

# PRODUCT INFORMATION PACKET

FASCO®

Model No: D152A

Catalog No: D152A

Fan and Blower Motor, 1/4,1/5,1/6,1/8 HP, 1 Ph, 60 Hz, 277 V, 1050 RPM, 4 Speed, 42 Frame, OAO



Regal and Fasco are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord



**Nameplate Specifications**

Phase	1	Output HP	1/4,1/5,1/6,1/8 Hp
Voltage	277 V	Speed	1050 rpm
Service Factor	1.0	Frame	42
Enclosure	Open Air Over	Thermal Protection	Automatic
Ambient Temperature	40 °C	Frequency	60 Hz
Current	1.4,1.1,0.9 A	Duty	Continuous
Insulation Class	B	UL	Recognized
CSA	Y	CE	N
Number of Speeds	4		

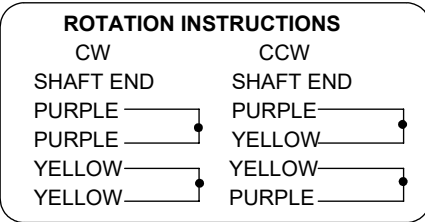
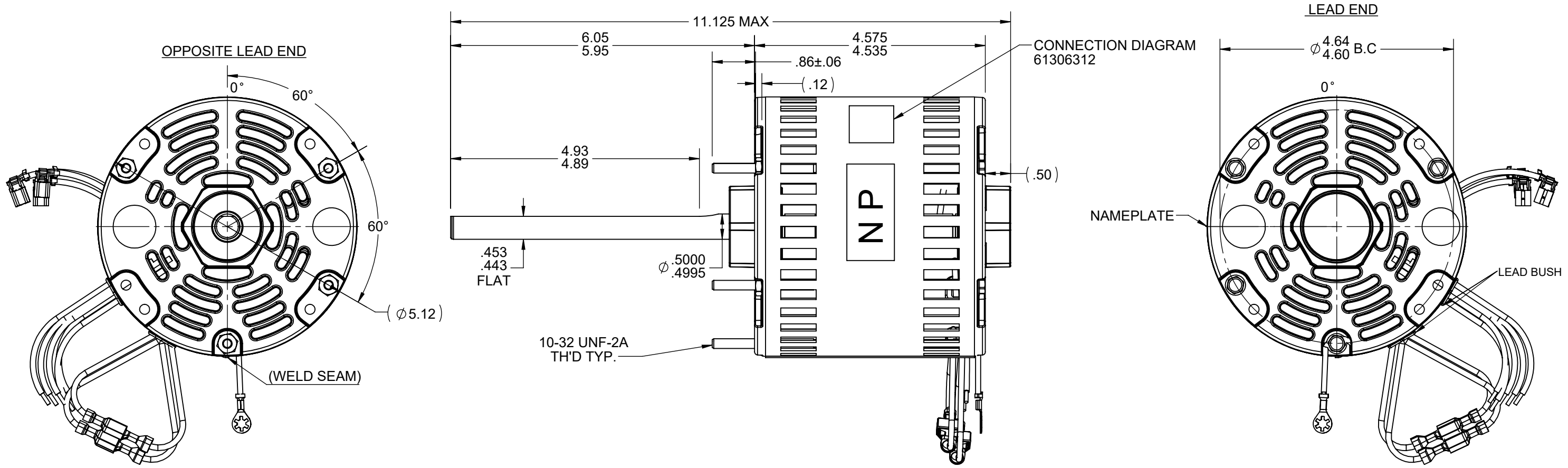
**Technical Specifications**

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Extended Studs	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Flat	Frame Length	4.58 in
Shaft Diameter	0.500 in	Shaft Extension	6 in
Outline Drawing	71870454R		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:07/03/2024

S.NO	CONNECTION	COLOR	EXIT TYPE	EXIT LOC (VIEWING LE)	GAGE	MATERIAL	WALL THK.	LENGTH (+/-1.50)	TERMINATION
1	COMMON LEAD	WHITE	LEAD BUSH	4:00	18	THERMOPLASTIC	2/64	31.0	0.5 BWS
2	CAPACITOR LEAD	BROWN	SHELL NOTCH	2:30	18	THERMOPLASTIC	2/64	15.0	0.25 FQC
3	CAPACITOR LEAD	BRN/WHT	SHELL NOTCH	2:30	18	THERMOPLASTIC	2/64	15.0	0.25 FQC
4	HIGH SPEED LEAD	BLACK	LEAD BUSH	4:00	18	THERMOPLASTIC	2/64	31.0	0.5 BWS
5	MED HI SPEED LEAD	BLUE	LEAD BUSH	4:00	18	THERMOPLASTIC	2/64	31.0	0.5 BWS
6	MED LO SPEED LEAD	ORANGE	LEAD BUSH	4:00	18	THERMOPLASTIC	2/64	31.0	0.5 BWS
7	LOW SPEED LEAD	RED	LEAD BUSH	4:00	18	THERMOPLASTIC	2/64	31.0	0.5 BWS
8	REVERSIBLE LEAD	YELLOW	LEAD BUSH	5:00	18	THERMOPLASTIC	2/64	7.0	0.25 MALE SQC
9	REVERSIBLE LEAD	YELLOW	LEAD BUSH	5:00	18	THERMOPLASTIC	2/64	7.0	0.25 FEMALE SQC
10	REVERSIBLE LEAD	PURPLE	LEAD BUSH	5:00	18	THERMOPLASTIC	2/64	7.0	0.25 MALE SQC
11	REVERSIBLE LEAD	PURPLE	LEAD BUSH	5:00	18	THERMOPLASTIC	2/64	7.0	0.25 FEMALE SQC
12	GROUND LEAD	GRN/YEL	CLAMP SCREW	6:00	18	THERMOPLASTIC	2/64	7.0	#10 SERR.EYELET

VENTILATION SYSTEM	
SHELL VENTS	OPEN
ENDSHIELD(OPP.LEAD END)	OPEN
ENDSHIELD(LEAD END)	OPEN



NOTE:  
 1. NAMEPLATE LABEL LOCATION: 270° - CENTER - READ FROM LE WITH RESPECT TO MOTOR ZERO.  
 2. OVERLOAD PROTECTOR : AUTOMATIC RESET (7AM 036)

NAMEPLATE DATA	
MODEL	71870454R
CUST P/N	D152A
HP	1/4-1/5-1/6-1/8
RPM	1050 (4SPD)
VOLTS	277
HZ	60
SPEEDS	4
AMPS	1.40-1.10-0.90-0.70
CAP REQ'D-1	5 MFD/440 VOLTS
CAP REQ'D-2	N/R
CONN.DRW	NP24X350208
ROTATION	REVERSIBLE

DRAWING REVISION CA	REVISION BY Muralidar	REV DATE/© DATE 04/08/2024
REQUEST NUMBER ECR-0232875	APPROVED BY TRSK	DATE 04/08/2024
REQUEST NUMBER DESCRIPTION UPDATED THE NP FORMAT PER NMR		
<small>COPYRIGHT (PER REVISION DATE) 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.</small>		

PRIMARY DIMENSIONS ARE INCH  
 mm DIMENSIONS IN [BRACKETS]  
 ARE FOR REFERENCE ONLY

DRAWN BY BHANU	Regal Rexnord Regal Beloit America, Inc.	
DATE 06/05/2023	DESCRIPTION	
APPROVED BY NV	OUTLINE	
DATE 06/05/2023	CUSTOMER NAME: FASCO DISTRIBUTION CO.	
REFERENCE 71860403	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 71870454R
		SHEET 1 OF 1

## Winding and Test Specification

**WTS # 82870454-1**

**Revision # 1**

**Rev. Date : May 31, 2023**

**First Made for : 71870454**

### WTS Nameplate Data

<b>Horsepower</b>	1/4-1/5-1/8	<b>RPM</b>	1050 (4 SPD)
<b>Voltage</b>	277	<b>Amps</b>	1.40 1.10 0.90
<b>Frequency</b>	60	<b>Phases</b>	1
<b>Capacitor</b>	5.0 $\mu$ fd	<b>Cap Volts</b>	440

**Test Volts : 277**                      **Low Spd St Volts : 190**  
**Test Frequency : 60**  
**Test Instructions : 24A105040AA-P1**

### Winding

### Resistance

	Min	Nominal	Max
<b>Main *</b>	41.91	44.12	46.33
<b>X Main</b>	7.71	8.12	8.53
<b>Y Main</b>	7.71	8.12	8.53
<b>Z Main</b>	7.71	8.12	8.53
<b>W Main</b>			
<b>Start</b>	69.22	72.86	76.50

### N. L. Performance Data

### Full Load Performance

	N. L. Performance Data			Cap. Volts	Full Load Performance						
	Amps	Watts			Amps	Watts		Speed	Torque		
	Nominal	Nominal	Max		Nominal	Max	Nominal	Max	Nominal	Min	Nominal
<b>High</b>	0.47	115	138	444	1.23	1.35	329	345	1080	18.9	21.0
<b>Med. High</b>	0.33	84	101		0.92	1.01	243	255	1080	14.0	15.6
<b>Medium</b>											
<b>Med. Low</b>	0.25	65	78		0.72	0.79	188	197	1080	10.9	12.1
<b>Low</b>	0.20	52	62		0.57	0.63	149	156	1080	8.6	9.6

### Max. Torque

### Locked Rotor

	RPM	Torque	
		Min	Nominal
		<b>High</b>	967
<b>Med. High</b>		16.7	18.5
<b>Medium</b>			
<b>Med. Low</b>		13.1	14.6
<b>Low</b>		10.5	11.7

Amps	Watts	Torque
Nominal	Nominal	Nominal
2.40	555	6.3
	407	4.7
	313	3.6
	247	2.9

### Customer/Special Load Points

	Speed	Torque		Watts		Amps	
	Nominal	Min	Nominal	Nominal	Max	Nominal	Max
	<b>High</b>	1050	21.8	22.9	365	383	1.38
<b>Med. High</b>	1050	16.2	17.1	270	284	1.03	1.13
<b>Medium</b>							
<b>Med. Low</b>	1050	12.6	13.3	208	218	0.80	0.88
<b>Low</b>	1050	10.1	10.6	166	174	0.65	0.71

\* Large wire size may be double stranded.

Regal Beloit Confidential Information



**Motor Details**

**Model :** 71870454R

**Catalog Number :**

**General:**

Application : **DIST SALES**  
 Phases : **1**  
 # of Speeds : **4**  
 Testspec : **82870454-1**  
 Horiz/Vertical : **HOR**  
 Shell Enclosure : **OPEN**  
 Endshield Enclosure : **OPEN**

Motor Category : **COMPLETE MOTOR**  
 Production Status : **PROD**

**Nameplate Data:**

Horsepower : **1/4-1/5-1/8**  
 RPM : **1050(4SPD)**  
 Voltage : **277**  
 FL Amps : **1.4-1.1-0.9**  
 Capacitor 1mFd/V : **5.00/440**  
 Additional Information : **N/R**

Stock Status :  
 Approved For Sale :  
 Restricted Model :  
 Customer : **FASCO DISTRIBUTION**  
 Customer Part# : **D152A**

**Miscellaneous:**

Fullload RPM - HI : **1080**  
 Poles : **6**  
 Rotation : **CCW/CW**  
 Thermal Protection :  
 Finish Color: **STD GRAY**

GE Type : **KCP**  
 Time Rating : **AO**  
 Frequency : **60**  
 Insulation Class: **B**  
 Capacitor 2mFd/V : **N/R**

**OVERLOAD INFORMATION::**

Protector: **24A100514P11**  
 Catalog No: **7AM036A54838C**

GE Frame : **42**  
 Shell Length : **4.125**  
 Drains : **N**  
 Est. Weight : **-10**  
 Capacitor By : **N/R**

**THERMAL CUT-OFF INFORMATION:**

TCO: **N/A**  
 Catalog No: **N/A**

Overload Temp : **150/140**  
 Vendor Name: **TEXAS INSTRUMENTS**

**U.L.CONSTRUCTION FILES:**

Motor Construction: **E46035(excluding SME)**  
 Over Load : **E27885(excluding SME)**

Overload Temp : **N/A**  
 Vendor Name: **N/A**

**Shaft:**

PE Type : **FLAT**  
 PE Length : **6.00**  
 PE Diameter : **.5**  
 PE Flat Length : **4.91**

Class B Insulation : **E306343(excluding SME)**  
 CSA(REY) : **MC236833(excluding SME)**

**Endshields:**

PE Material : **AL**  
 PE Hub Type : **STD**  
 PE Oiler : **N/R**  
 PE Oil Plug : **N/R**  
 PE Mounting Holes : **N/R**

OPE Type : **N/R**  
 OPE Length : **N/R**  
 OPE Diameter : **0**  
 OPE Flat Length : **N/R**

**Bearings:**

PE Bearing Type : **BALL**  
 Bearing Protection : **No**

OPE Material : **AL**  
 OPE Hub Type : **STD**  
 OPE Oiler : **N/R**  
 OPE Oil Plug : **N/R**  
 OPE Mounting Holes : **N/R**

**Mounting:**

Base : **N/R**  
 Clamp Screw : **Yes**

OPE Bearing Type : **BALL**  
 Rohs Compliant : **No**

**Extended Clamp Screws:**

PE Pattern :  
 PE Length : **0.86**  
 PE Nut Qty : **1**  
 Head End : **OPE**  
 Nut Thickness : **.12**

Lug : **N/R**  
 Weld Screw : **No**

**Lead & Cord :**

Lead End : **OPE**  
 Lead Exit H/W : **NYLON GROMMET**  
 Lead Exit H/W Orient. : **STD**

OPE Pattern :  
 OPE Length : **0**  
 OPE Nut Qty : **0**  
 Screw Size : **#10**

**Note :** Exit position is viewed from the Lead End with the Shell Weld at 6:00.

**Grounding :**

Type : **LEAD**  
 Exit Type : **CLAMPSCREW**  
 Length : **7.00**  
 Terminal : **#10 SERRATED EYELET**

Lead Type :  
 Lead Harness Desc : **N/R**

**Diagrams and Dimensions :**

Outline Drawing : **71870454R**  
 Connection Diagram : **24B200217 Fig# 22**

Location : **6:00** viewed from **OPE** with Oil boss at 12:00  
 AWG Size : **18**  
 Color : **GRN-YEL**  
 Ins.Material & Thickness **2/64 THROMPLAST**

**Notes :**

C-Dimension : **11.13**  
 Connection Label : **NP24X350208**

**This document is the property of the Regal Beloit Company containing proprietary and confidential information.**

Date of last revision : **14-NOV-23**

