

PRODUCT INFORMATION PACKET



Model No: 752A
Catalog No: 752A

OEM Replacement Motor, 1/4,1/6,1/8,1/10 HP, 1 Ph, 60 Hz, 115 V, 1075 RPM, 4 Speed, 48 Frame, OPEN



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Nameplate Specifications

Phase	1	Output HP	1/4,1/6,1/8,1/10 Hp
Output KW	0.19 kW	Voltage	115 V
Speed	1075 rpm	Service Factor	1
Frame	48	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	50 °C
Frequency	60 Hz	Current	3.9, 2.8, 2.1, 1.6 A
Duty	Air Over	Insulation Class	B
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	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	9.86 in	Frame Length	3.75 in
Shaft Diameter	0.500 in	Shaft Extension	5.5 in
Connection Drawing	614131-347	Outline Drawing	752A-S01

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.025] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

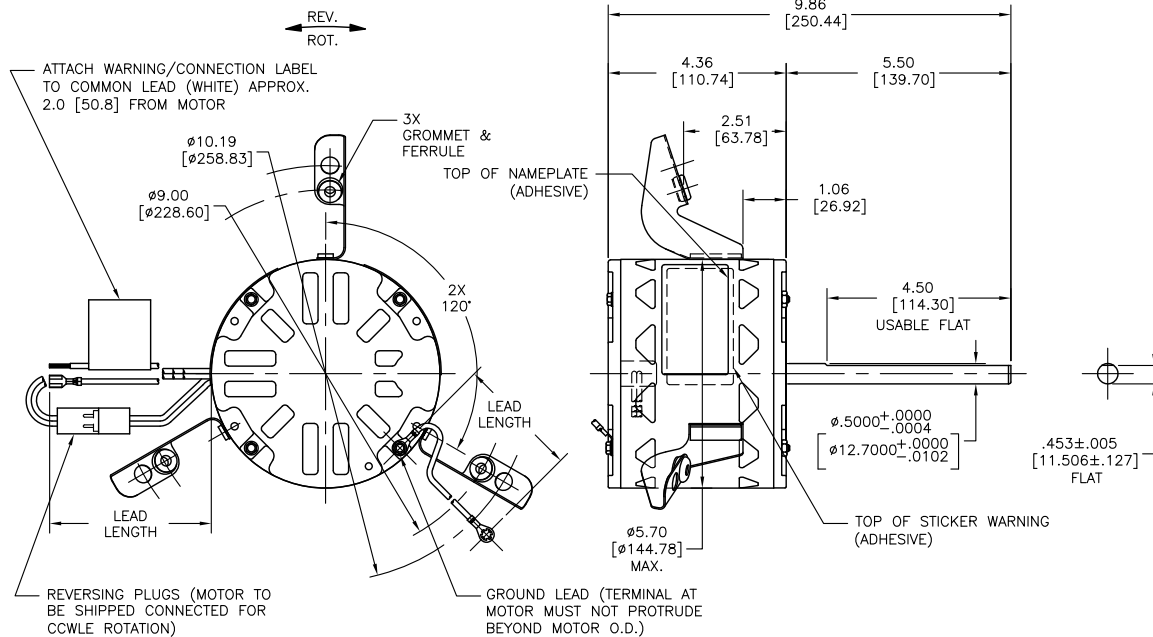
ELECTRICAL DATA:

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

LINE LEADS: NO. 18 GA., .06 [1.52] THK. PVC 105°C INSUL.

REVERSING LEADS: NO. 18 GA., .03 [.76] THK. XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03 [.76] THK. (GREEN/YELLOW) INSUL.



NOTES:

1. CTQ REQUIREMENT SEE EP000105-008.
2. RoHS & REACH ECT REQUIREMENT SEE EP000014.

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
----------	----------------------

NAMEPLATE DATA:		EXTERNAL CONNECTION DIAGRAM	
MODEL NO.: F48Z16A01 CUST. P/N: 752A HP: 1/4, 1/6, 1/8, 1/10 ROT.: REVERSIBLE RPM: 1075 TYPE: UF FRAME: 48 VOLTS: 115 PH: 1 AMPS: 3.9, 2.8, 2.1, 1.6 HZ: 60 INS.: B AMB.: 50° C DUTY: AIR OVER CAP.: 5 MFD/370 V ENCL.: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED		BROWN SEP. CAP. BRN/WHT WHITE BLACK HI YELLOW M-HI BLUE M-LO RED LO ROTATION BLACK BLACK WHITE WHITE CCWLE BLACK WHITE WHITE BLACK CWLE 614131-347	
PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT
C32678	28.6 OZ. FT.	0600680B	E46412
		FILE #	CCN #
		LR43341	4211-01

GREEN/YELLOW (GROUND)	11.0/13.0 [279.4/330.2]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76.2/127.0]	REVERSING PLUGS
BROWN	24.0/26.0 [609.6/660.4]	.25 [6.35] FEMALE SPADE
BROWN/WHITE	24.0/26.0 [609.6/660.4]	.25 [6.35] FEMALE SPADE
RED	24.0/26.0 [609.6/660.4]	.50 [12.70] SKIN
BLUE	24.0/26.0 [609.6/660.4]	.50 [12.70] SKIN
YELLOW	24.0/26.0 [609.6/660.4]	.50 [12.70] SKIN
BLACK	24.0/26.0 [609.6/660.4]	.50 [12.70] SKIN
WHITE	24.0/26.0 [609.6/660.4]	.50 [12.70] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

LEAD DATA

CRITICAL TO QUALITY CHARACTERISTICS (CTQs)	DRAWING REVISION C	REVISION BY GELINE ZHAO	DATE 09-20-2024
PROCESS	ECR-0237012	APPROVED BY DEXIAN LI	DATE 09-20-2024
ENGINEERING	ECR DESCRIPTION SEE ECR		
APPLICATION	COPYRIGHT REGAL-BELOIT AMERICA, INC. ALL RIGHTS RESERVED.		
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LIFE			

ENCLOSURE

DRAWN BY: G-ZHAO

DATE: 07-08-2014

APPROVED BY: C-ZHOU

DATE: 07-08-2014

REFERENCE: -

THIRD ANGLE PROJECTION

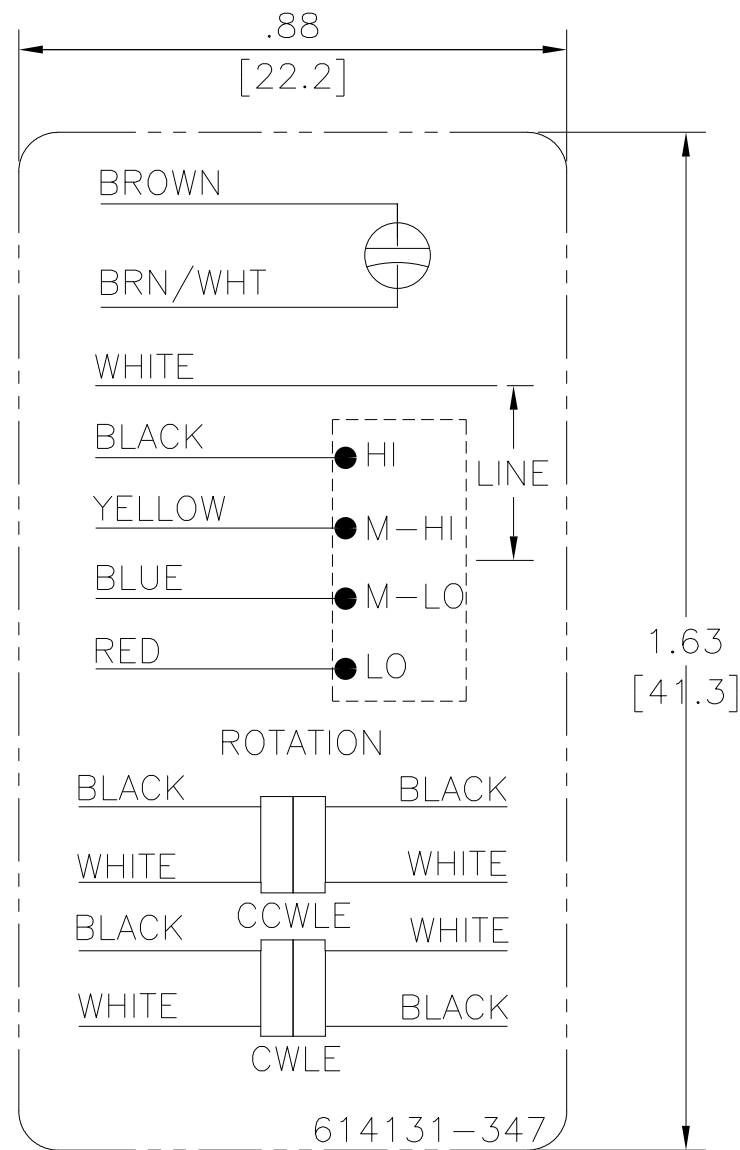
SIZE DWG NO

C

752A

SHEET 1

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.	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.
DESCRIPTION	MODEL-RFHP-48FR OUTLINE
MATERIAL	-
PROCESS/FINISH	-
SIZE DWG NO	752A
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.

REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED			DRAWN BY: L. GRADO			 Regal Beloit America, Inc.	
C	J. RUPERT	04-08-2022								
ECO	APPROVED BY	DATE	DEC.	INCH	mm	ANGLE	DATE:		DESCRIPTION CONN DIAGRAM-EXTERNAL	
NMR-0213458	J. RUPERT	04-08-2022	.X	±0.1	[±2.5]	±0.5°	02-05-2009			
ECO DESCRIPTION			.XX	±0.02	[±0.51]		APPROVED BY:		MATERIAL	
REVISED FOR UP ISSUE			.XXX	±0.005	[±0.127]		C. CONTRERAS			
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			.XXXX	±0.0005	[±0.0127]		DATE:		PROCESS/FINISH	
			REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381] X 45°				02-05-2009			
			CORNER FILLETS R.02 [.51]				REFERENCE		SIZE	
			MACHINED SURFACES							
			mm SHOWN IN [BRACKETS]				THIRD ANGLE PROJECTION		DWG NO	SHEET
									A 4 of 13	1
									614131-347	

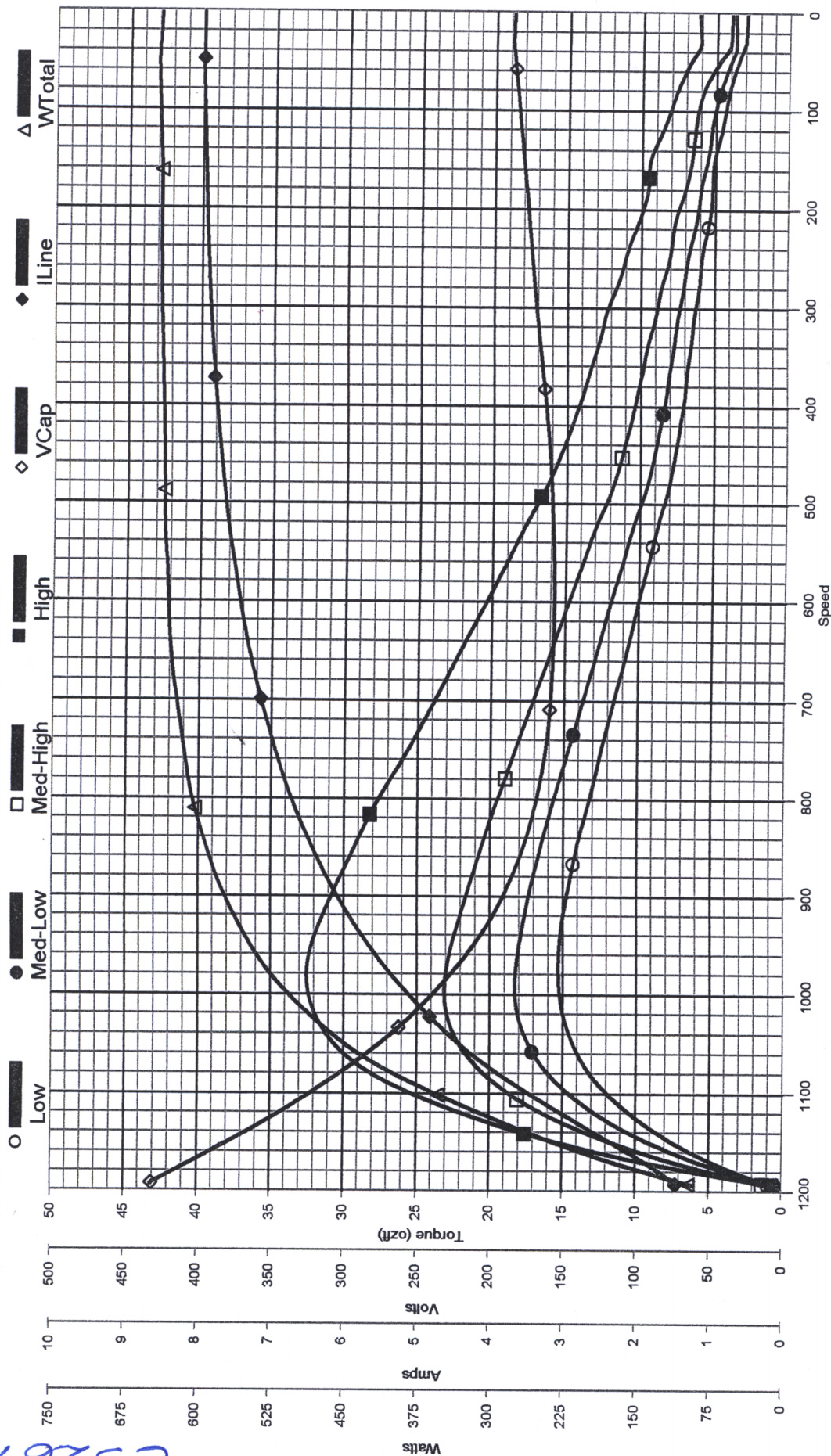
C32678

C32678
F48Z16A01/752A

Monday, June 05, 2006 12:18 AM

AO Smith

MultiSpeed Project: 0600680



TRACKING #: 10049386

SBU: Heating & Air Cond

ENGINEER: CARLA CHANEY

TECHNICIAN: DAN THOMPSON

TORQUE CELL: 250-1 inlb

NP RPM: 1075

SPEEDS: 4

MOTOR #: 1

COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES

MODEL: 0600680B

FRAME: 48

PHASES: 1

VOLTS: 115.0

HERTZ: 60

RUN CAP: 5.00

COMMENT 1:

COMMENT 3:

DESCRIPTION: SYNC-0

TYPE: PSC

BENCH: 1

HP: 0.25

ROTATION: CCW

BDT: 15.31

LRA: 3.40

LRT: 2.92

COMMENT 4:

AO Smith

Performance Test Results For 0600680

(High Speed)

06-05-2006
12:06 am

TRACKING #: 10049386
SBU: Heating & Air Cond
ENGINEER: CARLA CHANEY
TECHNICIAN: DAN THOMPSON
TORQUE CELL: 250-1 inlb
NP RPM: 1075
SPEEDS: 4
MOTOR #: 1
COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
MODEL: 0600680B
FRAME: 48
PHASES: 1
VOLTS: 115.0
HERTZ: 60
RUN CAP: 5.00
COMMENT1:
COMMENT 3:

DESCRIPTION: SYNC-0
TYPE: PSC
BENCH: 1
HP: 0.25
ROTATION: CCW
BDT: 32.53
LRA: 7.99
LRT: 6.22
COMMENT 4:

Resistance: Start Mainl Friction: -1.1856 ozft @ 200 RPM
03-02 01-02 Friction + Wind: -0.4939 ozft @ 1080 RPM
Inertia: 0.0100 ozft

Spec	Before	After
10.00	4.727	4.836
0.00		

23.8 °C
23.7 °C

Down Test Results (Torque In ozft):

% Load	Torque	RPM	Vline	VCap	VStart	Iline	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1193.0	114.6	431.4	393.9	1.45	1.57	0.83	92.0	0.0	0.0	55.4	0.00
NP+100	7.68	1175.0	114.2	409.7	377.8	1.76	1.58	0.78	156.3	80.1	51.2	77.8	0.11
NP+80	13.98	1155.0	113.8	384.9	357.9	2.21	1.86	0.73	218.8	143.3	65.5	87.0	0.19
NP+60	18.91	1135.0	113.5	360.5	337.5	2.68	2.27	0.69	273.0	190.5	69.8	89.7	0.26
NP+50*	21.00	1125.0	113.5	348.9	327.5	2.91	2.50	0.66	298.1	209.6	70.3	90.3	0.28
NP+40	22.90	1115.0	113.6	338.0	317.9	3.13	2.73	0.64	322.2	226.6	70.3	90.6	0.30
NP+25*	25.40	1100.0	113.9	322.6	304.2	3.46	3.07	0.61	356.6	247.9	69.5	90.5	0.33
NP+20	26.14	1095.0	114.1	317.6	299.7	3.57	3.18	0.61	367.5	254.0	69.1	90.2	0.34
FL	28.30	1078.0	114.4	301.2	284.6	3.92	3.55	0.57	402.3	270.7	67.3	89.7	0.36
NP	28.62	1075.0	114.5	298.3	281.9	3.97	3.62	0.57	408.1	273.0	66.9	89.8	0.37
NP-20	30.33	1055.0	114.6	280.1	264.6	4.33	4.01	0.53	441.6	284.0	64.3	89.0	0.38
NP+25*	30.65	1050.0	114.6	275.8	260.5	4.42	4.10	0.53	448.8	285.6	63.6	88.6	0.38
NP-40	31.42	1035.0	114.6	263.7	248.5	4.64	4.35	0.50	468.4	288.6	61.6	88.1	0.39
NP+50*	31.80	1025.0	114.6	256.2	240.9	4.79	4.50	0.49	480.2	289.2	60.2	87.5	0.39
NP-60	32.10	1015.0	114.6	249.1	233.7	4.92	4.66	0.47	491.4	289.1	58.8	87.2	0.39
NP-80	32.46	995.0	114.7	236.1	220.0	5.18	4.94	0.45	511.6	286.6	56.0	86.1	0.38
MT	32.53	979.4	114.7	226.9	209.9	5.36	5.14	0.43	525.2	282.7	53.8	85.4	0.38
BDT	32.53	979.4	114.7	226.9	209.9	5.36	5.14	0.43	525.2	282.7	53.8	85.4	0.38
NP-100	32.52	975.0	114.7	224.4	207.1	5.41	5.20	0.43	528.6	281.4	53.2	85.2	0.38
NP-200	30.08	875.0	114.6	183.8	155.6	6.27	6.18	0.35	582.7	233.6	40.1	81.1	0.31
NP-300	26.65	775.0	114.7	165.1	121.5	6.84	6.83	0.31	610.9	183.3	30.0	77.9	0.25
NP-400	22.97	675.0	114.8	158.4	98.4	7.23	7.29	0.30	626.1	137.6	22.0	75.4	0.18
HS	20.37	600.0	114.8	157.4	86.3	7.44	7.53	0.30	632.0	108.5	17.2	74.0	0.15
PUT	6.05	30.8	114.8	188.6	76.5	7.99	8.25	0.36	644.3	1.7	0.3	70.2	0.00
LR	6.22	0.0	114.7	187.8	75.7	7.99	8.24	0.36	643.0	0.0	0.0	70.2	0.00

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

AO Smith

Performance Test Results For 0600680

(Med-High Speed)

06-05-2006
12:10 am

TRACKING #: 10049386
SBU: Heating & Air Cond
ENGINEER: CARLA CHANEY
TECHNICIAN: DAN THOMPSON
TORQUE CELL: 250-1 inlb
NP RPM: 1075
SPEEDS: 4
MOTOR #: 1
COMMENT 2:
CUSTOMER: DISTRIBUTION SERVICES
MODEL: 0600680B
FRAMES: 48
PHASES: 1
VOLTS: 115.0
HERTZ: 60
RUN CAP: 5.00
COMMENT1:
COMMENT 3:
DESCRIPTION: SYNC-0
TYPE: PSC
BENCH: 1
HP: 0.25
ROTATION: CCW
BDT: 23.10
LRA: 5.56
LRT: 3.97
COMMENT 4:

Resistance: Start Mainl Friction: -1.2523 ozft @ 200 RPM
03-02 01-02 Friction + Wind: -0.5173 ozft @ 1080 RPM
Inertia: 0.0103 ozft

Spec 10.00 0.00
Before 66.406 6.387 @23.1 °C
After 66.605 6.445 @22.9 °C

Down Test Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	Iline	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1194.6	114.5	377.8	346.8	0.80	0.88	0.72	64.1	0.0	0.0	70.0	0.00
NP+100	6.11	1175.0	114.3	353.6	328.3	1.15	0.92	0.67	114.5	63.7	55.6	87.1	0.09
NP+80	10.63	1155.0	114.2	330.7	310.1	1.53	1.18	0.63	159.4	109.0	68.4	91.2	0.15
NP+60	14.22	1135.0	114.2	309.6	292.8	1.89	1.52	0.59	199.0	143.2	72.0	92.2	0.19
NP-50*	15.72	1125.0	114.2	289.5	284.5	2.06	1.69	0.57	217.0	156.9	72.3	92.2	0.21
NP+40	17.04	1115.0	114.3	289.9	276.3	2.23	1.86	0.55	233.6	168.6	72.2	91.6	0.23
NP-25*	18.68	1100.0	114.3	276.0	264.3	2.45	2.10	0.53	256.3	182.3	71.1	91.5	0.24
NP+20	19.16	1095.0	114.3	271.5	260.3	2.53	2.18	0.52	263.4	186.2	70.7	91.1	0.25
NP	20.73	1075.0	114.3	254.3	244.8	2.81	2.49	0.48	289.8	197.8	68.2	90.2	0.27
NP-20	21.88	1055.0	114.5	239.0	230.6	3.06	2.77	0.45	312.8	204.8	65.5	89.3	0.27
NP+25*	22.10	1050.0	114.6	235.5	227.3	3.12	2.84	0.45	318.0	205.9	64.8	88.9	0.28
NP-40	22.62	1035.0	114.8	225.5	217.8	3.29	3.03	0.43	332.3	207.8	62.5	88.0	0.28
NP+50*	22.85	1025.0	114.8	219.2	211.7	3.39	3.14	0.42	340.6	207.8	61.0	87.5	0.28
NP-60	23.01	1015.0	114.8	213.2	205.7	3.49	3.25	0.41	348.2	207.3	59.5	86.9	0.28
BDT	23.10	999.8	114.8	204.6	196.9	3.62	3.41	0.39	358.1	204.9	57.2	86.2	0.27
MT	23.10	999.8	114.8	204.6	196.9	3.62	3.41	0.39	358.1	204.9	57.2	86.2	0.27
NP-80	23.10	995.0	114.8	202.0	194.1	3.66	3.45	0.38	361.0	204.0	56.5	85.9	0.27
NP-100	22.97	975.0	114.8	191.9	183.4	3.82	3.63	0.37	371.4	198.7	53.5	84.7	0.27
NP-200	21.14	875.0	114.7	155.9	138.4	4.37	4.28	0.30	400.9	164.1	40.9	80.0	0.22
NP-300	18.91	775.0	114.6	140.5	107.7	4.73	4.71	0.27	418.3	130.1	31.1	77.2	0.17
NP-400	16.51	675.0	114.7	135.3	87.2	5.00	5.04	0.26	430.3	98.9	23.0	75.0	0.13
HS	14.77	600.0	114.7	134.7	75.5	5.15	5.22	0.26	434.7	78.6	18.1	73.6	0.11
LR	3.97	0.0	114.6	160.8	52.9	5.56	5.77	0.31	443.6	0.0	0.0	69.6	0.00
PUT	3.97	0.0	114.6	160.8	52.9	5.56	5.77	0.31	443.6	0.0	0.0	69.6	0.00

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

TRACKING #: 10049386
 SBU: Heating & Air Cond
 ENGINEER: CARLA CHANEY
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 1075
 # SPEEDS: 4
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0600680B
 FRAME: 48
 PHASES: 1
 VOLTS: 115.0
 HERTZ: 60
 RUN CAP: 5.00
 COMMENT1:
 COMMENT 3:

DESCRIPTION: SYNC-0
 TYPE: PSC
 BENCH: 1
 HP: 0.25
 ROTATION: CCW
 BDT: 18.29
 LRA: 4.23
 LRT: 3.69
 COMMENT 4:

Resistance: Start Main1 Friction: -1.1719 ozft @ 200 RPM
 03-02 01-02 Friction + Wind: -0.5158 ozft @ 1080 RPM
 Inertia: 0.0104 ozft

Spec Before 10.00 0.00
 66.286 7.990 @22.7 °C
 After 66.469 8.039 @22.6 °C

Down Test Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	Iline	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1193.1	114.7	330.4	303.2	0.53	0.61	0.63	47.3	0.0	0.0	77.8	0.00
NP+100	4.72	1175.0	114.4	311.3	289.2	0.83	0.64	0.59	85.1	49.2	57.8	89.6	0.07
NP+80	8.28	1155.0	114.3	291.3	273.9	1.13	0.82	0.55	119.5	84.9	71.0	92.5	0.11
NP+60	11.09	1135.0	114.3	272.6	258.9	1.41	1.08	0.52	150.0	111.7	74.5	93.1	0.15
NP-50*	12.25	1125.0	114.3	264.0	251.9	1.54	1.21	0.50	163.5	122.3	74.8	92.9	0.16
NP+40	13.28	1115.0	114.3	255.7	245.1	1.67	1.34	0.49	176.2	131.4	74.6	92.3	0.18
NP-25*	14.60	1100.0	114.3	243.7	235.0	1.84	1.53	0.46	193.6	142.5	73.6	92.1	0.19
NP+20	14.98	1095.0	114.3	239.9	231.7	1.90	1.59	0.46	199.0	145.6	73.1	91.6	0.20
NP	16.24	1075.0	114.4	225.2	218.8	2.11	1.83	0.43	219.3	154.9	70.6	90.9	0.21
NP-20	17.16	1055.0	114.6	212.0	206.9	2.31	2.05	0.40	237.1	160.7	67.8	89.6	0.22
NP+25*	17.34	1050.0	114.6	209.0	204.1	2.35	2.10	0.40	241.2	161.6	67.0	89.6	0.22
NP-40	17.79	1035.0	114.8	200.4	196.1	2.48	2.24	0.38	252.2	163.4	64.8	88.6	0.22
NP+50*	18.00	1025.0	114.9	195.1	190.9	2.56	2.34	0.37	258.7	163.7	63.3	88.0	0.22
NP-60	18.16	1015.0	114.9	189.9	185.8	2.63	2.42	0.36	264.5	163.6	61.8	87.5	0.22
NP-80	18.29	995.0	114.9	180.3	176.1	2.77	2.58	0.34	274.6	161.5	58.8	86.3	0.22
BDT	18.29	992.6	114.9	179.2	174.9	2.78	2.60	0.34	275.6	161.1	58.5	86.3	0.22
MT	18.29	992.6	114.9	179.2	174.9	2.78	2.60	0.34	275.6	161.1	58.5	86.3	0.22
NP-100	18.22	975.0	114.8	171.6	166.9	2.89	2.72	0.33	282.7	157.6	55.8	85.2	0.21
NP-200	16.97	875.0	114.8	140.4	128.3	3.32	3.24	0.27	307.2	131.8	42.9	80.6	0.18
NP-300	15.19	775.0	114.7	126.9	101.1	3.61	3.59	0.24	320.8	104.5	32.6	77.5	0.14
NP-400	13.25	675.0	114.5	122.1	82.0	3.81	3.84	0.23	327.7	79.4	24.2	75.1	0.11
HS	11.89	600.0	114.8	122.0	71.3	3.94	4.00	0.23	332.6	63.3	19.0	73.5	0.08
PUT	3.65	33.3	114.8	144.8	41.2	4.23	4.41	0.28	337.3	1.1	0.3	69.5	0.00
LR	3.69	0.0	114.7	144.5	40.8	4.23	4.41	0.27	336.4	0.0	0.0	69.3	0.00

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

Performance Test Results For 0600680

(Low Speed)

06-05-2006
12:17 am

TRACKING #: 10049386
SBU: Heating & Air Cond
ENGINEER: CARLA CHANEY
TECHNICIAN: DAN THOMPSON
TORQUE CELL: 250-1 inlb
NP RPM: 1075
SPEEDS: 4
MOTOR #: 1
COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
MODEL: 0600680B
FRAME: 48
PHASES: 1
VOLTS: 115.0
HERTZ: 60
RUN CAP: 5.00
COMMENT 1:
COMMENT 3:

DESCRIPTION: SYNC-0
TYPE: PSC
BENCH: 1
HP: 0.25
ROTATION: CCW
BDT: 15.31
LRA: 3.40
LRT: 2.92
COMMENT 4:

Resistance: Start Main1 Friction: -1.2411 ozft @ 200 RPM
03-02 01-02 Friction + Wind: -0.4948 ozft @ 1080 RPM
Inertia: 0.0099 ozft

Spec 10.00 0.00
Before 66.218 9.629 @22.5 °C
After 66.355 9.667 @22.5 °C

Down Test Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NL	0.00	1194.7	114.7	293.0	268.6	0.41	0.50	0.56	38.4	0.0	0.0	81.7	0.00
NP+100	3.95	1175.0	114.4	275.9	256.5	0.64	0.49	0.52	66.8	41.2	61.7	91.2	0.06
NP+80	6.82	1155.0	114.2	258.3	243.2	0.88	0.62	0.49	94.2	69.9	74.2	93.7	0.09
NP+60	9.05	1135.0	114.2	242.3	230.7	1.10	0.81	0.46	117.8	93.2	77.4	93.8	0.12
NP+50*	9.99	1125.0	114.2	234.9	224.8	1.20	0.92	0.45	128.5	99.7	77.6	93.8	0.13
NP+40	10.84	1115.0	114.3	227.8	219.1	1.30	1.02	0.43	138.7	107.3	77.3	93.3	0.14
NP+25*	11.95	1100.0	114.4	217.6	210.7	1.44	1.17	0.41	152.8	116.6	76.3	92.8	0.16
NP+20	12.27	1095.0	114.4	214.3	208.0	1.49	1.22	0.41	157.3	119.2	75.8	92.3	0.16
NP	13.37	1075.0	114.4	201.6	197.0	1.66	1.41	0.38	173.5	127.5	73.5	91.4	0.17
NP-20	14.15	1055.0	114.5	190.1	186.7	1.81	1.58	0.36	187.5	132.5	70.7	90.5	0.18
NP+25*	14.31	1050.0	114.5	187.5	184.2	1.85	1.62	0.36	190.7	133.3	69.9	90.0	0.18
NP-40	14.71	1035.0	114.6	180.1	177.3	1.95	1.74	0.34	199.7	135.1	67.7	89.4	0.18
NP+50*	14.91	1025.0	114.7	175.5	172.8	2.01	1.81	0.33	205.1	135.6	66.1	89.0	0.18
NP-60	15.07	1015.0	114.8	171.1	168.5	2.07	1.88	0.33	210.1	135.7	64.6	88.4	0.18
NP-80	15.25	995.0	114.8	163.0	160.2	2.18	2.01	0.31	219.1	134.7	61.5	87.5	0.18
BDT	15.31	975.7	114.9	156.0	152.6	2.28	2.13	0.30	226.4	132.6	58.6	86.4	0.18
MT	15.31	975.7	114.9	156.0	152.6	2.28	2.13	0.30	226.4	132.6	58.6	86.4	0.18
NP-100	15.31	975.0	114.9	155.8	152.3	2.28	2.13	0.30	226.7	132.5	58.4	86.5	0.18
NP-200	14.45	875.0	114.7	130.3	119.7	2.66	2.59	0.25	249.5	112.2	45.0	81.8	0.15
NP-300	12.84	775.0	114.6	118.5	96.3	2.91	2.89	0.23	260.1	88.3	34.0	78.0	0.12
NP-400	11.19	675.0	114.8	114.5	79.2	3.08	3.10	0.22	266.1	67.0	25.2	75.3	0.09
HS	10.01	600.0	114.8	113.9	69.2	3.17	3.22	0.22	267.6	53.3	19.9	73.5	0.07
LR	2.92	0.0	115.0	135.1	35.3	3.40	3.56	0.26	270.8	0.0	0.0	69.3	0.00
PUT	2.92	0.0	115.0	135.1	35.3	3.40	3.56	0.26	270.8	0.0	0.0	69.3	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: **752A**

Specification Number: **1**

Model Number: **F48Z16A01**

Carton Label Model
Number:

Customer Model
Number:

Sample Number:

Customer Specification
Number:

Catalog Number: **752A**

Agency Type:

CE: **N**

CSA: **Y**

UL: **Y**

CE Number:

CSA Number: **NO**

UL Number: **NO**

UL Explosion Proof Rating:

Cubic Feet Per Minute:

F2 Assembly:

UPC Model Number:

UPC Catalog Number: **786674010667**

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: **752A-S01**

Installation Diagram:

Warning Label
Diagram:

Outline Graphic: **12A**

Ambient Temperature: **50**

Insulation Class: **B**



Specification & Rating Report

Protector: AUTOMATIC	Thermal Protection:
Nameplate Overload:	Label Overload:
IP Code:	
Nameplate Enclosure: OPEN	Label Enclosure: OPEN
Frame Length: 3.75	Frame Length UOM: IN
Frame Diameter: 5.70	Frame Diameter UOM: IN
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 L Format:	
Brake:	Tachometer:
Layer Quantity:	Pallet Quantity:
Phase: 1	CurrentType:
DC Pole:	
Poles: 6	
Speeds: 4	
Duty: AIR OVER	
Shaft Diameter: 1/2	Shaft Diameter UOM: IN
Shaft Extension: 5.5	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: **DIRECT DRIVE**

BLOWER MOTOR

"FLEXIMOUNT"

Label Text 4:

Brand Line:

Vendor Line:

Motor Weight:

Shipping Weight:

Motor Weight UOM:

Shipping Weight UOM:

Armature Field Winding:

Core Length: **1.5**

Winding Code:

Core Length UOM: **IN**

Winding Specification:

Nameplate Only Instructions:

Nameplate & Label Instructions:

Label Only Instructions:



Specification & Rating Report

Rating Number: **1**

Horsepower: **1/4,1/6,1/8,1/10**

Volts: **115**

Hertz: **60**

Field Current:

Revolutions Per **1075**
Minute:

Service Factor: **1.0**

Service Factor Amps:

NEMA Code:

NEMA Design:

Customer Nameplate Number:

Kilowatts:

Amps: **3.9, 2.8, 2.1, 1.6**

Maximum Amps:

Armature Current:

Power Factor:

Service Factor Volts:

NEMA Nominal Efficiency:

NEMA Guaranteed Efficiency: