

# PRODUCT INFORMATION PACKET



Model No: FD1024

Catalog No: FD1024

Fan and Blower Motor, 1/4 HP, 1 Ph, 60 Hz, 208-230 V, 1625 RPM, 3 Speed, 48 Frame, OPEN



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

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





### Nameplate Specifications

|                    |            |                     |               |
|--------------------|------------|---------------------|---------------|
| Output HP          | 1/4 Hp     | Output KW           | 0.19 kW       |
| Frequency          | 60 Hz      | Voltage             | 208-230 V     |
| Current            | 1.8 A      | Speed               | 1625 rpm      |
| Service Factor     | 1          | Phase               | 1             |
| Duty               | Air Over   | Insulation Class    | A             |
| Frame              | 48Y        | Enclosure           | Open Enclosed |
| Thermal Protection | Automatic  | Ambient Temperature | 40 °C         |
| UL                 | Recognized | CSA                 | Y             |
| CE                 | N          | Number of Speeds    | 3             |

### Technical Specifications

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| Electrical Type   | Permanent Split Capacitor | Starting Method       | Across The Line |
| Poles             | 4                         | Rotation              | Reversible      |
| Mounting          | Resilient Rings           | Motor Orientation     | Any             |
| Drive End Bearing | Sleeve                    | Opp Drive End Bearing | Sleeve          |
| Frame Material    | Rolled Steel              | Shaft Type            | Flat            |
| Overall Length    | 11.30 in                  | Frame Length          | 3.75 in         |
| Shaft Diameter    | 0.500 in                  | Shaft Extension       | 6.4 in          |
| Outline Drawing   | 11760-024-S01             | Connection Drawing    | 614131-111      |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/28/2022

4

3

2

1

总技术要求:

轴跳动:

轴承:

安装位置:

电气数据:

过载保护:

引线:

接地线:

铭牌数据

外部数据线

性能曲线编号

转矩在 @ ---- RPM  
(25° C)

批准样品

UL部件

文件号

指南

文件号

指南

CSA

文件号

指南

REGAL-BELOIT CORPORATION

在个别领域为用户 XXXX

提供技术支持和 RBC

每个零件都涉及电机使用和

应用环境的数据在电机的适用性

由客户自己决定。

表面粗糙度

英制公差尺寸仅供参考。

米制尺寸显示在[ ]

引线数据

颜色

长度

端子或剥线长度

无引线端机壳

无引线端端盖

有引线端机壳

有引线端端盖

密封性

用户

DISTRIBUTION SERVICES

REGAL-BELOIT CORPORATION

MODEL-RFHP-48FR

OUTLINE

图号

11760-024

比例

NONE

页号

1

版本

ECO

编制

Y.LIU

日期

08-27-2013

批准

B.SHEN

日期

08-27-2013

Ø5.70  
[Ø144.8]  
MAX

15°

10.80  
[274.3]

4.36  
[110.7]

6.44  
[163.6]

5.25  
[133.3]

1.62±.06  
[41.1±1.5]

4.92  
[125.1]

2X  
.50  
[12.7]

2X  
Ø2.25  
[Ø57.2]

Ø.4998<sup>+.0000</sup><sub>-.0005</sub>

Ø12.695<sup>+.0.000</sup><sub>-.0.013</sub>

.453±.005  
[11.51±0.13]

Model Overlay Name

Number

File Text

K:\CAD\PSCS\MOTOUT\11760-117\_01.DWG

PSCS\_MOTOUT\M9T08P4036 - DI

3 of 6

4

3

2

1

GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

END PLAY: .010 TO .063 [.25 TO 1.60]

BEARINGS: SLEEVE

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 032)

LEADS: NO. 18 GA., .06 [1.5] THK. EPDM 125°C INSUL.

REVERSING LEADS: NO. 18 GA., .03 [.8] THK. XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03 [.8] THK. (GREEN) INSUL.

NAMEPLATE DATA:

MODEL NO.: F48SG4L8

CUST. P/N: [-----]

HP: 1/4

ROT.: REVERSIBLE

RPM: 1625/3 SPD.

TYPE: UF

FRAME: 48Y

VOLTS: 208-230

PH: 1

AMPS: 1.8 (3.2 MAX)

HZ: 60

INS.: A

AMB.: 40° C

DUTY: AIR OVER

CAP.: 5 MFD/370V

ENCL: OPEN

UL LOGO

CSA LOGO

THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

SEP. CAP.

BROWN

BROWN/W

YELLOW

BLACK

BLUE

RED

HI

MED

LO

LINE

ROTATION

BLACK

WHITE

CCWLE

WHITE

BLACK

CWLE

614131-111

PERFORMANCE CURVE NO.

TORQUE @1625 RPM (25°C)

APPROVED SAMPLE

UL COMPONENT

CSA

C23332

20 OZ. FT.

EX11396

E46412

PRGY2

LR43341

4211-01

GEOMETRIC CHARACTERISTICS & SYMBOLS

FLATNESS

STRAIGHTNESS

ANGULARITY

PERPENDICULARITY (SQUARENESS)

PARALLELISM

ROUNDNESS (CIRCULARITY)

CYLINDRICITY

PROFILE OF ANY SURFACE

PROFILE OF ANY LINE

RUNOUT

TRUE POSITION

CONCENTRICITY

SYMMETRY

ASME Y14.5M 1994

UNLESS OTHERWISE SPECIFIED

DIM. TOLERANCES ARE AS FOLLOWS:

INCH

mm

ANG. ±.50 DEG

REMOVE BURRS & BREAK SHARP EDGES:

INCH

mm

CORNER FILLETS TO:

INCH

mm

MACHINE SURFACES:

INCH

mm

METRIC DIMS. SHOWN IN [BRACKETS]

DR BY:

R.RHODUS

APPD:

THIRD ANGLE PROJECTION

EDS DATE

11-11-2011

FORMAT REV

H

CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF REGAL-BELOIT CORPORATION AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF REGAL-BELOIT CORPORATION.

ALL RIGHTS RESERVED.

MAIN FRAME - OLE

OPEN

END FRAME - OLE

OPEN

MAIN FRAME - LE

OPEN

END FRAME - LE

OPEN

CUSTOMER

DISTRIBUTION SERVICES

LEAD DATA

ENCLOSURE

DESCRIPTION

MODEL-RFHP-48FR

OUTLINE

SIZE

C

DWG NO

11760-024

SCALE

NONE

SHEET

1

REV

ECO

REV BY

Y.LIU

DATE

08-27-2013

APPD

B.SHEN

DATE

08-27-2013

REV. ROT.

Ø5.70 [Ø144.8] MAX

LEAD LENGTH

15°

GROUND LEAD

TERMINAL AT MOTOR

MUST NOT PROTRUDE

BEYOND MOTOR O.D.

REVERSING PLUG

MOTOR TO BE

SHIPPED CONNECTED

FOR CCWLE ROTATION

10.80 [274.3]

4.36 [110.7]

6.44 [163.6]

TOP OF NAMEPLATE

TOP OF CONSERVATIONIST STICKER

5.25 [133.3]

USABLE FLAT

Ø.4998<sup>+.0000</sup><sub>-.0005</sub>

Ø12.695<sup>+.0.000</sup><sub>-.0.013</sub>

.453±.005

[11.51±0.13]

FLAT

1.62±.06 [41.1±1.5]

4X

#8-32 THD'S

EQUALLY SPACED ON A

Ø5.147[Ø130.73] B.C.

TOP OF WARNING STICKER

4.92 [125.1]

2X .50 [12.7]

2X Ø2.25 [Ø57.2]

4 of 6

# Uncontrolled Copy

4 3 2 1

INFORMACION GENERAL:

OSCILACION DE FLECHA: .001 [.03] L.T.I. LONG. DE EXTENSION POR PULGADA

JUEGO AXIAL: .010 A .063 [.25 A 1.60]

BALEROS: MANGA

POSICION DEL MONTAJE: TODOS ANGULOS

INFORMACION ELECTRICA:

SOBRECARGA DEL PROTECTOR: REINICIO AUTOMATICO (T.I. 7AM 032)

CABLES: CAL. NO. 18, .06 [1.5] ESP. 125°C AISLAM. EPDM

CABLES DE REVERSA: CAL. NO. 18, .03 [.8] ESP. 125°C AISLAM. XLP

CABLE DE TIERRA: CAL. NO. 18, .03 [.8] ESP. (VERDE) AISLAM.

VER NOTA 2

INFORMACION DE ETIQUETA:

MODEL NO.: F48SG4L8

CUST. P/N: [ ]

HP: 1/4

ROT.: REVERSIBLE

RPM: 1625/3 SPD.

TYPE: UF

FRAME: 48Y

VOLTS: 208-230

PH: 1

AMPS: 1.8 (3.2 MAX)

HZ: 60

INS.: A

AMB.: 40° C

DUTY: AIR OVER

CAP.: 5 MFD/370V

ENCL: OPEN

UL LOGO

CSA LOGO

THERMALLY PROTECTED

DIAGRAMA DE CONEXION EXTERNA

SEP. CAP.

BROWN

BROWN/W

YELLOW

BLACK

BLUE

RED

HI

MED

LO

LINE

ROTATION

BLACK

WHITE

BLACK

WHITE

CCWLE

WHITE

BLACK

CWLE

614131-111

CURVAS DE FUNCIONAMIENTO

TORSION @1075 RPM (25°C)

MUESTRA APROBADA

COMPONENTE UL

CSA

C23332

20 OZ. PIE

EX11396

E46412

PRGY2

LR43341

4211-01

REVISION: ECO

F

ECO-0037449

REVISADO POR: Y.LIU

FECHA: 08-27-2013

APROBADO POR: B.SHEN

FECHA: 08-27-2013

ROTACION REVERSIBLE

Ø5.70 [Ø144.8] MAX

LONG. DE CABLE

15°

LONG. DE CABLE

TERMINAL DEL CABLE DE TIERRA NO DEBE SOBRESALIR MAS ALLA DEL DIAMETRO EXTERNO DEL MOTOR

CLAVIJA REVERSIBLE MOTOR SERA ENVIADO CONECTADO PARA ROTACION CCWLE

10.80 [274.3]

4.36 [110.7]

6.44 [163.6]

PTE. SUPERIOR DE PLACA DE DATOS

PTE. SUPERIOR ETIQUETA CONSERVACIONISTA

5.25 [133.3]

PLANO USABLE

2X .50 [12.7]

2X Ø2.25 [Ø57.2]

Ø4.998<sup>+.0000</sup><sub>-.0005</sub>

Ø12.695<sup>+0.000</sup><sub>-0.013</sub>

.453±.005

11.51±0.13

PLANO

1.62±.06 [41.1±1.5]

4X TORNILLO ROSCADO 38-32 IGUALMENTE ESPACIADOS EN UN Ø5.147[Ø130.73] E.C.

4.92 [125.1]

PTE. SUPERIOR DE ETIQUETA ADVERTENCIA

| COLOR          | LONGITUD            | TERMINAL O LONGITUD DE DESFORRE |
|----------------|---------------------|---------------------------------|
| VERDE (TIERRA) | 12.0/13.0 [305/330] | #10 OJAL                        |
| NEGRO/BLANCO   | 3.0/5.0 [76/127]    | CLAVIJA DE REVERSA              |
| CAFE           | 26.0/28.0 [660/717] | .25[6.4] BANDERA                |
| CAFE/BLANCO    | 26.0/28.0 [660/717] | .25[6.4] BANDERA                |
| AMARILLO       | 26.0/28.0 [660/717] | .50[12.7] DESFORRE              |
| NEGRO          | 26.0/28.0 [660/717] | .50[12.7] DESFORRE              |
| AZUL           | 26.0/28.0 [660/717] | .50[12.7] DESFORRE              |
| ROJO           | 26.0/28.0 [660/717] | .50[12.7] DESFORRE              |
| COLOR          | LONGITUD            | TERMINAL O LONGITUD DE DESFORRE |

INFORMACION DE CABLES

Model Overlay Name

Number

File Text

K:\CAD\PCSC\MOTOUT\11760-117\_01.DWG\PCSC\MOTOUT\11760-117\_01.DWG

NOTAS:

1.- ANILLO DE RETENCION RAPIDA 615035 4 REQUERIDOS SERA EMPACADO CON CADA MOTOR

2. NO. DE PARTE DE DISTRIBUCION: FD1024 NO. DE PARTE GRAINGER: 4MA82

| CARACA - LOC | ABIERTO |
|--------------|---------|
| TAPA - LOC   | ABIERTO |
| CARACA - LC  | ABIERTO |
| TAPA - LC    | ABIERTO |

TIPO DE MOTOR

CLIENTE

DISTRIBUTION SERVICES

REGAL REGAL-BELOIT CORPORATION

DESCRIPCION: MODEL-RFHP-48FR OUTLINE

TAMAÑO: C

NUMERO DE DIBUJO: 11760-024

ESCALA: NONE

HOJA: 1

DIBUJADO POR: R.RHODUS

APROBADO POR:

TERCER ANGULO DE PROYECCION

FECHA EDS: 11-11-2011

REV. FORMATO: H

CONFIDENCIAL: ESTE DIBUJO Y SU INFORMACION SON PROPIEDAD DE USO EXCLUSIVO Y CONFIDENCIAL DE REGAL-BELOIT CORPORATION. Y NO DEBERAN SER REVELADOS, DUPLICADOS, DISTRIBUIDOS O USARSE DE OTRA MANERA SIN EL CONSENTIMIENTO ESCRITO DE REGAL-BELOIT CORPORATION. -TODOS LOS DERECHOS RESERVADOS.

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

PLANICIDAD

RECTITUD

ANGULARIDAD

PERPENDICULARIDAD (A ESQUADRA)

PARALELISMO

REDONDEZ (CIRCULARIDAD)

CILINDRICIDAD

PERFIL DE CUALQUIER SUPERFICIE

PERFIL DE CUALQUIER LINEA

VARIACION

POSICION REAL

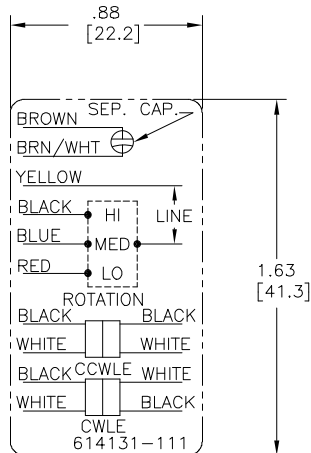
CONCENTRICIDAD

SIMETRIA

A MENOS QUE SE ESPECIFIQUE DE OTRO MODO LAS TOLERANCIAS (DEC) LAS UNIDADES SON INCHES PARA NUESTROS CLIENTES EN VARIAS AREAS. PUEDE QUE POR NO ESTAR EN LOS DATOS EN RELACION AL USO Y A ANG. 1-90 GRADOS ELIMINAR REBABON DEL MOTOR LA DE BORCION ADECUADA DEL MOTOR QUE SEA DETERMINADA POR EL FILETEAR ESQUINAS EN .020 mm 0.5 MAQUINAR SUPERFICIES DIMENSIONES EN INCHES TOLERANCIA SON DE REFERENCIA SOLAMENTE DE REFERENCIA SOLAMENTE

ASME Y14.5M 1994

4 3 2 1



## NOTES:

1. FOR USE WITH 614129 NAMEPLATE BLANK
2. ———— INDICATES DIMENSION LIMITS
3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |                    |                                                                                                       |         |                        |       |                                                                                                               |                                               |                      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--------------------|-------------------------------------------------------------------------------------------------------|---------|------------------------|-------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------|------------|
| DRAWING REVISION<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | REVISION BY<br>J. RUPERT | DATE<br>04-14-2021 | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                 |         | DRAWN BY:<br>J. RUPERT |       |  Regal Beloit America, Inc. |                                               |                      |            |
| ECO<br>NMR-0208129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | APPROVED BY<br>J. RUPERT | DATE<br>04-14-2021 | DEC.                                                                                                  | INCH    | mm                     | ANGLE |                                                                                                               |                                               | DATE:<br>05-25-2021  |            |
| ECO DESCRIPTION<br>UP ISSUED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                          |                    | .X                                                                                                    | ±0.1    | [±2.5]                 | ±0.5° | APPROVED BY:<br>T. RILEY                                                                                      | DESCRIPTION<br>CONNECTION DIAGRAM<br>EXTERNAL |                      |            |
| COPYRIGHT REGAL, BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br>PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF<br>REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY<br>INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,<br>BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br>TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br>AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br>BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br>RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS. |  |                          |                    | .XX                                                                                                   | ±0.02   | [±0.51]                |       | DATE:<br>05-25-2010                                                                                           |                                               |                      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |                    | .XXX                                                                                                  | ±0.005  | [±0.127]               |       | REFERENCE                                                                                                     | MATERIAL                                      | PROCESS/FINISH       |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |                    | .XXXX                                                                                                 | ±0.0005 | [±0.0127]              |       | THIRD ANGLE PROJECTION                                                                                        | SIZE<br>A                                     | DWG NO<br>614131-111 | SHEET<br>1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |                    | REMOVE BURRS & BREAK SHARP EDGES .003/.015 [076/381] X 45° CORNER FILLETS R.02 [51] MACHINED SURFACES |         |                        |       |                                                                                                               |                                               |                      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |                    | mm SHOWN IN [BRACKETS]                                                                                |         |                        |       |                                                                                                               |                                               |                      |            |