PRODUCT INFORMATION PACKET

Model No: 9432A
Catalog No: 9432A
Fan Coil & Air Conditioner Motor, 1/4,1/6,1/8 HP, 1 Ph, 60 Hz, 277 V, 1075 RPM, 3 Speed, 48 Frame, OPEN

Nameplate Specifications

Output HP	1/4,1/6,1/8 Hp	Output KW	0.19 kW
Frequency	60 Hz	Voltage	277 V
Current	1.2, .75, .55 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	60 °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	Lug	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	9.74 in	Frame Length	3.63 in
Shaft Diameter	0.500 in	Shaft Extension	5.5 in
Outline Drawing	9432A-S01	Connection Drawing	614131-351

GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

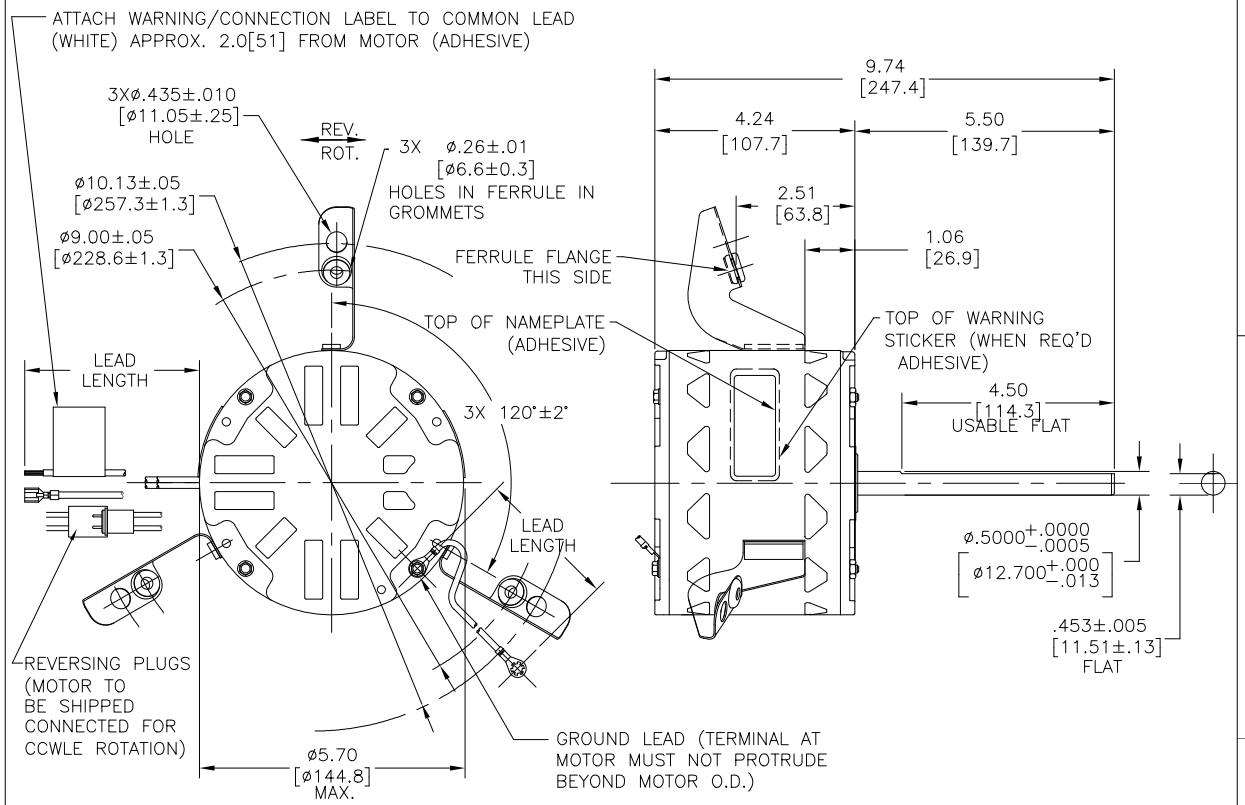
ELECTRICAL DATA:

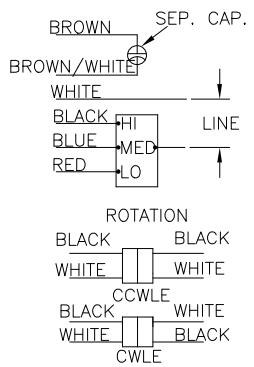
OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 036)

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

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

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



NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48Y94A01 CUST. P/N: 9432A HP: 1/4 1/6, 1/8 ROT.: REV. RPM: 1075/3 SPD. TYPE: UF FRAME: 48Y VOLTS: 277 PH: 1 AMPS: 1.2, 0.75, 0.55 HZ: 60 INS.: B AMB.: 60° C DUTY: AIR OVER CAP.: 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 #
C32683	22.1 OZ.FT	0603138B	E46412	PRGY2	LR43341	4211-01

LEAD DATA		
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 (MALE)
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG (FEMALE)
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

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

ENCLOSURE	
MAIN FRAME - OLE	OPEN
END FRAME - OLE	OPEN
MAIN FRAME - LE	OPEN
END FRAME - LE	OPEN

CUSTOMER	DISTRIBUTION SERVICE

DRAWING REVISION	REVISION BY	DATE
E	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:	B.Z
DATE:	04-19-2011
APPROVED BY:	C.Z
DATE:	04-19-2011
PROCESS/FINISH	-
THIRD ANGLE PROJECTION	

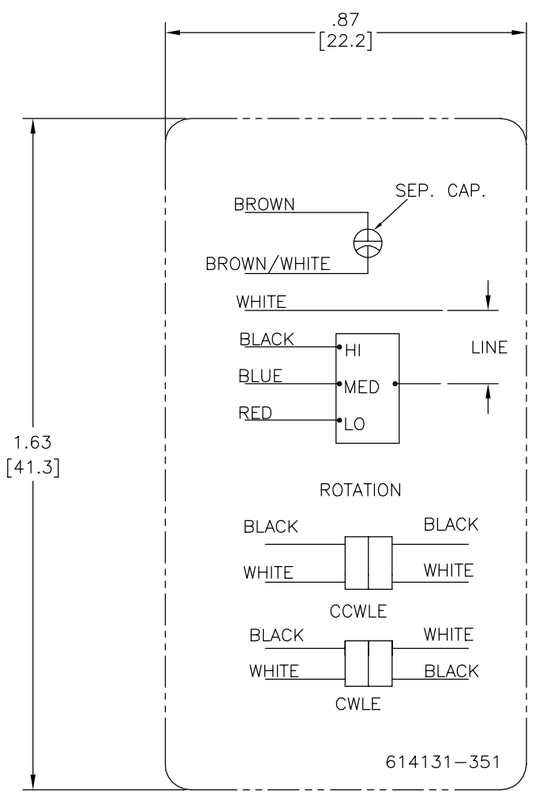
Regal Beloit America, Inc.

DESCRIPTION: MODEL-RFHP-48FR OUTLINE

MATERIAL: -

SIZE	DWG NO	SHEET
C	9432A	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]

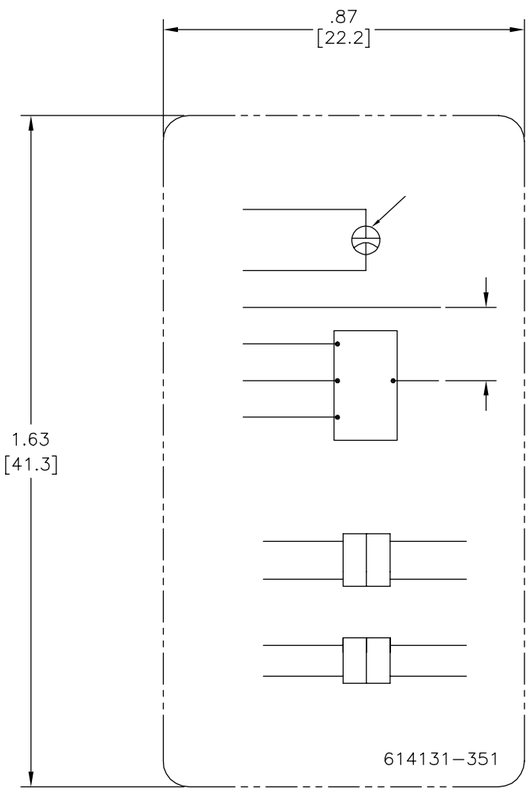
DR BY: YL	04-08-2011
APPD: CZ	04-08-2011
THIRD ANGLE PROJECTION	EDS DATE 11-11-2011
	FORMAT REV H

REGAL **REGAL-BELOIT CORPORATION**

DESCRIPTION
CONN DIAGRAM-NAMEPLATE

SIZE	DWG NO	
C	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]

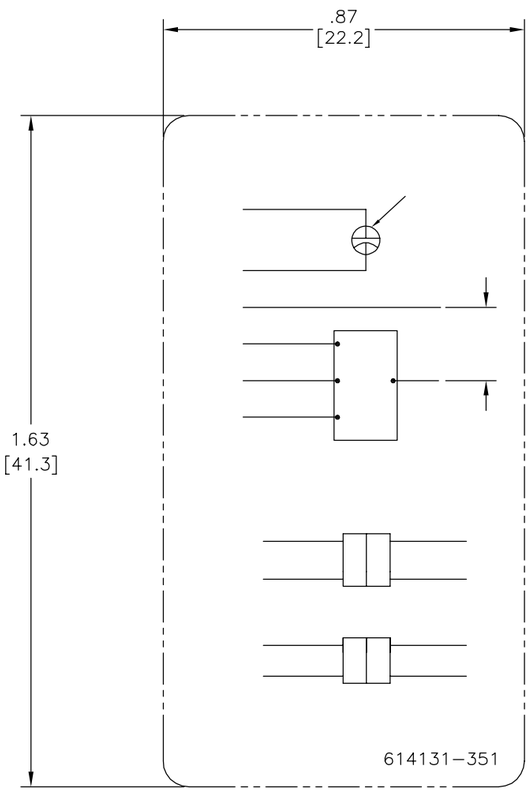
DIBUJADO POR: YL	04-08-2011
APROBADO POR: CZ	04-08-2011
TERCER ANGULO DE PROYECCION	FECHA EDS: 11-11-2011
	REV. FORMATO: H

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 C | 图号 614131-351

比例 NONE | 页号 1

Performance Test Results For 0603138 (Medium Speed) 12-19-2006 06:03 am

TRACKING #: 10053995 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603138B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: DAN THOMPSON PHASES: 1 HP: 0.25
TORQUE CELL: 250-1 inlb VOLTS: 277.0 ROTATION: CW
NP RPM: 1075 HERTZ: 60 BDT: 16.77
SPEEDS: 3 RUN CAP: 5.00 LRA: 1.50
MOTOR #: 1 COMMENT1: LRT: 4.02
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	81.283	55.188	@23.5 °C
After	81.722	55.607	@23.2 °C

Friction: -0.9735 ozft @ 200 RPM
Friction + Wind: -1.2822 ozft @ 1080 RPM
Inertia: 0.0179 ozft

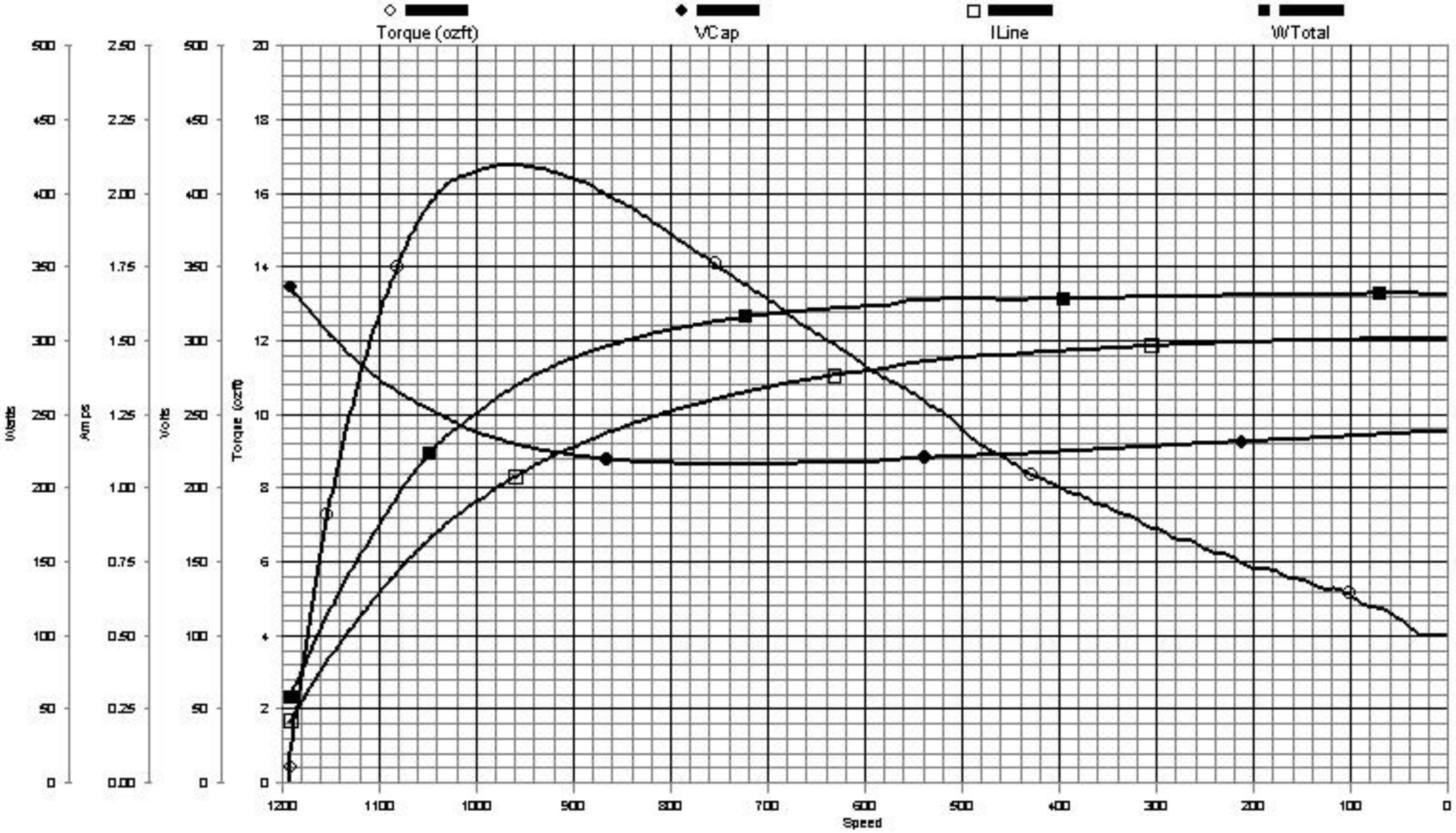
Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1191.9	277.1	336.4	219.1	0.21	0.55	0.64	56.7	0.0	0.0	97.4	0.00
NP+100	3.85	1175.0	276.8	323.4	213.8	0.30	0.49	0.61	83.4	40.1	48.1	100.0	0.05
NP+80	6.97	1155.0	276.6	308.3	206.8	0.40	0.47	0.59	111.1	71.4	64.3	100.0	0.10
NP+60	9.43	1135.0	276.4	294.6	199.7	0.49	0.49	0.56	136.2	95.0	69.7	100.0	0.13
NP-50*	10.49	1125.0	276.3	288.2	196.2	0.54	0.51	0.55	147.7	104.7	70.9	99.0	0.14
NP+40	11.44	1115.0	276.1	282.1	192.6	0.58	0.54	0.54	158.7	113.2	71.3	99.1	0.15
NP-25*	12.67	1100.0	276.1	274.0	187.5	0.64	0.58	0.52	174.3	123.7	71.0	98.6	0.17
NP+20	13.04	1095.0	276.3	271.7	185.9	0.66	0.60	0.52	179.5	126.7	70.6	98.4	0.17
NP	14.40	1075.0	277.7	263.5	180.3	0.74	0.68	0.50	200.3	137.4	68.6	97.5	0.18
NP-20	15.42	1055.0	278.4	255.9	174.2	0.81	0.75	0.49	217.9	144.4	66.3	96.6	0.19
NP+25*	15.62	1050.0	278.5	254.2	172.8	0.82	0.77	0.48	221.8	145.5	65.6	97.1	0.20
NP-40	16.10	1035.0	278.6	249.1	168.2	0.86	0.82	0.47	232.4	147.9	63.6	97.0	0.20
NP+50*	16.33	1025.0	278.3	245.7	165.1	0.89	0.86	0.47	238.4	148.5	62.3	96.3	0.20
NP-60	16.44	1015.0	277.7	242.4	161.9	0.92	0.89	0.46	243.4	148.1	60.8	95.3	0.20
NP-80	16.62	995.0	277.2	237.0	156.1	0.96	0.95	0.45	253.3	146.7	57.9	95.2	0.20
NP-100	16.76	975.0	277.2	232.7	150.9	1.01	1.01	0.44	262.7	145.0	55.2	93.8	0.19
MT	16.77	965.1	277.2	230.9	148.4	1.03	1.03	0.44	266.8	143.6	53.8	93.4	0.19
BDT	16.77	965.1	277.2	230.9	148.4	1.03	1.03	0.44	266.8	143.6	53.8	93.4	0.19
NP-200	16.12	875.0	277.2	220.1	128.5	1.17	1.24	0.42	293.9	125.2	42.6	90.6	0.17
NP-300	14.45	775.0	277.0	216.3	111.5	1.28	1.40	0.41	310.2	99.4	32.0	87.5	0.13
NP-400	12.65	675.0	276.9	216.5	98.2	1.36	1.51	0.41	319.2	75.8	23.7	84.8	0.10
HS	11.33	600.0	276.8	217.8	90.2	1.40	1.58	0.41	322.7	60.3	18.7	83.3	0.08
PUT	4.01	30.0	277.4	237.8	51.1	1.51	1.78	0.45	332.5	1.1	0.3	79.4	0.00
LR	4.02	0.0	277.1	237.6	51.1	1.50	1.78	0.45	331.5	0.0	0.0	79.8	0.00

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

Performance Test Project: 0603138 (Medium Speed) Tuesday, December 19, 2006 06:03 AM

C32683A



TRACKING #: 10053995
SBU: Heating & Air Cond
ENGINEER: JAMES PENG
TECHNICIAN: DAN THOMPSON
TORQUE CELL: 250-1 inlb
NP RPM: 1075
SPEEDS: 3
MOTOR #: 1
COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
MODEL: 0603138B
FRAME: 48
PHASES: 1
VOLTS: 277.0
HERTZ: 60
RUN CAP: 5.00
COMMENT1:
COMMENT 3:

DESCRIPTION: SYNC-0
TYPE: PSC
BENCH: 1
HP: 0.25
ROTATION: CW
EDT: 16.77
LRA: 1.50
LRT: 4.02
COMMENT 4:

Performance Test Results For 0603138 (Low Speed) 12-19-2006
06:06 am

TRACKING #: 10053995 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603138B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: DAN THOMPSON PHASES: 1 HP: 0.25
TORQUE CELL: 250-1 inlb VOLTS: 277.0 ROTATION: CW
NP RPM: 1075 HERTZ: 60 BDT: 12.90
SPEEDS: 3 RUN CAP: 5.00 LRA: 1.15
MOTOR #: 1 COMMENT1: LRT: 3.30
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	81.262	71.036	@23.2 °C
After	81.565	71.377	@23.1 °C

Friction: -1.0402 ozft @ 200 RPM
Friction + Wind: -1.2751 ozft @ 1080 RPM
Inertia: 0.0180 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1190.9	277.3	291.6	200.3	0.15	0.48	0.55	42.7	0.0	0.0	100.0	0.00
NP+100	2.91	1175.0	277.0	280.4	197.6	0.23	0.43	0.53	62.5	30.3	48.5	98.1	0.04
NP+80	5.31	1155.0	276.8	266.8	193.4	0.31	0.40	0.51	84.8	54.4	64.2	98.8	0.07
NP+60	7.20	1135.0	276.6	254.5	189.0	0.38	0.40	0.48	103.5	72.5	70.1	98.5	0.10
NP-50*	8.01	1125.0	276.5	248.8	186.8	0.41	0.41	0.47	112.0	80.0	71.4	98.8	0.11
NP+40	8.72	1115.0	276.4	243.5	184.6	0.44	0.43	0.46	120.2	86.3	71.8	98.8	0.12
NP-25*	9.61	1100.0	276.3	236.1	181.2	0.48	0.46	0.45	131.6	93.8	71.3	99.2	0.13
NP+20	9.89	1095.0	276.2	233.8	180.1	0.50	0.47	0.44	135.2	96.1	71.1	97.9	0.13
NP	10.89	1075.0	276.5	225.6	175.8	0.55	0.53	0.43	149.9	103.9	69.3	98.6	0.14
NP-20	11.70	1055.0	277.6	219.1	172.0	0.61	0.58	0.42	163.7	109.5	66.9	96.7	0.15
NP+25*	11.85	1050.0	277.8	217.6	171.0	0.62	0.59	0.41	166.8	110.4	66.2	96.8	0.15
NP-40	12.21	1035.0	277.8	213.1	167.8	0.65	0.63	0.40	174.8	112.1	64.2	96.8	0.15
NP+50*	12.42	1025.0	277.9	210.4	165.8	0.68	0.66	0.40	179.8	113.0	62.8	95.1	0.15
NP-60	12.61	1015.0	278.2	208.1	164.0	0.70	0.69	0.40	184.8	113.6	61.5	94.9	0.15
NP-80	12.84	995.0	278.3	203.6	160.1	0.73	0.73	0.39	193.3	113.4	58.7	95.1	0.15
BDT	12.90	980.0	277.9	200.4	157.0	0.76	0.77	0.38	198.3	112.2	56.6	93.9	0.15
MT	12.90	980.0	277.9	200.4	157.0	0.76	0.77	0.38	198.3	112.2	56.6	93.9	0.15
NP-100	12.89	975.0	277.7	199.3	156.0	0.77	0.78	0.38	199.7	111.5	55.8	93.4	0.15
NP-200	12.40	875.0	277.2	187.8	139.1	0.90	0.96	0.36	224.0	96.3	43.0	89.8	0.13
NP-300	11.16	775.0	277.2	184.5	126.1	0.98	1.09	0.35	237.1	76.8	32.4	87.3	0.10
NP-400	9.81	675.0	277.2	184.9	115.8	1.04	1.18	0.35	243.8	58.8	24.1	84.6	0.08
HS	8.78	600.0	277.1	186.2	109.5	1.07	1.24	0.35	246.3	46.7	19.0	83.1	0.06
LR	3.30	0.0	277.0	203.9	77.8	1.15	1.40	0.39	251.3	0.0	0.0	78.9	0.00
PUT	3.30	0.0	277.0	203.9	77.8	1.15	1.40	0.39	251.3	0.0	0.0	78.9	0.00

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

Performance Test Project: 0603138 (Low Speed) Tuesday, December 19, 2006 06:06 AM

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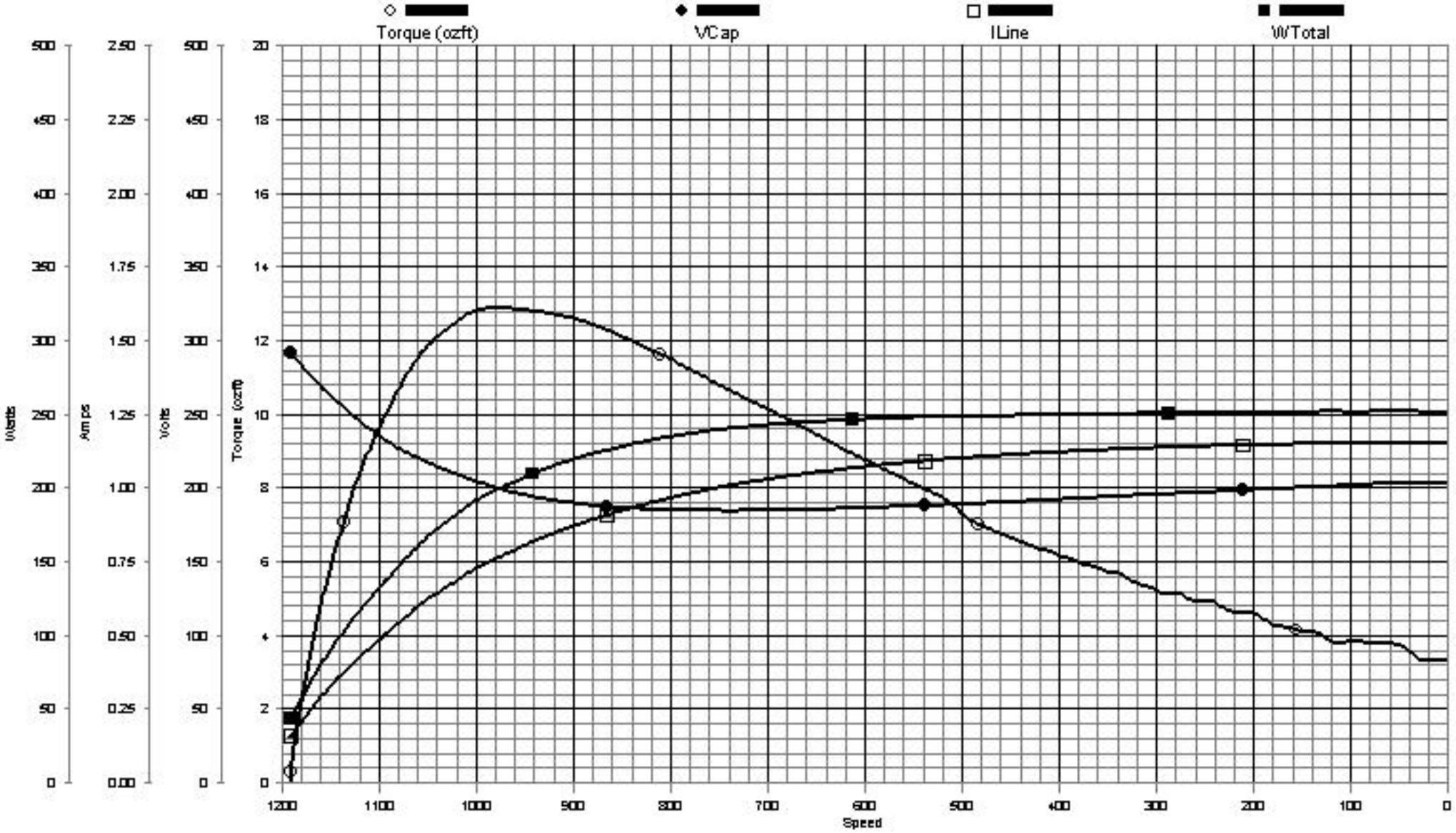

TRACKING #: 10053995	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603138B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.25
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CW
NP RPM: 1075	HERTZ: 60	EDT: 12.90
# SPEEDS: 3	RUN CAP: 5.00	LRA: 1.15
MOTOR #: 1	COMMENT1:	LRT: 3.30
COMMENT 2:	COMMENT 3:	COMMENT 4:

Manual Test Results For 0603138 (High Speed) 12-19-2006
05:53 am

TRACKING #:	10053995	CUSTOMER:	DISTRIBUTION SERVICES	DESCRIPTION:	IDLE
SBU:	Heating & Air Cond	MODEL:	0603138B	TYPE:	PSC
ENGINEER:	JAMES PENG	FRAME:	48	BENCH:	1
TECHNICIAN:	DAN THOMPSON	PHASES:	1	HP:	0.25
TORQUE CELL:	250-1 inlb	VOLTS:	277.0	ROTATION:	CW
NP RPM:	1075	HERTZ:	60	BDT:	0.00
# SPEEDS:	3	RUN CAP:	5.00	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	81.003	35.123	@23.6 °C

VLine	VStart	VCap	ILine	IMain	IStart	WLine	TC01	TC02	TC03	TC04	Time
277.2	267.0	416.0	0.33	0.74	0.79	84.5	OPEN	OPEN	OPEN	OPEN	05:52:45 am
229.9	225.7	348.5	0.25	0.56	0.66	57.8	OPEN	OPEN	OPEN	OPEN	05:53:01 am

Performance Test Results For 0603138 (High Speed) 12-19-2006 05:59 am

TRACKING #:	10053995	CUSTOMER:	DISTRIBUTION SERVICES	DESCRIPTION:	SYNC-0
SBU:	Heating & Air Cond	MODEL:	0603138B	TYPE:	PSC
ENGINEER:	JAMES PENG	FRAME:	48	BENCH:	1
TECHNICIAN:	DAN THOMPSON	PHASES:	1	HP:	0.25
TORQUE CELL:	250-1 inlb	VOLTS:	277.0	ROTATION:	CW
NP RPM:	1075	HERTZ:	60	BDT:	26.02
# SPEEDS:	3	RUN CAP:	5.00	LRA:	2.30
MOTOR #:	1	COMMENT1:		LRT:	7.34
COMMENT 2:		COMMENT 3:		COMMENT 4:	

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	81.240	35.219	@24.1 °C
After	82.004	35.733	@23.8 °C

Friction: -1.0156 ozft @ 200 RPM
Friction + Wind: -1.2607 ozft @ 1080 RPM
Inertia: 0.0192 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1193.3	277.4	417.8	265.6	0.32	0.75	0.80	82.7	0.0	0.0	93.2	0.00
NP+100	5.71	1175.0	276.7	402.3	257.0	0.46	0.66	0.77	126.3	59.5	47.1	99.2	0.08
NP+80	10.48	1155.0	276.5	386.1	246.6	0.62	0.65	0.73	169.3	107.4	63.4	98.8	0.14
NP+60	14.38	1135.0	276.8	371.5	236.4	0.76	0.70	0.71	209.1	144.8	69.3	99.4	0.19
NP-50*	16.09	1125.0	277.1	365.0	231.4	0.83	0.75	0.69	228.0	160.6	70.5	99.1	0.22
NP+40	17.62	1115.0	277.2	358.3	226.2	0.89	0.79	0.68	245.4	174.3	71.0	99.5	0.23
NP-25*	19.53	1100.0	277.0	348.8	218.4	0.98	0.87	0.66	269.1	190.6	70.8	99.1	0.26
NP+20	20.08	1095.0	276.9	345.8	215.8	1.01	0.90	0.66	276.5	195.1	70.6	98.9	0.26
FL	20.71	1089.0	276.8	342.3	212.8	1.05	0.94	0.65	285.1	200.1	70.2	98.1	0.27
NP	22.09	1075.0	276.9	334.7	205.6	1.12	1.02	0.64	304.9	210.7	69.1	98.3	0.28
NP-20	23.67	1055.0	277.6	326.1	196.5	1.23	1.14	0.62	331.7	221.6	66.8	97.1	0.30
NP+25*	24.01	1050.0	278.0	324.4	194.4	1.25	1.16	0.62	338.1	223.7	66.2	97.3	0.30
NP-40	24.90	1035.0	278.6	319.3	188.3	1.32	1.25	0.61	355.9	228.7	64.3	96.8	0.31
NP+50*	25.32	1025.0	278.7	315.8	184.1	1.36	1.30	0.60	366.0	230.3	62.9	96.6	0.31
NP-60	25.63	1015.0	278.6	312.3	179.8	1.40	1.34	0.59	374.9	230.9	61.6	96.1	0.31
NP-80	25.89	995.0	277.6	305.4	171.3	1.47	1.43	0.58	389.1	228.6	58.8	95.4	0.31
NP-100	25.99	975.0	277.2	300.1	163.6	1.54	1.52	0.57	402.3	224.9	55.9	94.2	0.30
BDT	26.02	966.2	277.1	298.2	160.5	1.56	1.55	0.57	408.0	223.1	54.7	94.4	0.30
MT	26.02	966.2	277.1	298.2	160.5	1.56	1.55	0.57	408.0	223.1	54.7	94.4	0.30
NP-200	24.99	875.0	277.1	285.5	132.8	1.79	1.86	0.54	451.5	194.0	43.0	91.0	0.26
NP-300	22.44	775.0	276.9	280.9	110.7	1.96	2.09	0.53	476.5	154.3	32.4	87.8	0.21
NP-400	19.52	675.0	276.6	280.9	94.3	2.07	2.25	0.53	489.6	116.9	23.9	85.5	0.16
HS	17.65	600.0	277.7	283.5	85.5	2.14	2.35	0.54	500.0	94.0	18.8	84.1	0.13
PUT	7.10	31.8	277.3	305.5	54.6	2.30	2.63	0.58	511.1	2.0	0.4	80.1	0.00
LR	7.34	0.0	277.7	306.0	54.4	2.30	2.62	0.58	511.9	0.0	0.0	80.1	0.00

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

Performance Test Project: 0603138 (High Speed) Tuesday, December 19, 2006 05:59 AM

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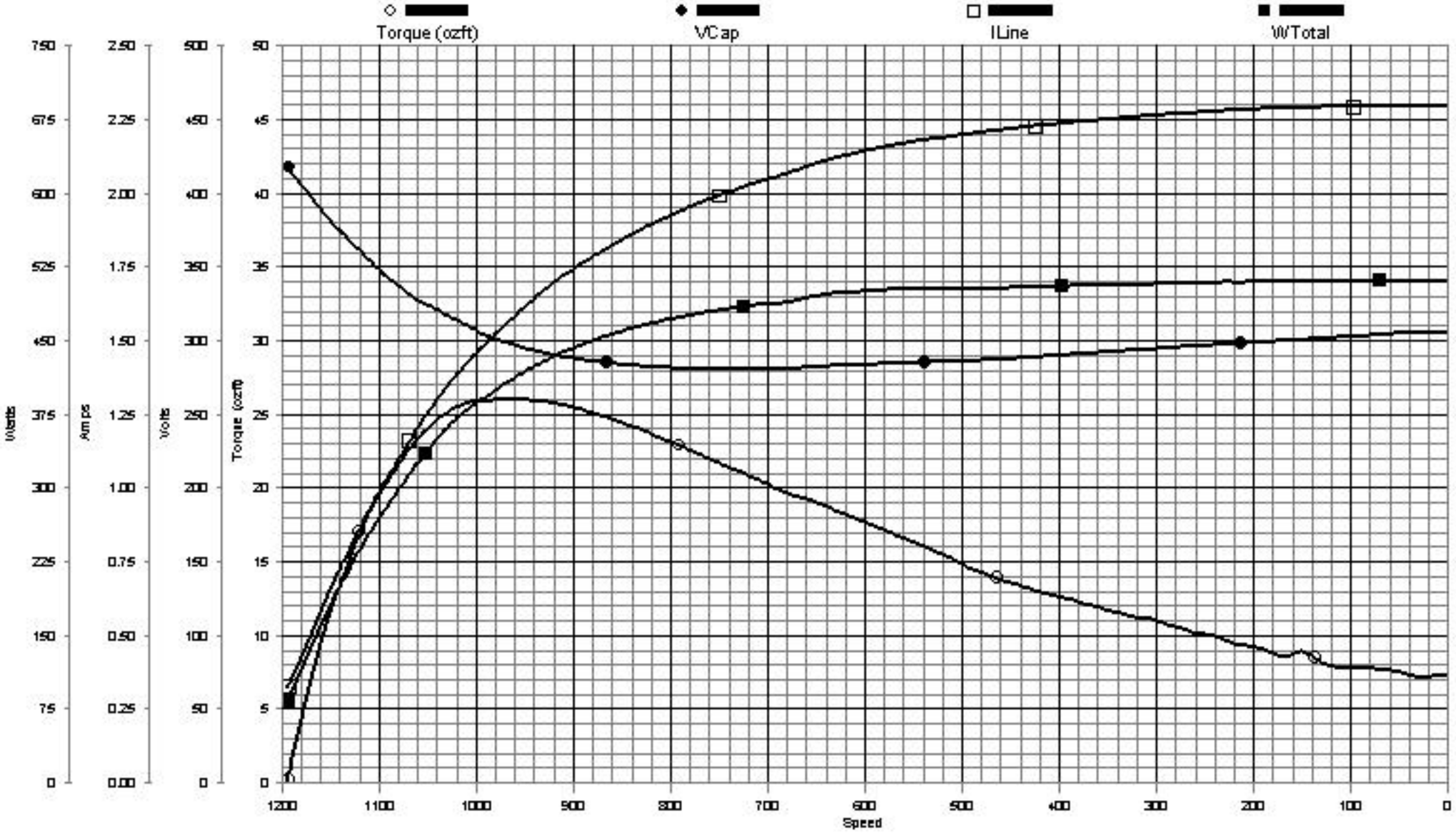


TRACKING #: 10053995	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603138B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.25
TORQUE CELL: 250-1 inlb	VOLTS: 277.0	ROTATION: CW
NP RPM: 1075	HERTZ: 60	EDT: 26.02
# SPEEDS: 3	RUN CAP: 5.00	LRA: 2.30
MOTOR #: 1	COMMENT1:	LRT: 7.34
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603138 (Medium Speed) 12-19-2006 06:16 am

TRACKING #: 10053995 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603138B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: DAN THOMPSON PHASES: 1 HP: 0.25
TORQUE CELL: 250-1 inlb VOLTS: 230.0 ROTATION: CW
NP RPM: 1075 HERTZ: 60 BDT: 11.72
SPEEDS: 3 RUN CAP: 5.00 LRA: 1.24
MOTOR #: 1 COMMENT1: LRT: 3.04
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	81.009	54.993	@22.9 °C
After	81.303	55.260	@22.8 °C

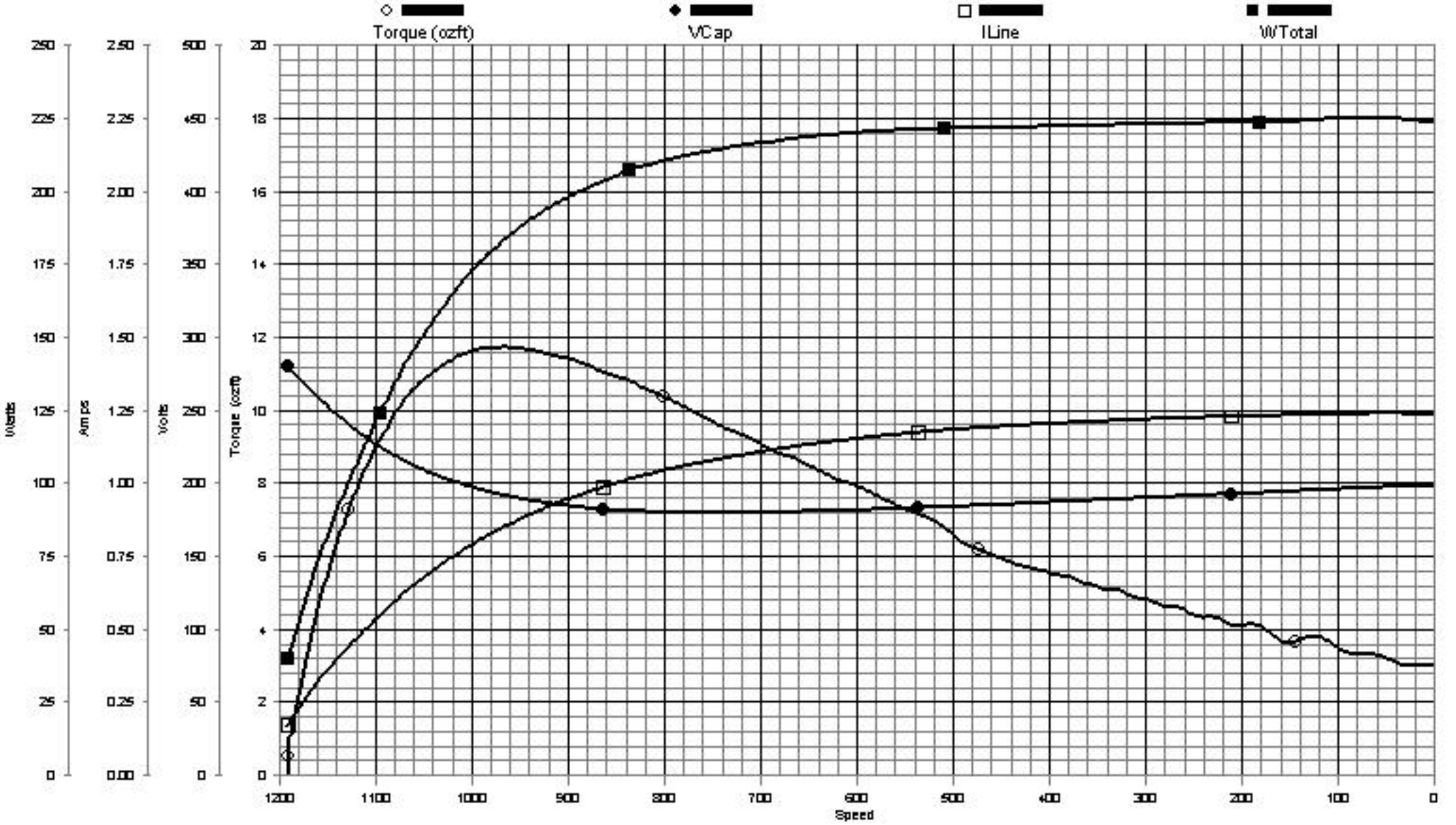
Friction: -0.8939 ozft @ 200 RPM
Friction + Wind: -1.2025 ozft @ 1080 RPM
Inertia: 0.0180 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1190.8	230.2	280.0	182.7	0.17	0.44	0.53	39.2	0.0	0.0	100.0	0.00
NP+100	2.86	1175.0	230.0	269.1	178.3	0.25	0.40	0.51	58.1	29.8	51.3	100.0	0.04
NP+80	5.05	1155.0	229.9	256.4	172.2	0.34	0.38	0.49	77.8	51.8	66.5	99.5	0.07
NP+60	6.75	1135.0	229.8	244.7	166.0	0.41	0.40	0.46	94.8	68.0	71.7	100.0	0.09
NP-50*	7.49	1125.0	229.8	239.3	163.0	0.45	0.42	0.45	102.6	74.8	72.9	99.2	0.10
NP+40	8.14	1115.0	229.7	234.3	160.0	0.48	0.45	0.45	110.1	80.5	73.2	99.9	0.11
NP-25*	8.96	1100.0	229.7	227.4	155.6	0.53	0.49	0.43	120.7	87.5	72.5	99.1	0.12
NP+20	9.20	1095.0	229.6	225.3	154.2	0.55	0.50	0.43	124.0	89.4	72.1	98.2	0.12
NP	10.08	1075.0	229.9	217.6	148.7	0.61	0.56	0.41	137.2	96.2	70.1	97.8	0.13
NP-20	10.72	1055.0	230.0	210.9	143.5	0.66	0.62	0.40	148.5	100.4	67.6	97.8	0.13
NP+25*	10.84	1050.0	230.0	209.4	142.1	0.68	0.64	0.40	150.9	101.0	66.9	96.5	0.14
NP-40	11.13	1035.0	229.9	205.1	138.3	0.71	0.68	0.39	157.8	102.2	64.8	96.7	0.14
NP+50*	11.31	1025.0	230.0	202.7	135.9	0.74	0.71	0.39	162.3	102.9	63.4	95.4	0.14
NP-60	11.46	1015.0	230.3	200.6	133.6	0.76	0.74	0.38	166.7	103.2	61.9	95.2	0.14
NP-80	11.65	995.0	230.5	196.6	129.1	0.80	0.79	0.37	174.5	102.9	58.9	94.6	0.14
NP-100	11.71	975.0	230.5	193.2	124.7	0.84	0.84	0.37	180.8	101.3	56.0	93.4	0.14
MT	11.72	965.4	230.5	191.7	122.7	0.85	0.86	0.36	183.5	100.4	54.7	93.7	0.13
BDT	11.72	965.4	230.5	191.7	122.7	0.85	0.86	0.36	183.5	100.4	54.7	93.7	0.13
NP-200	11.20	875.0	230.1	182.7	105.9	0.97	1.03	0.35	201.8	87.0	43.1	90.4	0.12
NP-300	10.04	775.0	230.1	179.8	91.7	1.06	1.16	0.34	212.3	69.0	32.5	87.0	0.09
NP-400	8.78	675.0	230.0	180.2	80.8	1.12	1.26	0.34	217.6	52.6	24.2	84.5	0.07
HS	7.92	600.0	230.1	181.5	74.2	1.15	1.31	0.35	220.1	42.2	19.2	83.2	0.06
PUT	2.99	31.0	230.3	198.0	42.0	1.24	1.48	0.38	224.7	0.8	0.4	78.7	0.00
LR	3.04	0.0	230.1	197.8	41.8	1.24	1.48	0.38	223.7	0.0	0.0	78.4	0.00

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

Performance Test Project: 0603138 (Medium Speed) Tuesday, December 19, 2006 06:16 AM



TRACKING #: 10053995	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603138B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.25
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CW
NP RPM: 1075	HERTZ: 60	EDT: 11.72
# SPEEDS: 3	RUN CAP: 5.00	LRA: 1.24
MOTOR #: 1	COMMENT1:	LRT: 3.04
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603138 (Low Speed) 12-19-2006
06:19 am

TRACKING #: 10053995 CUSTOMER: DISTRIBUTION SERVICES DESCRIPTION: SYNC-0
SBU: Heating & Air Cond MODEL: 0603138B TYPE: PSC
ENGINEER: JAMES PENG FRAME: 48 BENCH: 1
TECHNICIAN: DAN THOMPSON PHASES: 1 HP: 0.25
TORQUE CELL: 250-1 inlb VOLTS: 230.0 ROTATION: CW
NP RPM: 1075 HERTZ: 60 BDT: 9.02
SPEEDS: 3 RUN CAP: 5.00 LRA: 0.95
MOTOR #: 1 COMMENT1: LRT: 2.07
COMMENT 2: COMMENT 3: COMMENT 4:

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	80.962	70.761	@22.9 °C
After	81.112	70.982	@22.8 °C

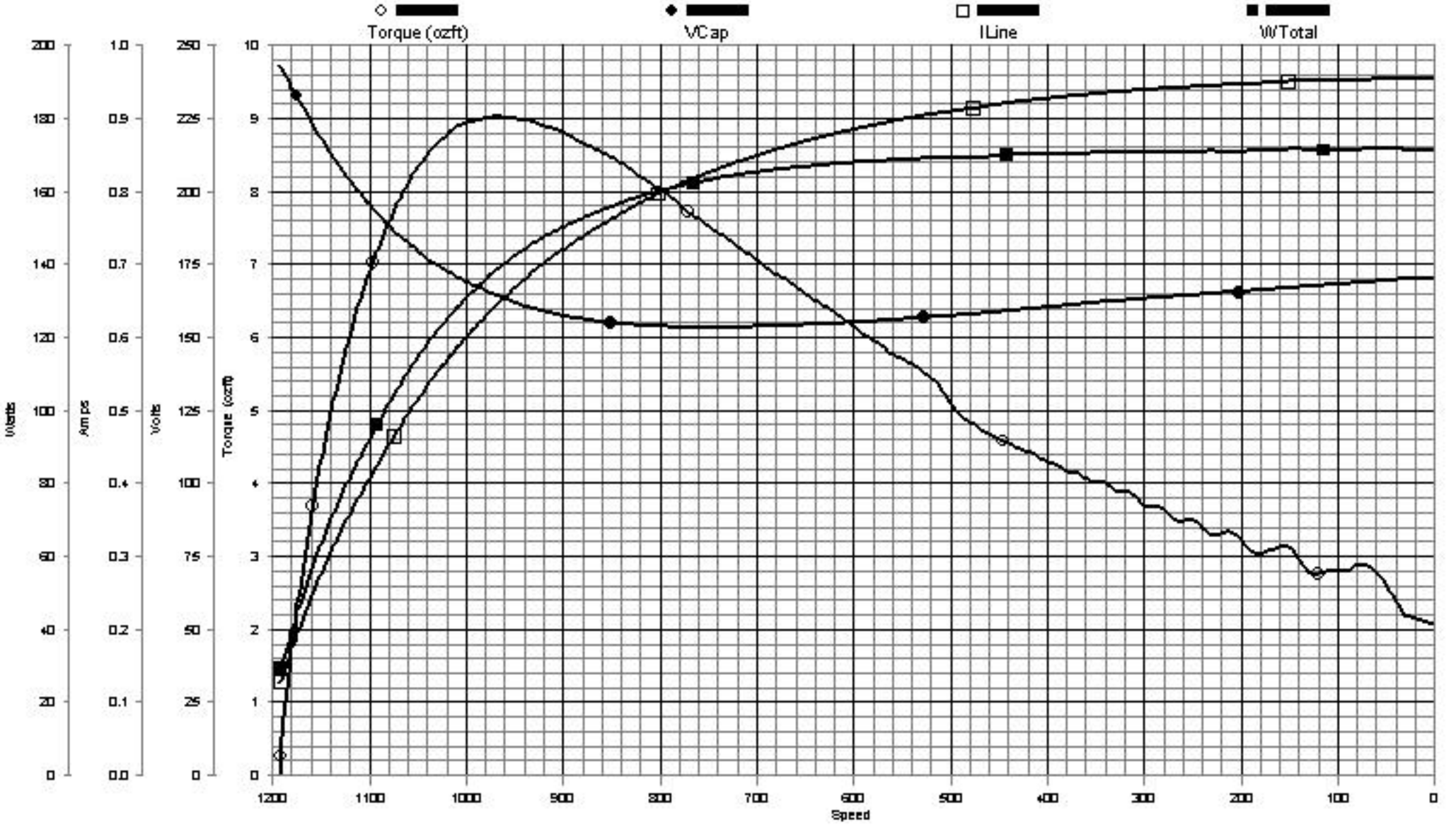
Friction: -1.0016 ozft @ 200 RPM
Friction + Wind: -1.1828 ozft @ 1080 RPM
Inertia: 0.0182 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1192.1	229.8	242.8	167.0	0.13	0.39	0.46	29.0	0.0	0.0	97.1	0.00
NP+100	2.26	1175.0	230.0	232.6	164.2	0.19	0.35	0.44	44.1	23.6	53.4	100.0	0.03
NP+80	3.94	1155.0	229.9	221.2	160.5	0.26	0.33	0.42	59.6	40.4	67.8	99.7	0.05
NP+60	5.24	1135.0	229.8	210.9	156.7	0.32	0.33	0.40	73.0	52.8	72.3	99.3	0.07
NP-50*	5.78	1125.0	229.8	206.2	154.9	0.35	0.34	0.39	78.9	57.7	73.1	98.1	0.08
NP+40	6.27	1115.0	229.7	201.8	153.0	0.37	0.36	0.38	84.2	62.0	73.7	99.1	0.08
NP-25*	6.90	1100.0	229.7	195.8	150.2	0.41	0.39	0.37	91.9	67.4	73.3	97.6	0.09
NP+20	7.08	1095.0	229.8	193.9	149.3	0.42	0.40	0.37	94.4	68.8	72.9	97.8	0.09
NP	7.71	1075.0	229.7	186.9	145.4	0.46	0.44	0.36	103.9	73.5	70.8	98.3	0.10
NP-20	8.23	1055.0	230.1	181.2	142.0	0.50	0.49	0.34	112.5	77.0	68.5	97.8	0.10
NP+25*	8.33	1050.0	230.1	179.8	141.1	0.51	0.50	0.34	114.5	77.6	67.8	97.6	0.10
NP-40	8.58	1035.0	230.1	176.1	138.4	0.54	0.53	0.33	119.9	78.8	65.7	96.5	0.11
NP+50*	8.71	1025.0	230.1	173.9	136.7	0.56	0.55	0.33	123.3	79.2	64.3	95.7	0.11
NP-60	8.83	1015.0	230.2	171.9	135.1	0.58	0.57	0.33	126.5	79.5	62.9	94.7	0.11
NP-80	8.96	995.0	230.4	168.4	131.9	0.61	0.61	0.32	132.2	79.1	59.8	94.1	0.11
NP-100	9.01	975.0	230.4	165.3	128.7	0.64	0.65	0.31	137.0	78.0	56.9	92.9	0.10
MT	9.02	967.8	230.4	164.3	127.6	0.64	0.66	0.31	138.6	77.5	55.9	94.0	0.10
BDT	9.02	967.8	230.4	164.3	127.6	0.64	0.66	0.31	138.6	77.5	55.9	94.0	0.10
NP-200	8.63	875.0	230.1	155.9	114.7	0.74	0.80	0.30	153.2	67.0	43.7	90.0	0.09
NP-300	7.77	775.0	230.1	153.4	103.9	0.81	0.91	0.29	161.7	53.4	33.0	86.8	0.07
NP-400	6.84	675.0	230.0	153.9	95.3	0.86	0.98	0.29	166.0	41.0	24.7	83.9	0.05
HS	6.15	600.0	230.0	155.0	90.0	0.88	1.02	0.29	167.9	32.7	19.5	83.0	0.04
LR	2.07	0.0	229.9	170.0	63.8	0.95	1.16	0.32	171.2	0.0	0.0	78.4	0.00
PUT	2.07	0.0	229.9	170.0	63.8	0.95	1.16	0.32	171.2	0.0	0.0	78.4	0.00

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

Performance Test Project: 0603138 (Low Speed) Tuesday, December 19, 2006 06:19 AM



TRACKING #: 10053995	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603138B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.25
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CW
NP RPM: 1075	HERTZ: 60	EDT: 9.02
# SPEEDS: 3	RUN CAP: 5.00	LRA: 0.95
MOTOR #: 1	COMMENT1:	LRT: 2.07
COMMENT 2:	COMMENT 3:	COMMENT 4:

Performance Test Results For 0603138 (High Speed) 12-19-2006 06:12 am

TRACKING #:	10053995	CUSTOMER:	DISTRIBUTION SERVICES	DESCRIPTION:	SYNC-0
SBU:	Heating & Air Cond	MODEL:	0603138B	TYPE:	PSC
ENGINEER:	JAMES PENG	FRAME:	48	BENCH:	1
TECHNICIAN:	DAN THOMPSON	PHASES:	1	HP:	0.25
TORQUE CELL:	250-1 inlb	VOLTS:	230.0	ROTATION:	CW
NP RPM:	1075	HERTZ:	60	BDT:	17.94
# SPEEDS:	3	RUN CAP:	5.00	LRA:	1.88
MOTOR #:	1	COMMENT1:		LRT:	4.68
COMMENT 2:		COMMENT 3:		COMMENT 4:	

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	81.073	35.138	@23.1 °C
After	81.552	35.466	@23.0 °C

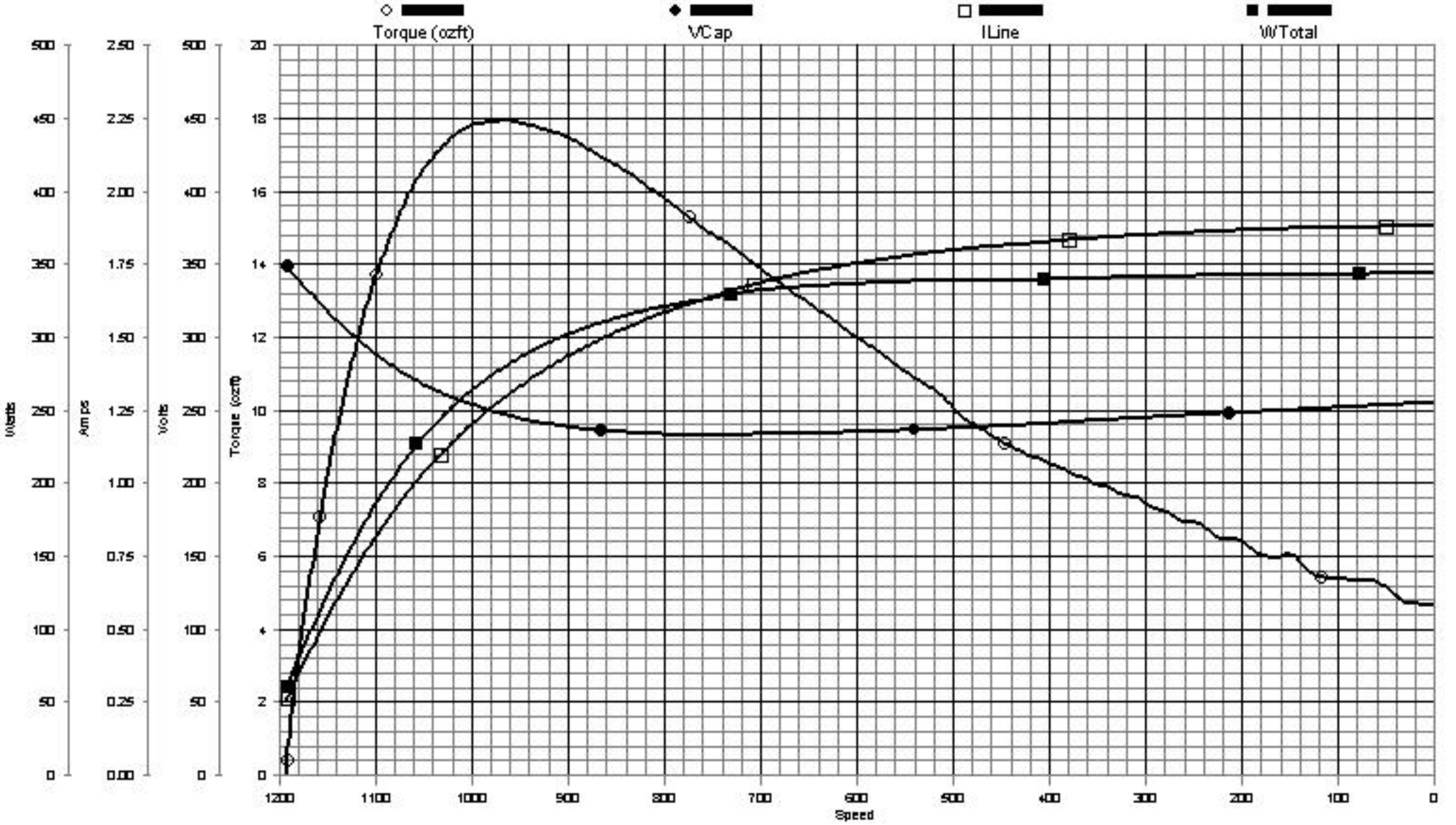
Friction: -0.9333 ozft @ 200 RPM
Friction + Wind: -1.2308 ozft @ 1080 RPM
Inertia: 0.0174 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1192.2	230.2	349.2	224.4	0.26	0.56	0.66	59.2	0.0	0.0	98.9	0.00
NP+100	4.12	1175.0	229.9	336.5	216.7	0.38	0.51	0.64	86.8	43.0	49.5	99.4	0.06
NP+80	7.47	1155.0	229.8	322.1	207.1	0.51	0.51	0.61	116.5	76.6	65.7	99.4	0.10
NP+60	10.14	1135.0	229.7	308.7	197.4	0.63	0.56	0.59	143.8	102.1	71.0	99.4	0.14
NP-50*	11.27	1125.0	229.7	302.6	192.8	0.68	0.60	0.58	156.3	112.5	72.0	100.0	0.15
NP+40	12.32	1115.0	229.8	297.1	188.3	0.74	0.64	0.56	168.3	121.9	72.4	99.0	0.16
NP-25*	13.65	1100.0	229.9	289.3	181.7	0.81	0.72	0.55	185.2	133.2	71.9	99.5	0.18
NP+20	14.04	1095.0	229.9	286.8	179.6	0.84	0.74	0.55	190.4	136.4	71.7	98.6	0.18
NP	15.39	1075.0	229.9	277.6	170.9	0.93	0.84	0.53	210.4	146.8	69.8	98.4	0.20
NP-20	16.39	1055.0	230.0	269.7	162.7	1.02	0.94	0.51	227.7	153.4	67.4	97.1	0.21
NP+25*	16.58	1050.0	230.0	267.9	160.7	1.03	0.96	0.51	231.5	154.5	66.7	97.7	0.21
NP-40	17.09	1035.0	230.2	263.1	155.2	1.09	1.02	0.50	242.2	157.0	64.8	96.5	0.21
NP+50*	17.37	1025.0	230.3	260.3	151.7	1.12	1.07	0.49	248.9	158.0	63.5	96.5	0.21
NP-60	17.59	1015.0	230.4	257.8	148.4	1.15	1.11	0.49	255.2	158.4	62.1	96.3	0.21
NP-80	17.83	995.0	230.5	253.1	141.8	1.22	1.18	0.48	266.5	157.4	59.1	94.8	0.21
NP-100	17.92	975.0	230.3	248.8	135.4	1.27	1.25	0.47	275.7	155.0	56.2	94.3	0.21
MT	17.94	965.7	230.2	247.1	132.6	1.29	1.28	0.47	279.5	153.7	55.0	94.1	0.21
BDT	17.94	965.7	230.2	247.1	132.6	1.29	1.28	0.47	279.5	153.7	55.0	94.1	0.21
NP-200	17.11	875.0	230.0	236.7	109.6	1.48	1.54	0.45	307.8	132.9	43.2	90.4	0.18
NP-300	15.32	775.0	229.8	233.1	91.0	1.61	1.72	0.44	323.9	105.4	32.5	87.5	0.14
NP-400	13.42	675.0	230.2	233.9	77.9	1.71	1.86	0.44	333.7	80.4	24.1	84.8	0.11
HS	12.02	600.0	230.1	235.1	70.1	1.75	1.93	0.45	336.6	64.0	19.0	83.6	0.09
LR	4.68	0.0	229.9	254.2	45.4	1.88	2.16	0.48	343.9	0.0	0.0	79.6	0.00
PUT	4.68	0.0	229.9	254.2	45.4	1.88	2.16	0.48	343.9	0.0	0.0	79.6	0.00

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

Performance Test Project: 0603138 (High Speed) Tuesday, December 19, 2006 06:12 AM



TRACKING #: 10053995	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0603138B	TYPE: PSC
ENGINEER: JAMES PENG	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.25
TORQUE CELL: 250-1 inlb	VOLTS: 230.0	ROTATION: CW
NP RPM: 1075	HERTZ: 60	EDT: 17.94
# SPEEDS: 3	RUN CAP: 5.00	LRA: 1.68
MOTOR #: 1	COMMENT1:	LRT: 4.68
COMMENT 2:	COMMENT 3:	COMMENT 4:

Specification & Rating Report

Item Number: **9432A**

Specification Number: **1**

Model Number:	**F48Y94A01**	Sample Number:	
Carton Label Model Number:		Customer Specification Number:	
Customer Model Number:		Catalog Number:	**9432A**
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:	**786674011275**	UPC Catalog Number:	**786674011275**
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:	**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:	**9432A-S01**	Outline Graphic:	**012A**
Ambient Temperature:	**60**	Insulation Class:	**B**

Specification & Rating Report

Protector:	**AUTOMATIC**	Thermal Protection:	
Nameplate Overload:		Label Overload:	
IP Code:			
Nameplate Enclosure:	**OPEN**	Label Enclosure:	**OPEN**
Frame Length:	**3.63**	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 MOUNT**
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:	**5.5**	Shaft Extension UOM:	**IN**
Shaft Material:		Rotation:	**REV**
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:	**1/4,1/6,1/8**	Customer Nameplate Number:	
Volts:	**277**	Kilowatts:	
Hertz:	**60**	Amps:	**1.2, .75, .55**
Field Current:		Maximum Amps:	
Revolutions Per Minute:	**1075**	Armature Current:	
Service Factor:	**1.0**	Power Factor:	
Service Factor Amps:		Service Factor Volts:	
NEMA Code:		NEMA Nominal Efficiency:	
NEMA Design:		NEMA Guaranteed Efficiency:	