

PRODUCT INFORMATION PACKET



Model No: 048S17D2053

Catalog No: B322

Fan and Blower Motor, 0.17 HP, 1 Ph, 60 Hz, 115 V, 1800 RPM, 48Y Frame, DP



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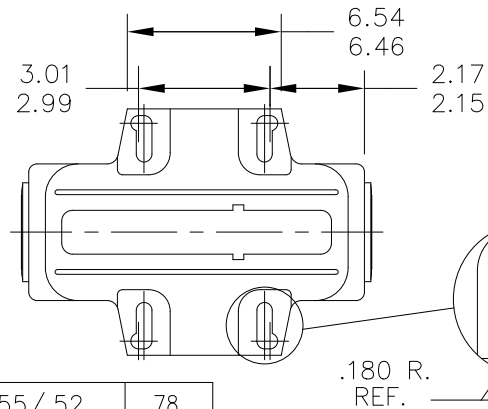
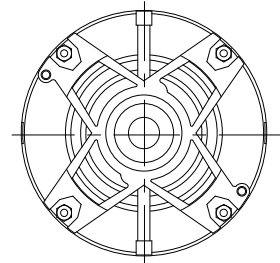
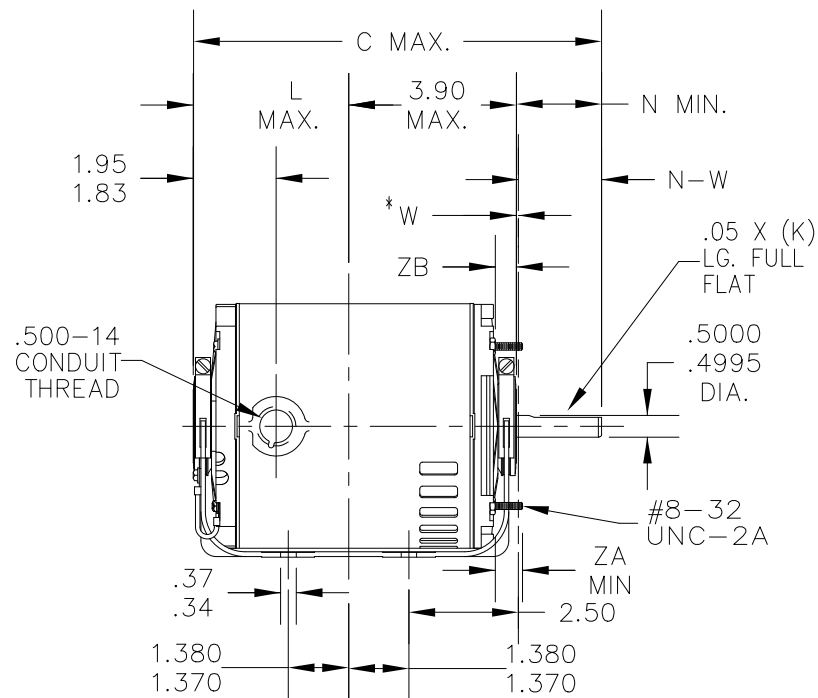
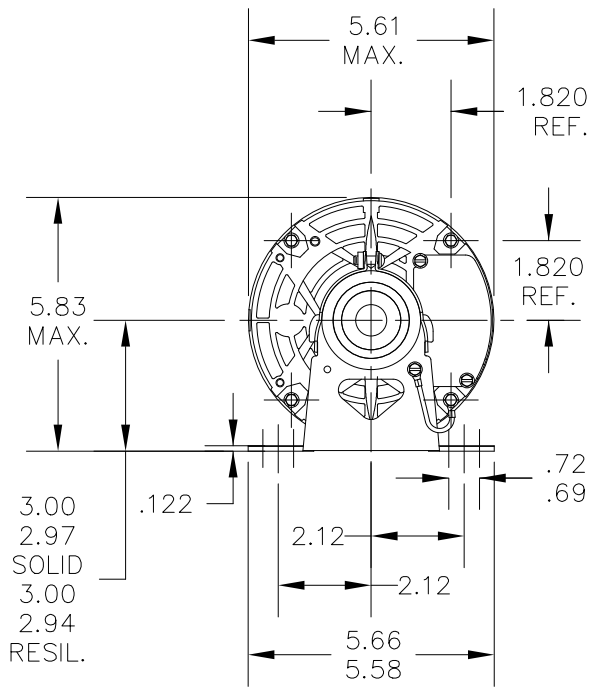
Nameplate Specifications

Phase	1	Output HP	0.17 Hp
Output KW	0.13 kW	Voltage	115 V
Speed	1725 rpm	Service Factor	1.35
Frame	48Y	Enclosure	Drip Proof
Thermal Protection	Automatic	Efficiency	55 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	3.6 A	Power Factor	32.1
Duty	Continuous	Insulation Class	B
Design Code	NO DESIGN CODE	KVA Code	S
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Split Phase	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	18 Ohms	Mounting	Resilient Base - Extended Studs
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	9.32 in
Shaft Diameter	0.500 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	52A111273P1	Connection Drawing	52A105379AA

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W* IS A CLEARANCE DUE TO VARIATION IN PARTS AND ASSEMBLY.

2	KH	36	48Y	10.32	1.62	4.50	1.88	2.01/1.79	.55/.52	.78
1	KH	32	48Y	9.32	1.62	3.59	1.88	2.01/1.79	.55/.52	.78
P	TYPE	RBC SIZE	NEMA FR	C	K	L	N	N-W	ZB	ZA

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED
6	CHG FROM MARATHON TO REGAL REXNORD LOGO	KVDG 05-10-2024	DS	DEC.	INCHES
5	LOGO WAS DAYTON	PVR 06/13/13	ST	.X	±0.1
4	CHANGED 'ZA' DIMENSION PER IS12-5406	UD 11/07/12	DS	.XX	±0.02
3	UPDATED AS PER IS05-2299	PKG 09/14/05		.XXX	±0.005
2	CHG MADE PER IS05-1477	PKG 06/29/05		.XXXX	±0.0005

Regal Rexnord

Regal Beloit America, Inc.

TITLE OUTLINE
DRIP PROOF- RESIL. BASE - BALL

MAT'L.

FINISH

DRAWN DS 01/05/05

CHK

APPD DS 01/05/05

SCALE 1=1

REF

FMF

PREV

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RFP

DIST

CAD FILE 52A111273

SIZE

A

DRAWING NO.

52A111273

REV.

5

52A105379AA 6

REV

SIZE DRAWING NO. A

THIRD ANGLE PROJECTION

REV.	DESCRIPTION	DATE	APPROVED
6	UPDATED FORMAT	12/01/05	MAM

EITHER ROTATION-SINGLE VOLTAGE-TYPE KC OR KH-WITH THERMAL PROTECTOR

ALTERNATE THERMOSTAT CONNECTION

BACKUP PROTECTOR FOR UL507 ONLY

PI BROWN OR PURPLE

LINE

THERMAL PROTECTOR

P2 OR BROWN

15

T1 OR BLUE

5

T8 OR RED

5

START CAPACITOR FOR KC MOTORS ONLY LEAD T5 OR BLACK CONNECTED DIRECTLY TO SWITCH FOR KH MOTORS

T5 OR BLACK

J9 OR BLACK

A

T4 OR YELLOW

E

SWITCH

LINE

STANDARD ROTATION

BELOW BOARD

P2

P1

T1

T8

5

4

LEAD CLAMP (WHEN SPEC.)

2

J9

A

T4

E

LINE

SWITCH BOARD CONNECTION

ALTERNATE THERMOSTAT CONNECTION

BACKUP PROTECTOR FOR UL507 ONLY

PI BROWN OR PURPLE

LINE

THERMAL PROTECTOR

P2 OR BROWN

15

T1 OR BLUE

5

T8 OR RED

5

START CAPACITOR FOR KC MOTORS ONLY LEAD T5 OR BLACK CONNECTED DIRECTLY TO SWITCH FOR KH MOTORS

T5 OR BLACK

J9 OR BLACK

A

T4 OR YELLOW

E

SWITCH

LINE

REVERSED ROTATION

BELOW BOARD

P2

P1

T1

T8

5

4

LEAD CLAMP (WHEN SPEC.)

2

J9

A

T4

E

LINE

SWITCH BOARD CONNECTION

NOTE #1 - TO REVERSE ROTATION INTERCHANGE RED (T8) AND BLACK (J9-KC OR T5-KH) LEADS.

NOTE #2 - WHEN MORE THAN ONE CAPACITOR IS USED CONNECT IN PARALLEL.

SWITCH (C) - 115D958AB

REF. DIAG. - 121A851

CONN. LABEL - 52X332048

SIGNATURES		DATE
MODEL	M.D. PAPE	06/29/87
DETAIL	.	.
CHECKED	.	.
ENGRG	.	.
MFG	.	.

FOR ADDITIONAL INFO REFER TO:

APPLIED PRACTICES

DIMENSIONS ARE IN INCHES

MATERIAL

SOLID MODEL: 52A105379AA

TITLE

CONNECTION DIAGRAM

FMF - 30 FR SWITCH REDESIGN

SIZE A

DRAWING

SCALE: 1.000

REF. No:

SHEET 1 of 1

REGAL-BELOIT CORPORATION

52A105379AA

REV 6

CERTIFICATION DATA SHEET

Model#: 48S17D2053 P
 CONN. DIAGRAM: 52A105379AA
 OUTLINE: 52A111273P1

WINDING#: 52X331756P1 NONE 0
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/6	0.13	1800	1725	48Y	DP	S	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	115	3.6	ACROSS THE LINE	CONTINUOUS	B3	1.35	40	3300

FULL LOAD EFF: 55	3/4 LOAD EFF: 50.2	1/2 LOAD EFF: 41.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 32.1	3/4 LOAD PF: 27.9	1/2 LOAD PF: 23.4	74	SPLIT PHASE	-

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.19 LB-FT	23.3	17.72 LB-FT 217	22.65 LB-FT 277	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	10 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RESILIENT BASE-EXTENDED STUDS	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	BEACON 325	SGL SPL EXT	0.500 x 1.88 IN SEF WITH 1.62 IN FULL FLAT	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE NONE					
	NONE NONE PPR					
	BRAKE: NONE NONE					
	NONE P/N NONE					
	NONE NONE					
	NONE FT-LB	NONE V	NONE Hz			

DATE: 06/28/2017 06:42:56 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.



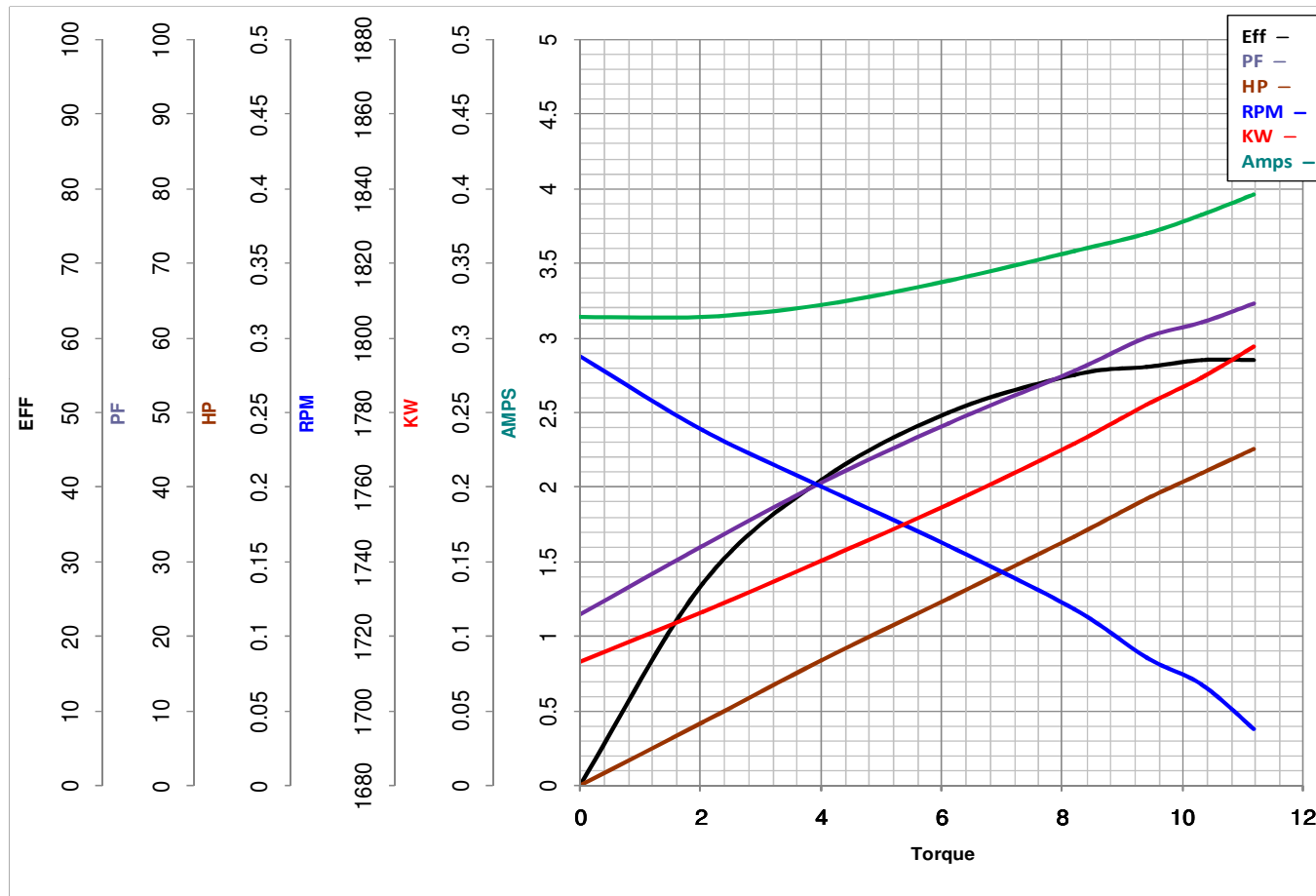
REGAL REXNORD CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

115
60
0.167

 Volts
 HZ
 HP
HP 0.167PHASE 1Model No 48S17D2053VOLTS 115Catalog No B322HZ 60RPM 1725

Torque in Oz.Ft

FL TORQUE 8.19 Oz.Ft
 BD TORQUE 22.7 Oz.Ft
 LR TORQUE 17.72 Oz.Ft

FL AMPS 3.6
 PU TORQUE 18.7 Oz.Ft
 LR AMPS 23.32

WINDING 52X331756P1-0

Date 1/7/2019

REV 1 - CHANGED LOGO FROM MARATHON TO LEESON - 3/25/2025

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 048S17D2053

(Model No. may contain prefix and/or suffix characters)

Catalog No : B322

Rework No : N/A

Directives :

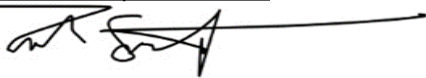
Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25