

PRODUCT INFORMATION PACKET



Model No: 753A
Catalog No: 753A

Fan Coil & Air Conditioner Motor, 1/3 HP, 1 Ph, 60 Hz, 115 V, 1075 RPM, 4 Speed, 48 Frame, OAO



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Nameplate Specifications

Output HP	1/3 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	115 V
Current	5.6 A	Speed	1075 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48	Enclosure	Open Air Over
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	4

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	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	10.38 in	Frame Length	4.25 in
Shaft Diameter	0.500 in	Shaft Extension	5.52 in
Connection Drawing	614131-347	Outline Drawing	753A-S01

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GENERAL INFORMATION:

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

BEARINGS: BALL

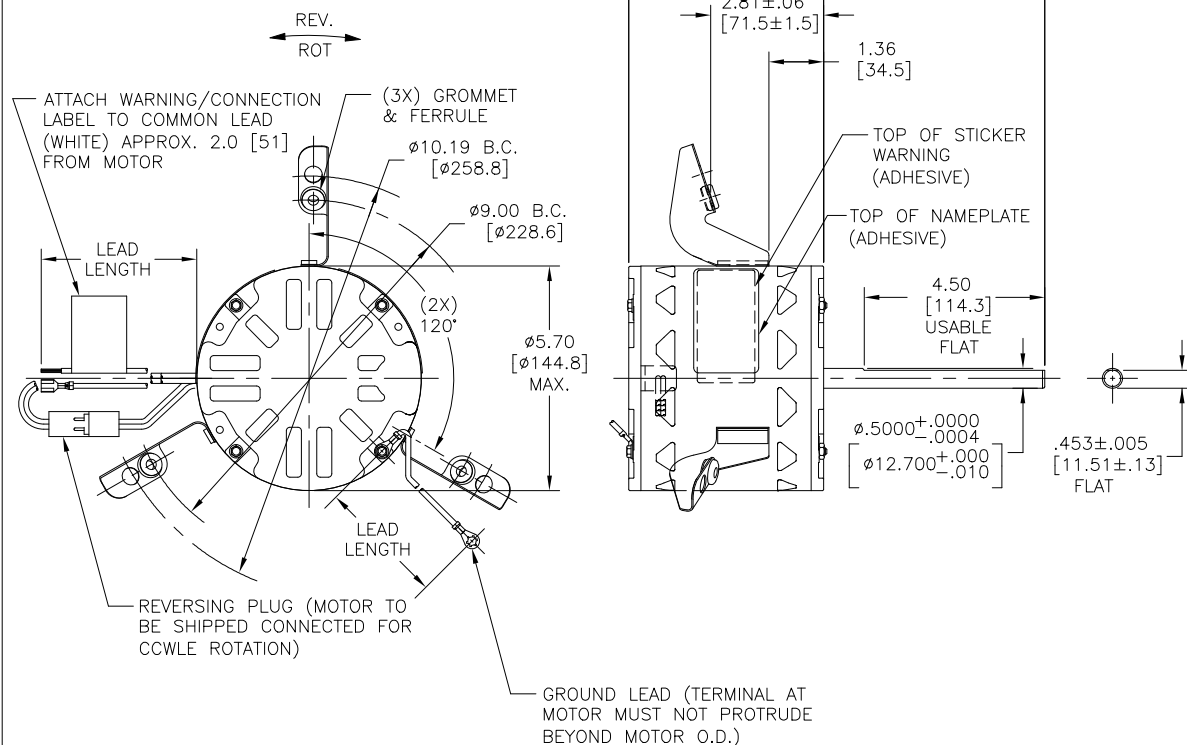
MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

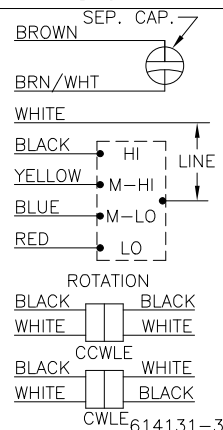
LEADS: NO. 18 GA., .03 [.8] THK., XLP 125°C INSULATION

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



NAMEPLATE DATA:

EXTERNAL CONNECTION DIAGRAM



MODEL NO.: F48Y61A01
CUST. P/N: 753A
HP: 1/3
ROT.: REVERSIBLE
RPM: 1075/4 SPD.
TYPE: UF
FRAME: 48Y
VOLTS: 115
PH: 1
AMPS: 5.6
HZ: 60
INS.: B
AMB.: 40° C
DUTY: AIR OVER
CAP.: 5 MFD/370V
ENCL: OPEN
UL LOGO
CSA LOGO
THERMALLY PROTECTED

PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT	CSA
C32640	38.4 OZ. FT	0600518A	E46412 PRGY2	LR43341 4211-01

GREEN/YELLOW (GRD)	11.0/13.0 [305/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN/WHITE	24.0/26.0 [609/660]	.25 [6.4] FEMALE SPADE
BROWN	24.0/26.0 [609/660]	.25 [6.4] FEMALE SPADE
WHITE	24.0/26.0 [609/660]	.50 [12.7] SKIN
BLACK	24.0/26.0 [609/660]	.50 [12.7] SKIN
YELLOW	24.0/26.0 [609/660]	.50 [12.7] SKIN
BLUE	24.0/26.0 [609/660]	.50 [12.7] SKIN
RED	24.0/26.0 [609/660]	.50 [12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

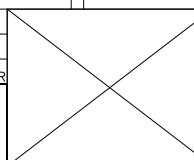
REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

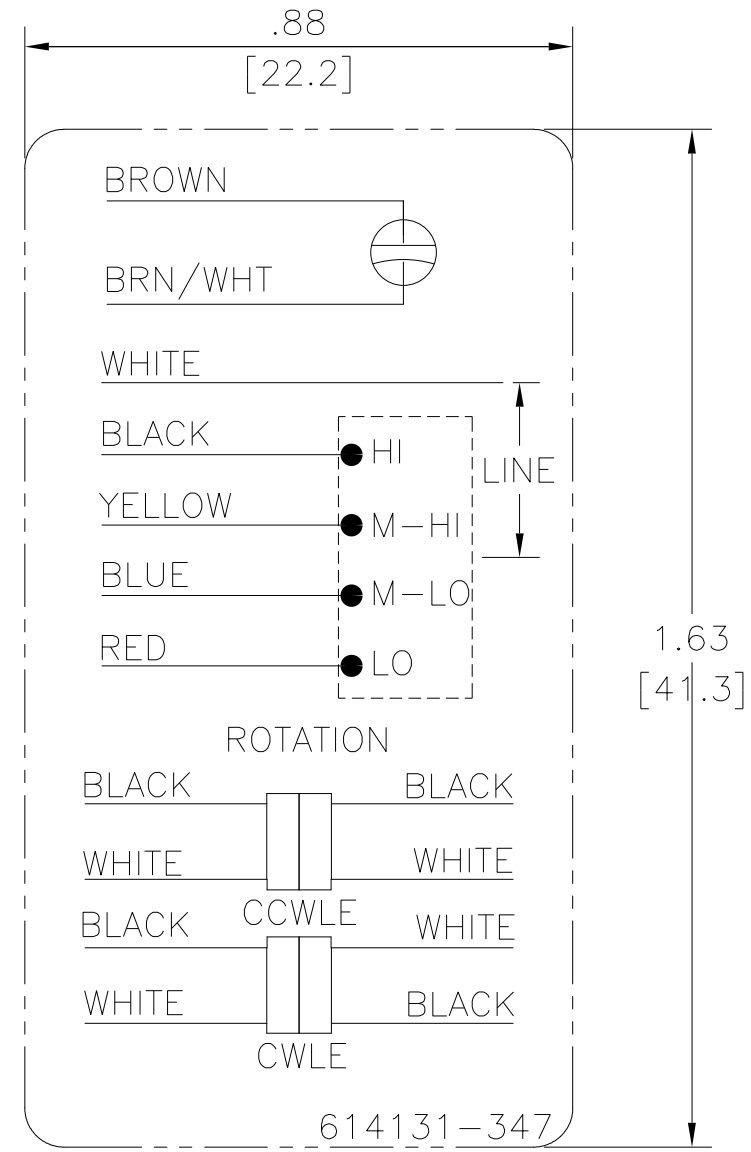
MAIN FRAME - OLE	OPEN
END FRAME - OLE	OPEN
MAIN FRAME - LE	OPEN
END FRAME - LE	OPEN

CUSTOMER	DISTRIBUTION SERVICE
----------	----------------------

DRAWING REVISION	REVISION BY	DATE
ECO	J. RUPERT	04-28-2022
ECO-0217399	APPROVED BY	DATE
	J. RUPERT	04-28-2022
REMOVED NOTE FOR CONSERVATIONIST STICKER		
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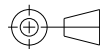


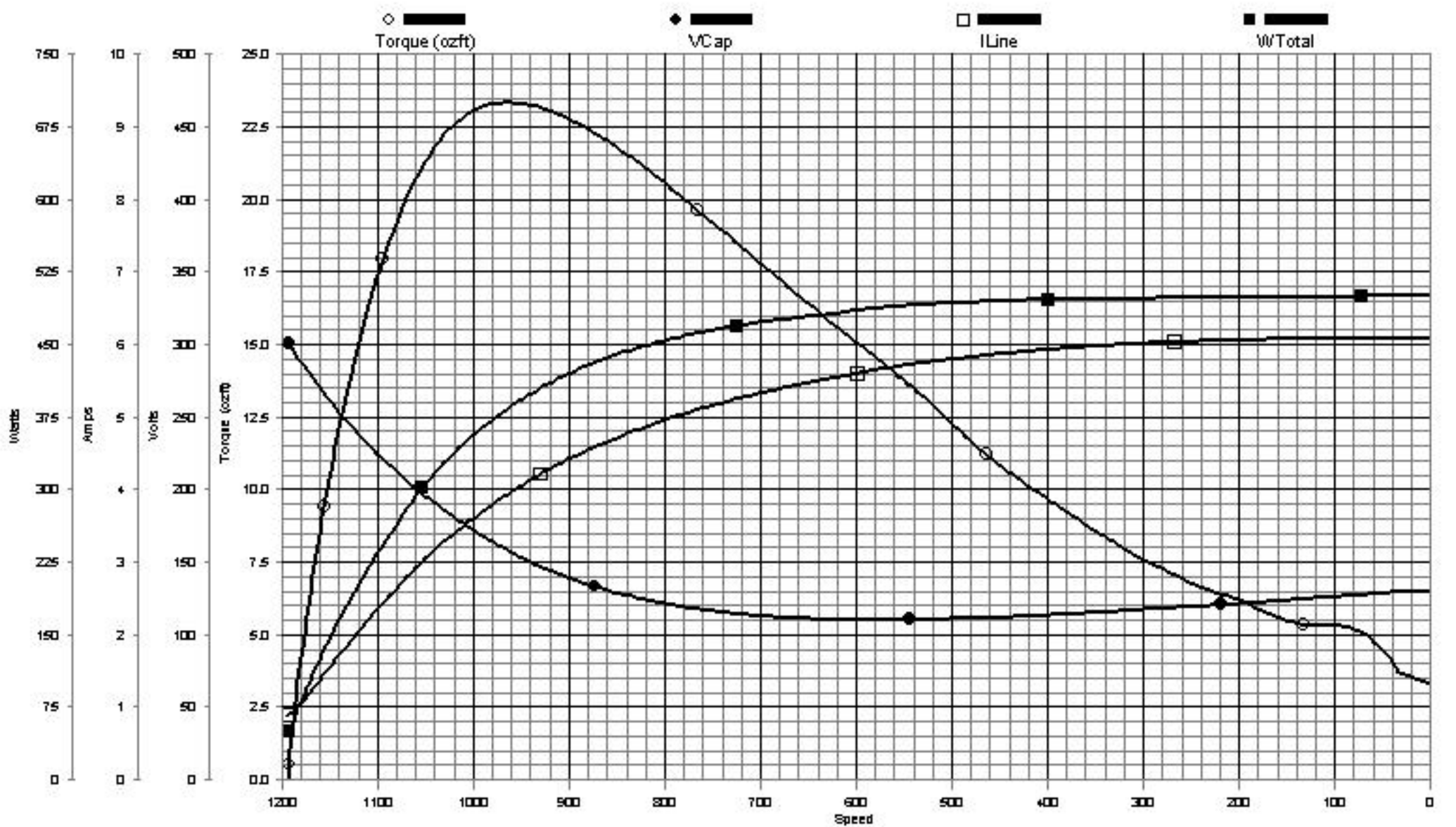
DRAWN BY:	G. ZHAO
DATE:	07-21-2014
APPROVED BY:	C. ZHOU
DATE:	07-21-2014
REFERENCE	
THIRD ANGLE PROJECTION	
SIZE	DWG NO
C	753A
DESCRIPTION	MODEL-RFHP-48FR OUTLINE
MATERIAL	
PROCESS/FINISH	
SHEET	1



NOTES:

- 1. FOR USE WITH 614129 NAMEPLATE BLANK.
- 2. ——— - - - - - INDICATES DIMENSION LIMITS.
- 3. DIE TO BE MADE FROM MASTER SUPPLIED BY REGAL REXNORD CORPORATION.
- 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

DRAWING REVISION C	REVISION BY J. RUPERT	DATE 04-08-2022	TOLERANCES UNLESS OTHERWISE SPECIFIED DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381] X 45° CORNER FILLETS R.02 [.51] MACHINED SURFACES mm SHOWN IN [BRACKETS]				DRAWN BY: L. GRADO		 Regal Beloit America, Inc.			
ECO NMR-0213458	APPROVED BY J. RUPERT	DATE 04-08-2022					DATE: 02-05-2009					
ECO DESCRIPTION REVISED FOR UP ISSUE			APPROVED BY: C. CONTRERAS				DESCRIPTION CONN DIAGRAM-EXTERNAL					
											DATE: 02-05-2009	
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			THIRD ANGLE PROJECTION		SIZE		DWG NO		SHEET			
					A		4 of 12		614131-347		1	



TRACKING #: 10048481	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0600518A	TYPE: PSC
ENGINEER: DAVID CAO	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 115.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	BDT: 23.32
# SPEEDS: 4	RUN CAP: 5.00	LRA: 6.09
MOTOR #: 1	COMMENT1:	LET: 3.32
COMMENT 2:	COMMENT 3:	COMMENT 4:

C32640

Resistance:

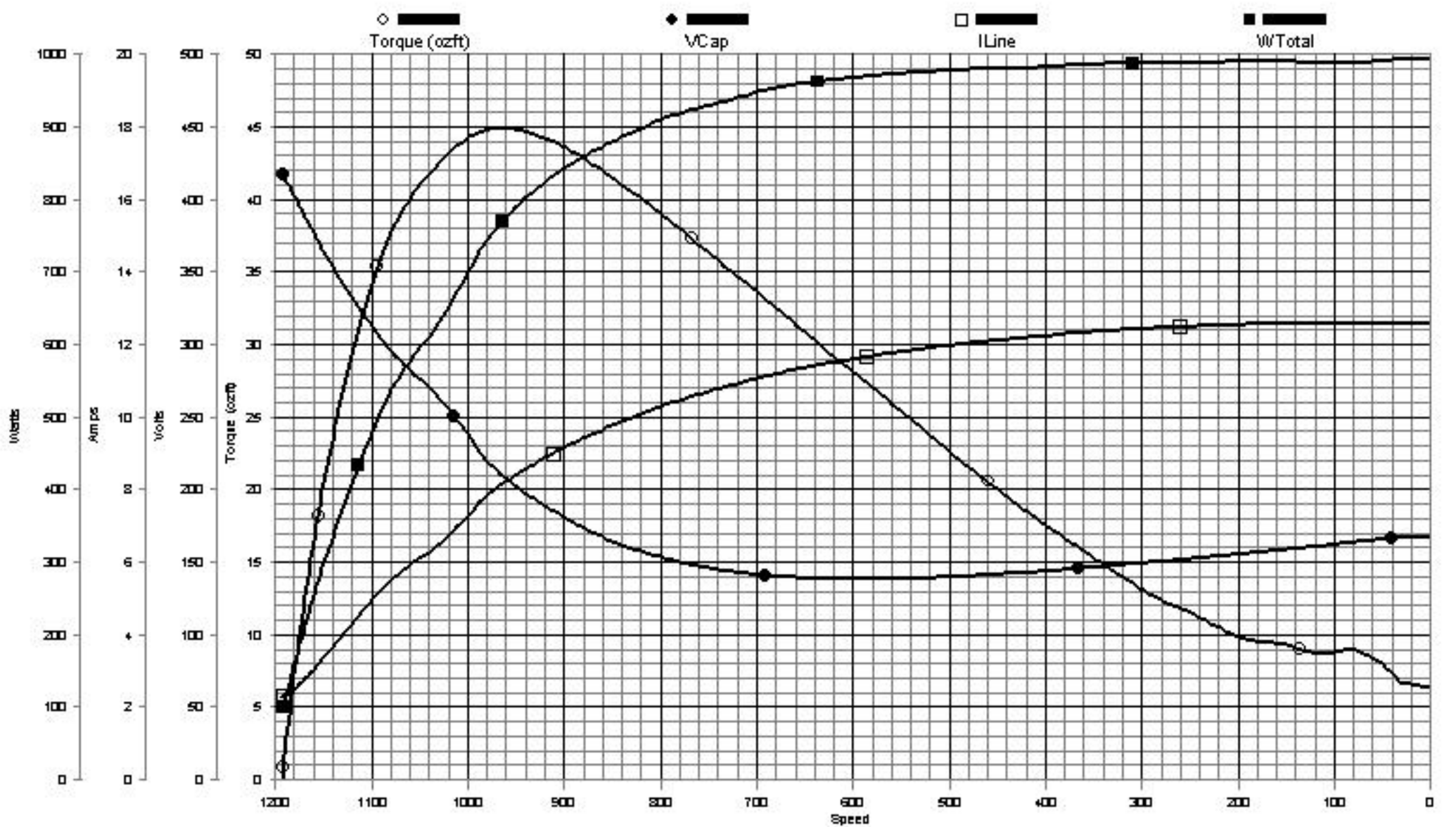
	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	55.199	2.661	@23.2 °C
After	55.636	2.711	@23.4 °C

Friction: -1.4865 ozft @ 200 RPM
Friction + Wind: -0.7121 ozft @ 1080 RPM
Inertia: 0.0117 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1192.8	114.7	418.5	383.1	2.29	2.49	0.81	94.8	0.0	0.0	36.1	0.00
NP+100	9.90	1175.0	114.3	395.8	366.7	2.62	2.55	0.76	184.8	103.2	55.9	61.7	0.14
NP+80	18.37	1155.0	114.0	371.1	347.5	3.18	2.93	0.71	274.3	188.3	68.6	75.7	0.25
NP+60	25.11	1135.0	113.9	348.3	329.0	3.82	3.49	0.67	353.3	252.9	71.6	81.2	0.34
NP-50*	28.00	1125.0	114.0	337.7	320.4	4.14	3.80	0.65	390.6	279.5	71.6	82.8	0.37
NP+40	30.63	1115.0	114.2	327.7	312.1	4.46	4.12	0.63	426.6	303.1	71.0	83.8	0.41
NP-25*	34.05	1100.0	114.5	313.4	299.9	4.93	4.59	0.61	477.6	332.4	69.6	84.6	0.45
NP+20	35.07	1095.0	114.5	308.7	296.0	5.08	4.74	0.60	493.5	340.8	69.1	84.8	0.46
NP	38.39	1075.0	114.7	292.0	281.5	5.62	5.29	0.57	548.1	366.2	66.8	85.0	0.49
FL	39.70	1063.7	114.8	284.8	275.0	5.85	5.53	0.56	570.5	374.7	65.7	84.9	0.50
NP-20	40.51	1055.0	114.8	279.8	270.6	6.00	5.69	0.55	585.4	379.3	64.8	85.0	0.51
NP+25*	40.93	1050.0	114.8	276.9	268.0	6.09	5.78	0.54	593.8	381.4	64.2	84.9	0.51
NP-40	42.08	1035.0	114.7	267.4	259.4	6.38	6.08	0.53	620.6	386.5	62.3	84.8	0.52
NP+50*	42.79	1025.0	114.6	259.9	252.5	6.60	6.32	0.51	641.0	389.2	60.7	84.7	0.52
NP-60	43.44	1015.0	114.6	251.4	244.6	6.86	6.59	0.50	663.6	391.3	59.0	84.4	0.52
NP-80	44.43	995.0	114.4	232.8	226.7	7.42	7.19	0.46	711.1	392.3	55.2	83.8	0.53
NP-100	44.85	975.0	114.4	216.8	210.5	7.93	7.72	0.43	751.6	388.0	51.6	82.8	0.52
BDT	44.89	966.0	114.5	211.3	204.6	8.11	7.92	0.42	766.3	384.8	50.2	82.5	0.52
MT	44.89	966.0	114.5	211.3	204.6	8.11	7.92	0.42	766.3	384.8	50.2	82.5	0.52
NP-200	42.68	875.0	114.6	172.5	159.3	9.47	9.38	0.35	862.4	331.4	38.4	79.5	0.44
NP-300	37.76	775.0	114.7	149.3	123.5	10.50	10.49	0.30	920.5	259.7	28.2	76.4	0.35
NP-400	32.30	675.0	114.9	139.9	97.7	11.22	11.27	0.27	954.6	193.5	20.3	74.0	0.26
HS	28.15	600.0	114.8	138.2	83.2	11.59	11.68	0.27	967.4	149.9	15.5	72.7	0.20
LR	6.40	0.0	115.1	167.5	55.8	12.59	12.85	0.32	996.5	0.0	0.0	68.8	0.00
PUT	6.40	0.0	115.1	167.5	55.8	12.59	12.85	0.32	996.5	0.0	0.0	68.8	0.00

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



TRACKING #: 10048481	CUSTOMER: DISTRIBUTION SERVICES	DESCRIPTION: SYNC-0
SBU: Heating & Air Cond	MODEL: 0600518A	TYPE: PSC
ENGINEER: DAVID CAO	FRAME: 48	BENCH: 1
TECHNICIAN: DAN THOMPSON	PHASES: 1	HP: 0.33
TORQUE CELL: 250-1 inlb	VOLTS: 115.0	ROTATION: CCW
NP RPM: 1075	HERTZ: 60	BDT: 44.89
# SPEEDS: 4	RUN CAP: 5.00	LRA: 12.59
MOTOR #: 1	COMMENT1:	LET: 6.40
COMMENT 2:	COMMENT 3:	COMMENT 4:

C32640

Resistance:

	Start	Main1	
	03-02	01-02	
Spec	10.00	0.00	
Before	55.454	5.650	@24.2 °C
After	55.752	5.684	@24.1 °C

Friction: -1.7968 ozft @ 200 RPM
Friction + Wind: -0.8428 ozft @ 1080 RPM
Inertia: 0.0116 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	114.6	301.0	275.2	0.88	1.02	0.57	48.1	0.0	0.0	47.7	0.00
NP+100	5.38	1175.0	114.4	284.2	263.6	1.13	1.06	0.54	91.8	56.1	61.1	71.0	0.08
NP+80	9.56	1155.0	114.2	266.2	250.6	1.46	1.26	0.51	135.8	98.0	72.2	81.4	0.13
NP+60	12.93	1135.0	114.0	249.7	238.1	1.80	1.55	0.48	174.9	130.2	74.5	85.2	0.17
NP-50*	14.36	1125.0	114.0	242.3	232.3	1.96	1.70	0.46	192.6	143.4	74.4	86.2	0.19
NP+40	15.65	1115.0	114.0	235.3	226.8	2.11	1.86	0.45	209.5	154.8	73.9	87.1	0.21
NP-25*	17.35	1100.0	114.1	225.3	218.8	2.34	2.09	0.43	233.7	169.4	72.5	87.5	0.23
NP+20	17.86	1095.0	114.2	222.0	216.1	2.42	2.16	0.42	241.5	173.5	71.9	87.4	0.23
NP	19.64	1075.0	114.4	209.7	205.8	2.71	2.47	0.40	271.5	187.4	69.0	87.6	0.25
NP-20	21.02	1055.0	114.6	198.5	196.2	2.98	2.75	0.38	298.5	196.8	65.9	87.4	0.26
NP+25*	21.31	1050.0	114.7	195.9	193.9	3.05	2.82	0.37	304.8	198.6	65.1	87.1	0.27
NP-40	22.03	1035.0	114.8	188.4	187.2	3.23	3.02	0.36	322.3	202.3	62.8	86.9	0.27
NP+50*	22.42	1025.0	114.9	183.6	182.8	3.34	3.14	0.35	333.0	203.9	61.2	86.8	0.27
NP-60	22.72	1015.0	114.9	179.0	178.5	3.45	3.26	0.34	342.8	204.6	59.7	86.5	0.27
NP-80	23.13	995.0	114.9	170.3	170.1	3.65	3.47	0.33	360.1	204.2	56.7	85.9	0.27
NP-100	23.29	975.0	114.8	162.4	162.1	3.84	3.68	0.31	375.4	201.5	53.7	85.2	0.27
MT	23.32	962.9	114.8	158.0	157.5	3.94	3.79	0.30	383.9	199.3	51.9	84.9	0.27
BDT	23.32	962.9	114.8	158.0	157.5	3.94	3.79	0.30	383.9	199.3	51.9	84.9	0.27
NP-200	22.34	875.0	114.8	133.8	128.8	4.57	4.49	0.26	430.6	173.5	40.3	82.1	0.23
NP-300	19.89	775.0	114.7	118.4	103.7	5.06	5.03	0.23	459.7	136.8	29.8	79.2	0.18
NP-400	17.11	675.0	114.6	111.6	84.6	5.40	5.42	0.21	475.9	102.5	21.5	76.9	0.14
HS	15.11	600.0	114.7	110.0	73.2	5.60	5.64	0.21	484.9	80.5	16.6	75.5	0.11
LR	3.32	0.0	114.7	129.3	28.3	6.09	6.26	0.25	500.0	0.0	0.0	71.6	0.00
PUT	3.32	0.0	114.7	129.3	28.3	6.09	6.26	0.25	500.0	0.0	0.0	71.6	0.00

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



Specification & Rating Report

Item Number: **753A**

Specification Number: **1**

Model Number: **F48Y61A01**

Carton Label Model
Number:

Customer Model
Number:

Agency Type:

CE: **N**

CSA: **Y**

UL: **Y**

UL Explosion Proof Rating:

Sample Number:

Customer Specification
Number:

Catalog Number: **753A**

CE Number:

CSA Number: **NO**

UL Number: **NO**

Cubic Feet Per Minute:

F2 Assembly:

UPC Model Number:

UPC Catalog Number: **786674010674**

Nameplate Drive
Bearing Type:

Nameplate Opposite
Drive Bearing Type:

Label Drive Bearing **BALL**
Type:

Label Opposite Drive **BALL**
Bearing Type:

Capacitor:

Capacitor Rating MFD: **5**

Capacitor Included: **N**

Capacitor Rating VAC: **370**

Control Code:

DC Design Number:

Form Factor:

Design Status:

Features:

Connection Diagram:

Lubrication Label
Diagram:

Outline Diagram: **753A-S01**

Installation Diagram:

Warning Label
Diagram:

Outline Graphic:

Ambient Temperature: **40**

Insulation Class: **B**



Specification & Rating Report

Protector: AUTOMATIC	Thermal Protection:
Nameplate Overload:	Label Overload:
IP Code:	
Nameplate Enclosure: OA0	Label Enclosure: OPEN
Frame Length: 4.25	Frame Length UOM: IN
Frame Diameter: 5.7	Frame Diameter UOM:
Frame Size: 48	
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:
Nameplate Location Format:	
Brake:	Tachometer:
Layer Quantity:	Pallet Quantity:
Phase: 1	CurrentType:
DC Pole:	
Poles: 6	
Speeds: 4	
Duty: AIR OVER	
Shaft Diameter: .50	Shaft Diameter UOM: IN
Shaft Extension: 5.52	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:	
Label Text 2:	
Label Text 3:	
Label Text 4:	
Brand Line:	
Vendor Line:	
Motor Weight:	Motor Weight UOM:
Shipping Weight:	Shipping Weight UOM:
Armature Field Winding:	
Core Length: 2.0	Core Length UOM: IN
Winding Code:	Winding Specification:
Nameplate Only Instructions:	
Nameplate & Label Instructions:	
Label Only Instructions:	



Specification & Rating Report

Rating Number: 1

Horsepower: 1/3

Volts: 115

Hertz: 60

Field Current:

Revolutions Per Minute: 1075/4SPD

Service Factor: 1.0

Service Factor Amps:

NEMA Code:

NEMA Design:

Customer Nameplate Number:

Kilowatts:

Amps: 5.6

Maximum Amps:

Armature Current:

Power Factor:

Service Factor Volts:

NEMA Nominal Efficiency:

NEMA Guaranteed Efficiency: