	27.45	1050.0	230.5	278.6	182.6	1.68	1.51	0.79	376.6	255.8	67.9	97.3	0.34
NP-40	28.33	1035.0	230.3	272.5	176.1	1.77	1.62	0.78	393.8	260.2	66.1	96.6	0.35
NP+50*	28.76	1025.0	230.3	268.7	171.9	1.83	1.69	0.77	404.1	261.6	64.7	95.9	0.35
NP-60	29.10	1015.0	230.2	265.2	167.8	1.88	1.75	0.76	413.8	262.1	63.3	95.6	0.35
NP-80	29.53	995.0	229.9	258.8	159.9	1.98	1.88	0.74	431.1	260.7	60.5	94.7	0.35
NP-100	29.75	975.0	229.9	253.7	152.8	2.07	2.00	0.72	446.4	257.4	57.7	93.8	0.35
MT	29.80	960.8	229.8	250.5	148.0	2.13	2.08	0.71	456.3	254.1	55.7	93.2	0.34
BDT	29.80	960.8	229.8	250.5	148.0	2.13	2.08	0.71	456.3	254.1	55.7	93.2	0.34
NP-200	28.60	875.0	229.8	238.0	122.9	2.41	2.47	0.68	498.5	222.1	44.5	90.0	0.30
NP-300	25.78	775.0	230.0	233.3	101.5	2.64	2.79	0.66	524.9	177.3	33.8	86.4	0.24
NP-400	22.60	675.0	230.2	233.5	86.0	2.79	3.01	0.66	538.4	135.4	25.1	83.8	0.18
HS	20.26	600.0	230.1	234.8	77.0	2.87	3.13	0.67	542.9	107.9	19.9	82.2	0.14
PUT	7.95	30.9	230.2	256.3	47.8	3.08	3.51	0.73	551.9	2.2	0.4	77.8	0.00
LR	8.04	0.0	230.6	256.9	47.8	3.08	3.51	0.73	554.1	0.0	0.0	78.0	0.00

LRA=LOCKED ROTOR AMPS BDT =BREAKDOWN TORQUE MT=MAX TORQUE
LRT=LOCKED ROTOR TORQUE NP RPM=NAMEPLATE RPM

Performance Test Project: 0603144 (High Speed) Wednesday, January 03, 2007 08:19 AM

C32676



TRACKING #: 10054401	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603144B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: TODD	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	EDT: 29.80
# SPEEDS: 3	RUN CAP: 7.50	LRA: 3.08
MOTOR #: 1	COMMENT1:	LRT: 8.04
COMMENT 2:	COMMENT 3:	COMMENT 4:

Specification & Rating Report

Item Number: **9433A**

Specification Number: **1**

Model Number:	**F48Y93A01**	Sample Number:	
Carton Label Model Number:		Customer Specification Number:	
Customer Model Number:		Catalog Number:	**9433A**
Agency Type:			
CE:	**N**	CE Number:	
CSA:	**Y**	CSA Number:	**NO**
UL:	**Y**	UL Number:	**NO**
UL Explosion Proof Rating:			
Cubic Feet Per Minute:			
F2 Assembly:			
UPC Model Number:	**786674011282**	UPC Catalog Number:	**786674011282**
Nameplate Drive Bearing Type:		Label Drive Bearing Type:	**BALL**
Nameplate Opposite Drive Bearing Type:		Label Opposite Drive Bearing Type:	**BALL**
Capacitor:		Capacitor Included:	**N**
Capacitor Rating MFD:	**7.5**	Capacitor Rating VAC:	**370**
Control Code:		Design Status:	
DC Design Number:		Features:	
Form Factor:			
Connection Diagram:		Installation Diagram:	
Lubrication Label Diagram:		Warning Label Diagram:	
Outline Diagram:	**F48Y93A01**	Outline Graphic:	**012A**
Ambient Temperature:	**40**	Insulation Class:	**B**

Specification & Rating Report

Protector:	**AUTOMATIC**	Thermal Protection:	
Nameplate Overload:		Label Overload:	
IP Code:			
Nameplate Enclosure:	**OPEN**	Label Enclosure:	**OPEN**
Frame Length:	**4.13**	Frame Length UOM:	
Frame Diameter:		Frame Diameter UOM:	
Frame Size:	**48Y**		
Frame Material:	**ROLLED STEEL**	End Frame Material:	
Operator Instruction Manual:			
Nameplate Mounting:		Label Mounting:	**FLEX ARMS**
Base Height:		Base Height UOM:	
Ring Diameter:		RingDiameterUOM:	
Nameplate:		Carton Label:	
Namplate Location Format:	**L**		
Brake:		Tachometer:	
Layer Quantity:		Pallet Quantity:	
Phase:	**1**	CurrentType:	
DC Pole:			
Poles:	**6**		
Speeds:	**3**		
Duty:	**AIR OVER**		
Shaft Diameter:	**.5**	Shaft Diameter UOM:	**IN**
Shaft Extension:	**5.50**	Shaft Extension UOM:	**IN**
Shaft Material:		Rotation:	**REVERSIBLE**
Shaft Type:	**FLAT**		
Motor Type:	**UF**		
Motor Use:			
Nameplate 1:			
Nameplate 2:			
Nameplate Text 1:			

Specification & Rating Report

Nameplate Text 2:	
Nameplate Text 3:	
Nameplate Text 4:	
Label Text 1:	**PERMANENT SPLIT CAPACITOR**
Label Text 2:	
Label Text 3:	**FLEXMOUNT BLOWER**
Label Text 4:	
Brand Line:	
Vendor Line:	

Motor Weight:		Motor Weight UOM:	
Shipping Weight:		Shipping Weight UOM:	
Armature Field Winding:			
Core Length:		Core Length UOM:	
Winding Code:		Winding Specification:	

Nameplate Only Instructions:	
Nameplate & Label Instructions:	
Label Only Instructions:	

Specification & Rating Report

Rating Number: **1**

Horsepower:	**1/3,1/4,1/6**	Customer Nameplate Number:	
Volts:	**277**	Kilowatts:	
Hertz:	**60**	Amps:	**1.9,1.4,0.9**
Field Current:		Maximum Amps:	
Revolutions Per Minute:	**1075/3 SPD.**	Armature Current:	
Service Factor:	**1.0**	Power Factor:	
Service Factor Amps:		Service Factor Volts:	
NEMA Code:		NEMA Nominal Efficiency:	
NEMA Design:		NEMA Guaranteed Efficiency:	