

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 048S17D2107

Catalog No: B206

0.25 HP Fan and Blower HVAC/R Motor, 1 phase, 1800 RPM, 115 V, 48Z Frame, ODP
Self Cooled Motors



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.

©2021 Regal Beloit Corporation, All Rights Reserved. MC017097E

REGAL

Nameplate Specifications

Output HP	0.25 Hp	Output KW	0.19 kW
Frequency	60 Hz	Voltage	115 V
Current	5.0 A	Speed	1725 rpm
Service Factor	1.35	Phase	1
Efficiency	58 %	Power Factor	59
Duty	Continuous	Insulation Class	B
Design Code	NO DESIGN CODE	KVA Code	P
Frame	48Z	Enclosure	Drip Proof
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	22

Technical Specifications

Electrical Type	Split Phase	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Mounting	Resilient Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Single Special Extension
Overall Length	9.62 in	Shaft Diameter	0.500 in
Shaft Extension	2.01 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	52A111269P1	Connection Drawing	52A105379AA

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:04/30/2021

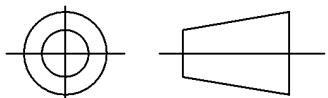
SHEET

REV

52A111269

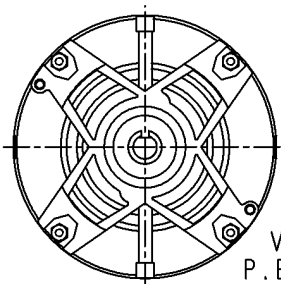
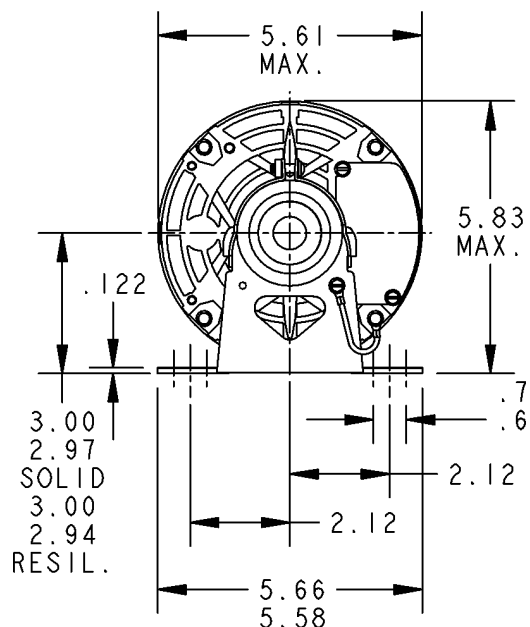
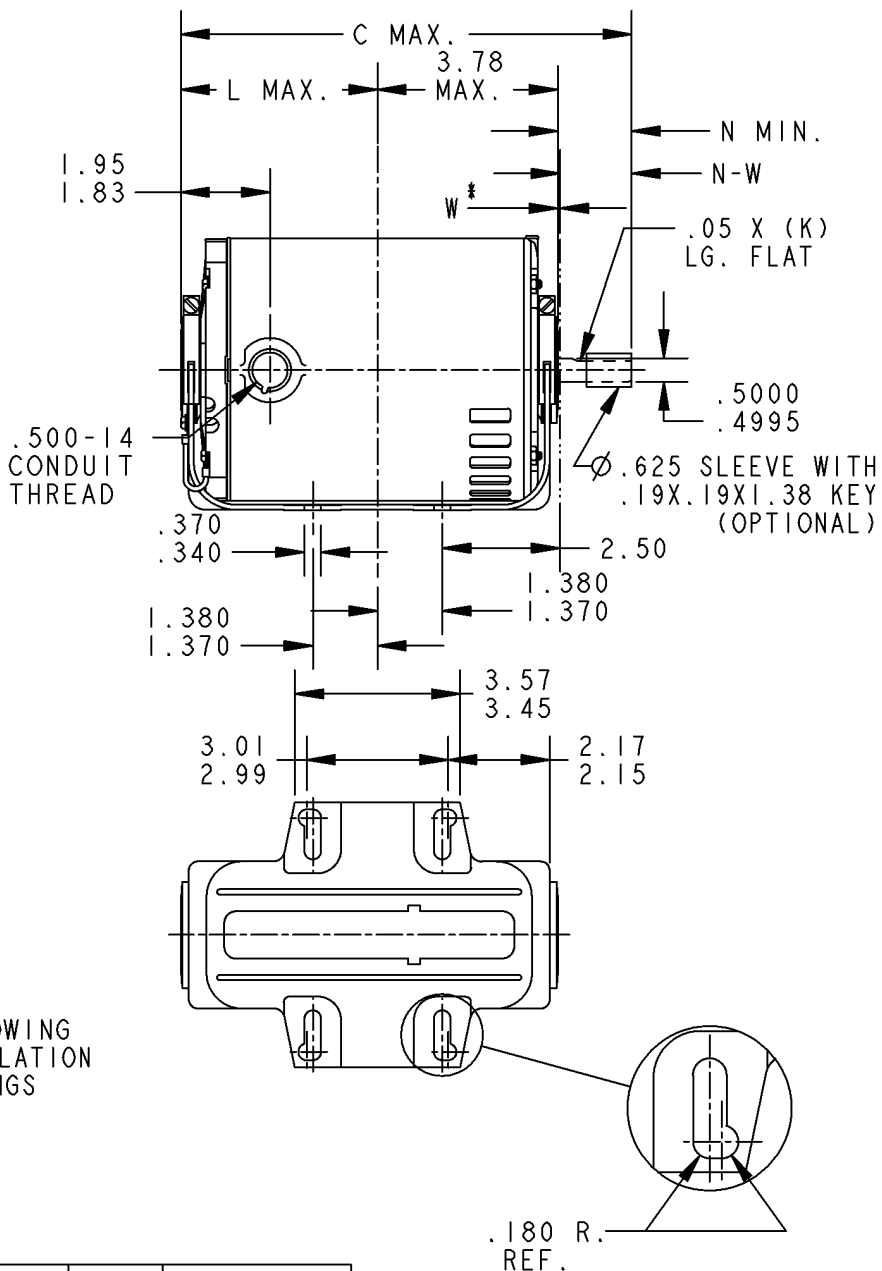
SIZE DRAWING NO. A

THIRD ANGLE PROJECTION



REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
3	ADDED BASE PER IS05-3105	12/01/05	RAJKUMAR
4	CHG SHELL VENTS FOR ONLY BOTTOM HALF PER IS07-0974	05/09/07	MADHU

VIEW SHOWING
P.E. VENTILATION
OPENINGS

I	K KH	33	48Y	9.62	1.62	3.96	1.88	2.01/1.79
P	TYPE	RBC SIZE	NEMA FR	C	K	L	N	N - W

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

SIGNATURES

DATE

MODEL

DETAIL

DURGA

12/16/04

CHECKED

ENGRG

MFG

QUALITY

ISSUED

DURGA

12/16/04

FOR ADDITIONAL INFO REFER TO:

APPLIED
PRACTICES

DIMENSIONS ARE IN INCHES

MATERIAL

SOLID MODEL: 52A111269



REGAL-BELOIT CORPORATION

TITLE

OUTLINE

FORM N - GENERAL PURPOSE MOTOR - DRIP PROOF - SOLID OR RESIL
BASE - BALL OR SLEEVE BEARING - SPECIAL MOUNTING HOLES IN BASE

SIZE DRAWING

A

52A111269

REV

4

SCALE: 0.003

REF. No: .

SHEET 1 of 1

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	.
QUALITY	.
ISSUED M.D.P.	03/08/00
SOLID MODEL: 52A105379AA	

REGAL-BELOIT CORPORATION

TITLE

CONNECTION DIAGRAM

FMF - 30 FR SWITCH REDESIGN

SIZE A

DRAWING

52A105379AA

REV 6

SCALE: 1.000

REF. No:

SHEET 1 of 1



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

MODEL #: 48S17D2107 F

CONN. DIAGRAM: 52A105379AA

OUTLINE: 52A111269P1

WINDING #: 52X332048P1 0

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/4	0.19	1800	1725	48Z	DP	P	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115	5	ACROSS THE LINE	CONTINUOUS	B3	1.35	40

FULL LOAD EFF:	58	3/4 LOAD EFF:	54	1/2 LOAD EFF:	46.1	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	59	3/4 LOAD PF:	51.4	1/2 LOAD PF:	42.7	55		SPLIT PHASE

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12.1 OZ-FT	27.7	21.6 OZ-FT 0 %	31.53 OZ-FT 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	0 SEC.		14 LBS.

***** SUPPLEMENTAL INFORMATION *****

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	0.500 x 1.88 IN SEF WITH 1.62 IN FULL FLAT AND 0.62 IN OPTIONAL SLEEVE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

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

*

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