

PRODUCT INFORMATION PACKET

FASCO®

Model No: D291A

Catalog No: D291A

Fan Coil & Air Conditioner Motor, 1/10,1/15,1/25,1/40 HP, 1 Ph, 60 Hz, 115 V, 1050 RPM, 4 Speed,
42 Frame, OAO



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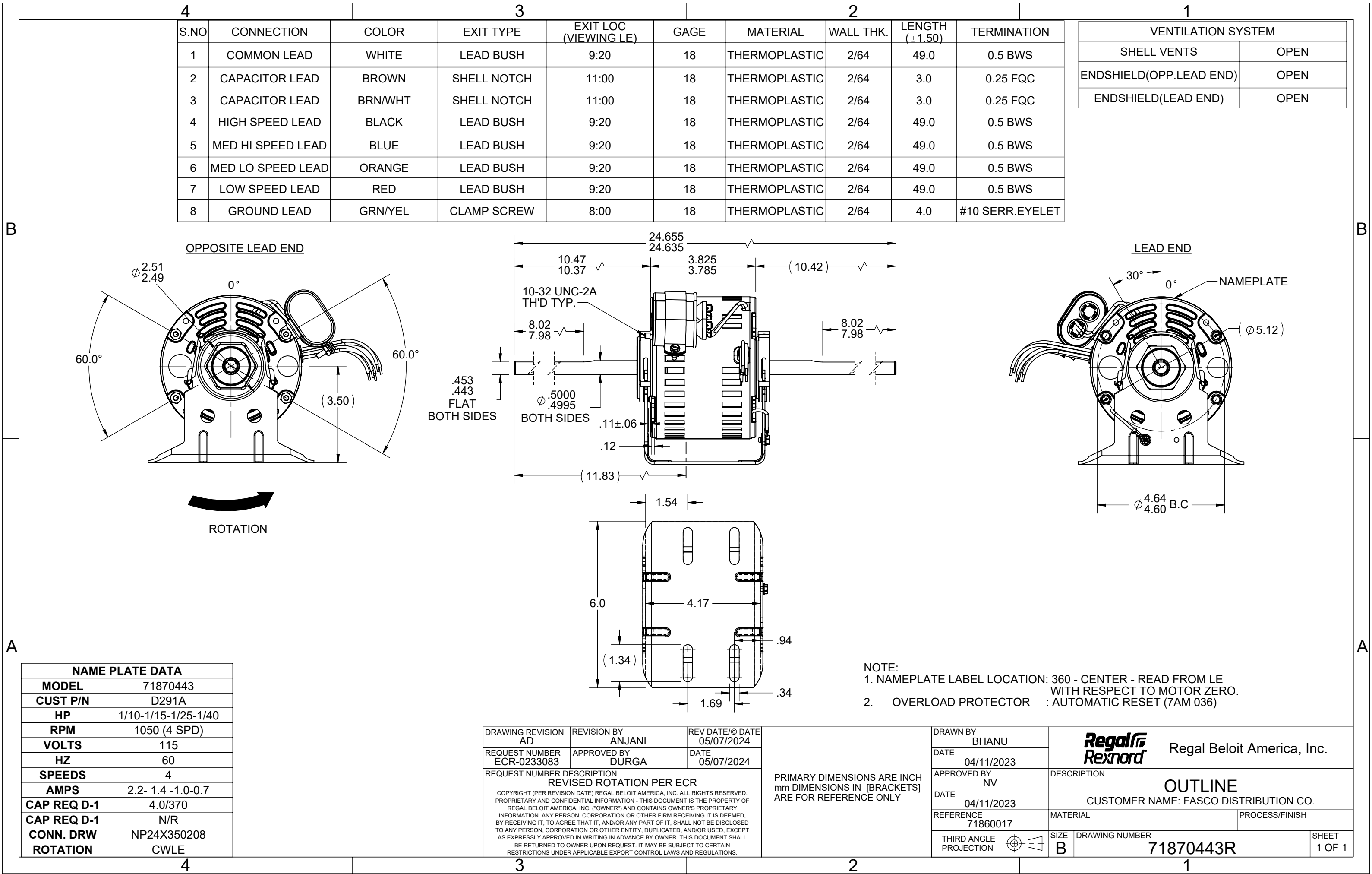
Nameplate Specifications

Phase	1	Output HP	1/10,1/15,1/25,1/40 Hp
Voltage	115 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	2.2,1.4,1.0,0.7 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	Counterclockwise Lead End
Mounting	Resilient Base	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Flat	Frame Length	3.83 in
Shaft Diameter	0.500 in	Shaft Extension	10.4X.5X10.42 in
Outline Drawing	71870443R		

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Winding and Test Specification

WTS # 82870443-1

Revision # 1

Rev. Date : Apr 14, 2023

First Made for : 71870443

WTS Nameplate Data

Horsepower	1/10-1/15-1/25-	RPM	1050(4 SPD)
Voltage	115	Amps	2.20 1.40 1.00
Frequency	60	Phases	1
Capacitor	4.0 μ fd	Cap Volts	370

Test Volts : 115

Low Spd St Volts : 75

Test Frequency : 60

Test Instructions : 24A105040AA-P1

Winding

Resistance

	Min	Nominal	Max
Main *	18.56	19.53	20.51
X Main	7.01	7.38	7.75
Y Main	7.01	7.38	7.75
Z Main	8.91	9.38	9.84
W Main			
Start	98.56	103.75	108.93

N. L. Performance Data

	Amps	Watts		Cap. Volts
	Nominal	Nominal	Max	
High	1.34	84	101	353
Med. High	0.68	44	53	
Medium				
Med. Low	0.46	29	35	
Low	0.33	21	25	

Full Load Performance

Amps		Watts		Speed	Torque	
Nominal	Max	Nominal	Max	Nominal	Min	Nominal
1.99	2.19	199	209	1050	9.1	10.1
1.23	1.35	119	125	1050	5.6	6.2
0.84	0.92	79	83	1050	3.8	4.2
0.61	0.67	57	60	1050	2.6	2.9

Max. Torque

	RPM	Torque	
		Min	Nominal
High	969	9.7	10.7
Med. High		6.0	6.7
Medium			
Med. Low		4.1	4.6
Low		2.9	3.3

Locked Rotor

Amps	Watts	Torque
Nominal	Nominal	Nominal
3.23	315	2.7
	191	1.6
	128	1.0
	91	0.7

Customer/Special Load Points

	Speed	Torque		Watts		Amps	
	Nominal	Min	Nominal	Nominal	Max	Nominal	Max
High	1050	9.6	10.1	199	209	1.99	2.19
Med. High	1050	5.9	6.2	119	125	1.23	1.35

	Medium							
	Med. Low	1050	4.0	4.2	79	83	0.84	0.92
	Low	1050	2.8	2.9	57	60	0.61	0.67

* Large wire size may be double stranded.

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Motor Details



Model :	71870443R	Catalog Number :	
General:			
Application :	DIST SALES	Motor Category :	COMPLETE MOTOR
Phases :	1	Production Status :	PROD
# of Speeds :	4	Stock Status :	
Testspec :	82870443-1	Approved For Sale :	
Horiz/Vertical :	HOR	Restricted Model :	
Shell Enclosure :	OPEN	Customer :	DISTRIBUTION SERVICE
Endshield Enclosure :	OPEN	Customer Part# :	D291A

Nameplate Data:

Horsepower :	1/10-1/15-1/25-1/40	GE Type :	KCP
RPM :	1050(4SPD)	Time Rating :	AO
Voltage :	115	Frequency :	60
FL Amps :	2.2- 1.4 -1.0-0.7	Insulation Class:	B
Capacitor 1mFd/V :	4.00/370	Capacitor 2mFd/V :	N/R
Additional Information :	N/R		

Miscellaneous:

Fullload RPM - HI :	1050	GE Frame :	42
Poles :	6	Shell Length :	3.375
Rotation :	CW	Drains :	N
Thermal Protection :		Est. Weight :	-10
Finish Color:	STD GRAY	Capacitor By :	RBC

OVERLOAD INFORMATION::

Protector:	24A100514P11	Overload Temp :	150/140
Catalog No:	7AM036A54838C	Vendor Name:	TEXAS INSTRUMENTS

THERMAL CUT-OFF INFORMATION:

TCO:	N/A	Overload Temp :	N/A
Catalog No:	N/A	Vendor Name:	N/A

U.L.CONSTRUCTION FILES:

Motor Construction:	E46035(excluding SME)	Class B Insulation :	E306343(excluding SME)
Over Load :	E27885(excluding SME)	CSA(REY) :	MC236833(excluding SME)

Shaft:

PE Type :	FLAT	OPE Type :	N/R
PE Length :	10.42	OPE Length :	10.42
PE Diameter :	.5	OPE Diameter :	.5
PE Flat Length :	8	OPE Flat Length :	8

Endshields:

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

Bearings:

PE Bearing Type :	BALL	OPE Bearing Type :	BALL
Bearing Protection :	No	Rohs Compliant :	No

Mounting:

Base :	RB	Lug :	N/R
Clamp Screw :	Yes	Weld Screw :	No
Base:			
Type :	STD 29	Height :	3.5
Reversed :	Y	Assembly Angle :	360 degrees CW from Oil boss viewed from OPE of the motor.

Extended Clamp Screws:

PE Pattern :
PE Length : **0.11**
PE Nut Qty : **1**
Head End : **OPE**
Nut Thickness : **.12**

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

Lead & Cord :

Lead End : **OPE** Lead Type : **SINGLE COND**
Lead Exit H/W : **NYLON GROMMET** Lead Harness Desc : **N/R**
Lead Exit H/W : **STD**
Orient. :

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

Grounding :

Type : **BASE** Location : **8:00** viewed from **OPE** with Oil boss at 12:00
Exit Type : **CLAMPSCREW** AWG Size : **18**
Length : **4.00** Color : **GRN-YEL**
Terminal : **#10 SERRATED** Ins.Material &
 EYELET Thickness **2/64 THRMOPLAST**

Diagrams and Dimensions :

Outline Drawing : **71870443R** C-Dimension : **24.65**
Connection Diagram : **24B200217 Fig# 2** Connection Label : **NP24X350208**

Notes :

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Date of last revision : **26-DEC-23**

