

PRODUCT INFORMATION PACKET



Model No: FH1076

Catalog No: FH1076

Condenser Fan Motor, 3/4 HP, 1 Ph, 60 Hz, 460 V, 1075 RPM, 2 Speed, 48 Frame, SEMI ENCL



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Nameplate Specifications

Phase	1	Output HP	3/4 Hp
Output KW	0.56 kW	Voltage	460 V
Speed	1075 rpm	Service Factor	1.0
Frame	48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	2.2 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	2

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Double Flat
Overall Length	12.62 in	Frame Length	5.13 in
Shaft Diameter	0.500 in	Shaft Extension	6.4 in
Connection Drawing	614131-244	Outline Drawing	FH1076-S01

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4

3

2

1

GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7 AM 036)

LEADS: NO. 18 GA., .06[1.5] THK. PVC 105°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.: F48N61A01
CUST. P/N: FH1076
HP: 3/4
ROT.: REVERSIBLE
RPM: 1075/2 SPD.
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 2.2
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 15 MFD/370 V
ENCL: SEMI-ENCL
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

BROWN

SEP. CAP.

YELLOW

BLACK

ORANGE

RED

HIGH SPEED

BROWN

SEP. CAP.

YELLOW

BLACK

ORANGE

RED

LO SPEED

BLACK

WHITE

BLACK

WHITE

CCWLE

WHITE

BLACK

CWLE

614131-244

PERFORMANCE CURVE NO.

TORQUE @ 1075 RPM (25°C)

APPROVED SAMPLE

UL COMPONENT

CSA

C31856

67.9 OZ. FT.

99AC220A

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

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

REV

ECO

REV BY

DATE

APPD

DATE

B

0025548

I. ORTIZ

04-27-2012

D. BALDERRAMA

04-27-2012

ROT

REV

Ø5.70

[Ø144.8]

MAX

LEAD LENGTH

15°

LEAD LENGTH

GROUND LEAD (TERMINAL AT MOTOR MUST NOT PROTRUDE BEYOND MOTOR O.D.)

TOP OF NAMEPLATE (ADHESIVE)

CONNECT BLACK & ORANGE LEADS TOGHTER FOR LOW SPEED ONLY.

REVERSING PLUG (MOTOR TO BE SHIPPED CONNECTED FOR CCWLE ROTATION.)

12.18

[309.4]

5.74

[145.8]

6.44

[163.6]

.44

[11.2]

TOP OF LABEL CONSERVATIONIST (ADHESIVE)

5.25

[133.4]

USABLE FLAT

.06

[1.5]

Ø5.000^{+0.000}_{-0.005}

Ø12.700^{+0.000}_{-0.013}

SLINGER

1.63±.06

[41.4±1.5]

#8-32 NC-2A THD'S. EXT. STUDS ON A Ø5.147[Ø130.73] BOLT CIRCLE 90°APART

TOP OF WARNING STICKER (WHEN REQ'D) (ADHESIVE)

90°±2°

.453±.005

[11.51±0.13]

FLAT

.453±.005

[11.51±0.13]

FLAT

MAIN FRAME - OLE

ENCLOSED

END FRAME - OLE

ENCLOSED

MAIN FRAME - LE

ENCLOSED

END FRAME - LE

OPEN

ENCLOSURE

CUSTOMER

DISTRIBUTION SERVICE

DR BY:

APPD:

THIRD ANGLE PROJECTION

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A NAJERA

J RUPERT

05-04-2011

05-04-2011

EDS DATE 11-11-2011

FORMAT REV G

REGAL-BELOIT CORPORATION

DESCRIPTION

MODEL-RFHP-48FR
OUTLINE

SIZE C

DWG NO FH1076

SCALE NONE

SHEET 1

3 of 8

4

3

2

1

REVISION: ECO
B 0025548

REVISADO POR: I. ORTIZ

FECHA: 04-27-2012

APROBADO POR: D. BALDERRAMA

FECHA: 04-27-2012

INFORMACION GENERAL:

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

BALEROS: BALERO

POSICION DEL MONTAJE: HORIZONTAL

INFORMACION ELECTRICA:

PROTECTOR DE SOBRECARGA REINICIO AUTOMATICO (T.I. 7AM 036)

CABLES: CALIBRE 18, .06[1.5] DE ESPESOR, LIGADO EN CRUZ, 105°C AISLANTE

CABLES REVERSIBLES: CALIBRE 18 .03[.8] DE ESPESOR, CABLE LIGADO EN CRUZ 125°C AISLANTE.

CABLE DE TIERRA: CALIBRE 18, .03 [.8] ESPESOR (VERDE) AISLANTE

INFORMACION DE ETIQUETA:

MODEL NO.: F48N61A01
CUST. P/N: FH1076
HP: 3/4
ROT.: REVERSIBLE
RPM: 1075/2 SPD.
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 2.2
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 15 MFD/370 V
ENCL: SEMI-ENCL
UL LOGO
CSA LOGO
THERMALLY PROTECTED

DIAGRAMA DE CONEXION EXTERNA

BROWN

SEP. CAP.

YELLOW

LINE

BLACK

ORANGE

RED

HIGH SPEED

BROWN

SEP. CAP.

YELLOW

LINE

BLACK

ORANGE

RED

LO SPEED

BLACK

WHITE

BLACK

WHITE

CCWLE

WHITE

WHITE

BLACK

CWLE

614131-244

CURVAS DE FUNCIONAMIENTO

TORSION @ 1075 RPM (25°C)

MUESTRA APROBADA

COMPONENTE UL

CSA

C31856

67.9 OZ. FT.

99AC220A

#ARCHIVO E46412

CCN # PRGY2

#ARCHIVO LR43341

CLASE # 4211-01

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

PLANICIDAD

RECTITUD

ANGULARIDAD

PERPENDICULARIDAD (A ESCUADRA)

PARALELISMO

REDONDEZ (CIRCULARIDAD)

CILINDRICIDAD

PERFIL DE CUALQUIER SUPERFICIE

PERFIL DE CUALQUIER LINEA

VARIACION

POSICION REAL

CONCENTRICIDAD

SIMETRIA

ASME Y14.5M 1994

REGAL-BELOIT CORPORATION (RBC) PROVEE ASISTENCIA TECNICA A NUESTROS CLIENTES EN VARIAS AREAS. DESDE QUE RBC NO RECIBE TODOS LOS DATOS EN RELACION AL USO Y A LA APLICACION DEL MOTOR, LA APLICACION ADECUADA DEL MOTOR DEBE SER DETERMINADA POR EL CLIENTE.

DIMENSIONES SIN TOLERANCIA SON DE REFERENCIA SOLAMENTE

DIBUJADO POR: A NAJERA

05-04-2011

APROBADO POR: J RUPERT

05-04-2011

TERCER ANGULO DE PROYECCION

FECHA EDS: 11-11-2011

REV. FORMATO: G

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.

REGAL BELLOIT

REGAL-BELOIT CORPORATION

DESCRIPCION: MODEL-RFHP-48FR
OUTLINE

TAMAÑO: C

NUMERO DE DIBUJO: FH1076

ESCALA:NONE

HOJA: 1

ROT
REV

Ø5.70
[Ø144.8]
MAX

LONG. CABLE

15°

LONG. CABLE

CABLE A TIERRA (LA TERMINAL DEL MOTOR NO DEBE SOBRESALIR MAS ALLA DEL DIAMETRO EX. DEL MOTOR.)

PARTE SUPERIOR PLACA DE DATOS (ADHESIVA)

CONECTAR CABLES NEGRO Y ANARANJADO PARA BAJA VELOCIDAD SOLAMENTE.

CLAVIJA REVERSIBLE (MOTOR A SER ENVIADO CON CONEXION PARA ROTACION CCWLE.)

12.18
[309.4]

5.74
[145.8]

6.44
[163.6]

.44
[11.2]

PTE SUPERIOR ETIQUETA COSERVACIONSTA (ADHESIVA)

5.25
[133.4]
PLANO UTILIZABLE

.06
[1.5]

Ø5.000+-.0000
--.0005
[Ø12.700+0.000
-0.013]

DISPERSOR

1.63±.06
[41.4±1.5]

ROSCA #8-32 NC-2A EXTENSION DEL BIRLO EN UN Ø5.147[Ø130.73] CIRCULO DE PERNO 90° APARTADO

PTE SUPERIOR ETIQUETA DE PRECAUCION (CUANDO SE REQUIERA) (ADHESIVA)

90°±2°

.453±.005
[11.51±0.13]
PLANO

.453±.005
[11.51±0.13]
PLANO

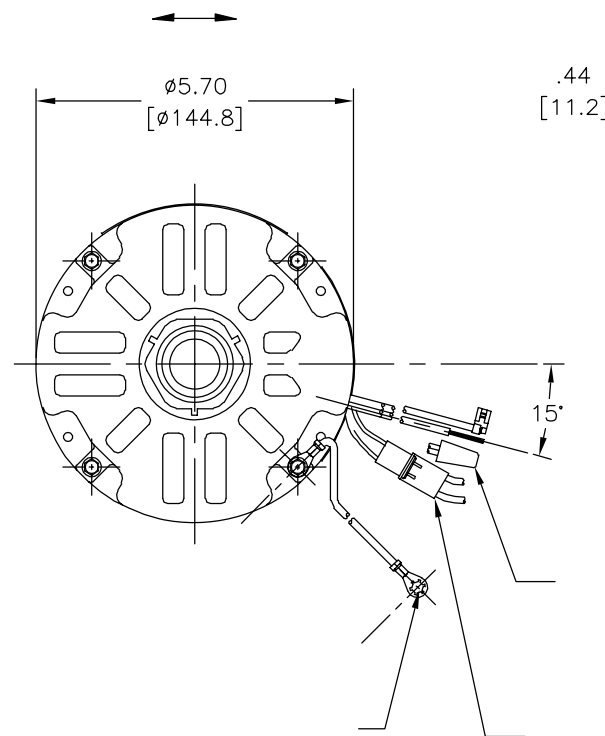
4 of 8

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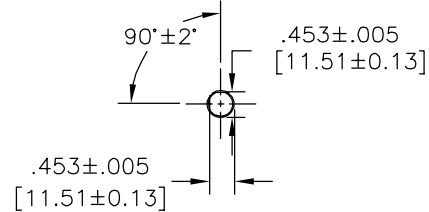
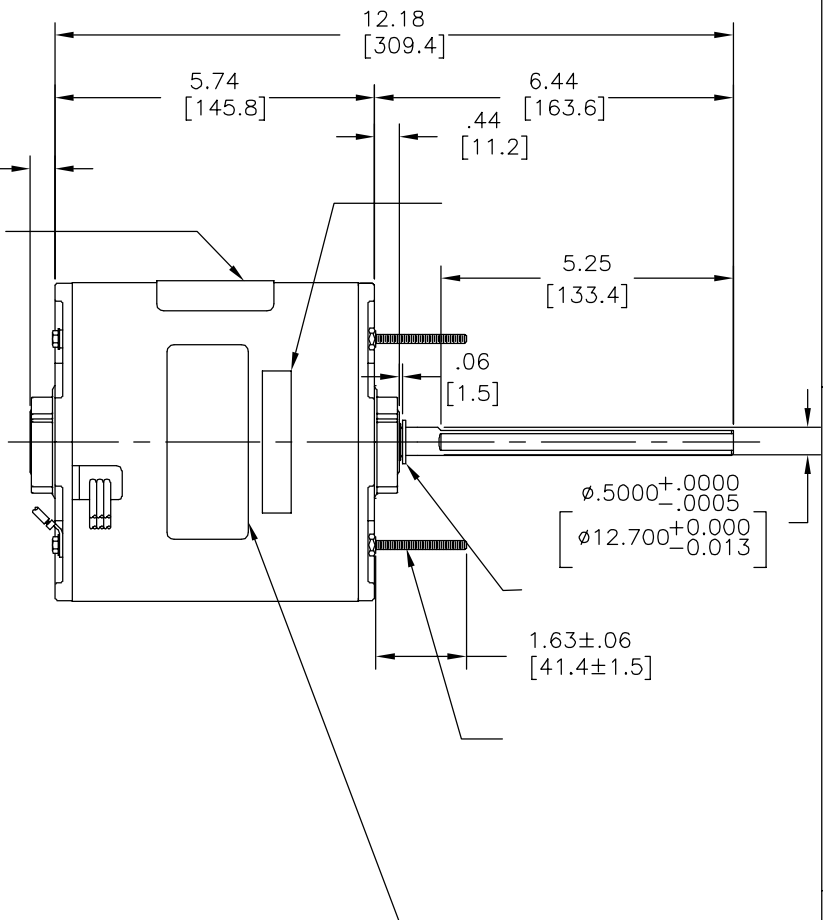
性能曲线编号	转矩在 @  RPM (25° C)	批准样品	UL部件		CSA	
			文件号	指南	文件号	指南
C31856	67.9 OZ. FT.	99AC220A	E46412	PRGY2	LR43341	4211-01

ASME Y14.5M 1994

未注公差尺寸仅供参考。



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	



 REGAL-BELOIT CORPORATION			
名称 MODEL-RFHP-48FR OUTLINE			
图幅 C	图号 FH1076		
比例 NONE			页号 1

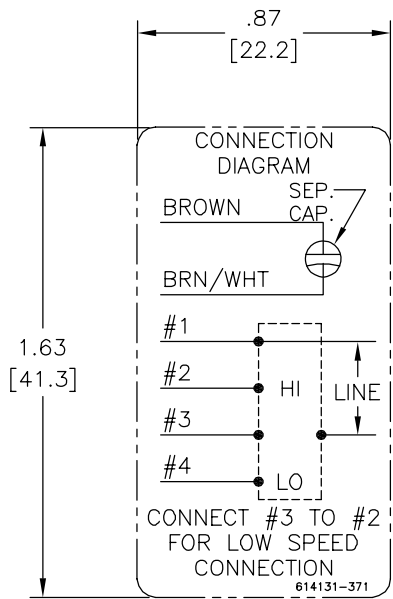
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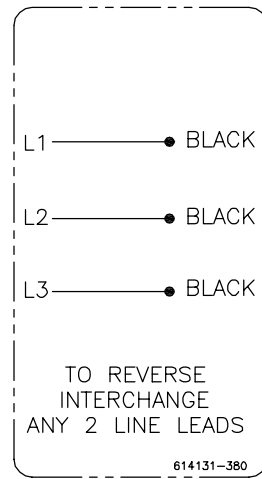
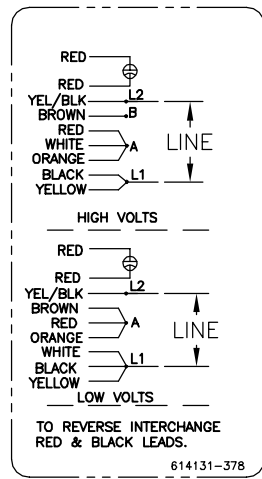
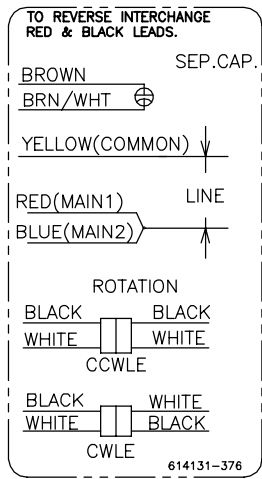
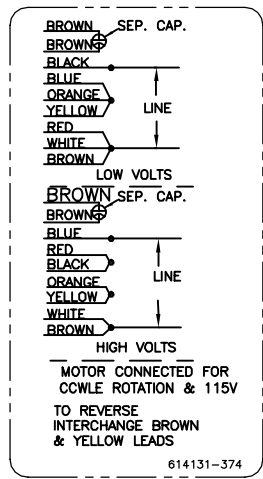
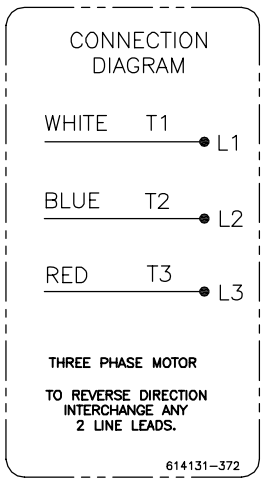
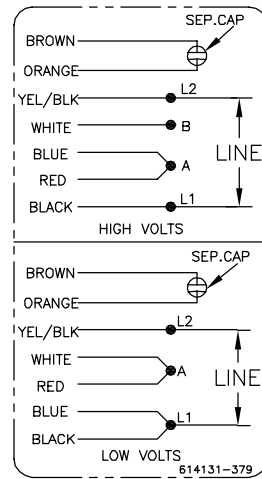
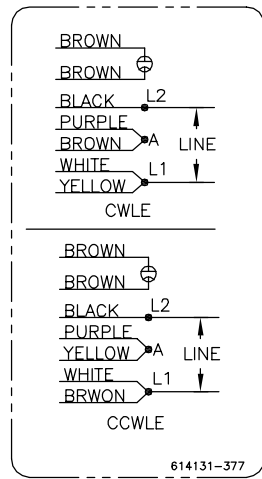
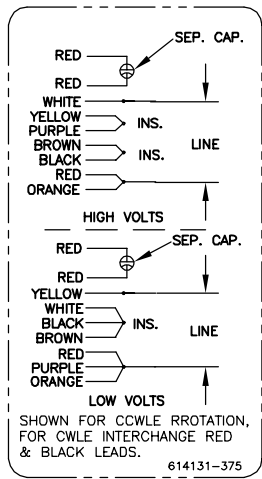
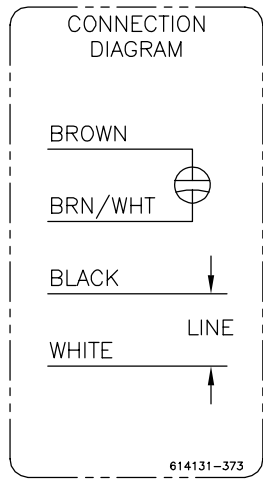
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REV	REFERENCE ECN	REFERENCE PROJECT	REV BY	DATE	APPD	DATE
D.04	00017504	0703436	Hong	04/09/2008		



1.63
[41.3]

.87
[22.2]



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.

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

UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS:

INCH X XX XXX XXXX

mm ±.1 ±.02 ±.005 ±.0005

mm ±0.5 ±0.13 ±0.013

ANG. ±.50 DEG

REMOVE BURRS & BREAK SHARP EDGES:

INCH .003-.015 mm 0.1-0.4

CORNER FILLETS TO:

INCH .020 mm 0.5

MACHINE SURFACES:

INCH 125 mm 3.2

METRIC DIMS. SHOWN IN [BRACKETS]

DR BY: jrupert

08-15-2007

APPD: cbranh

08/15/2007

THIRD ANGLE PROJECTION

EDS DATE 01-21-2007

FORMAT REV E

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A.O. SMITH

ELECTRICAL PRODUCTS COMPANY

A DIVISION OF A. O. SMITH CORPORATION

TPPP CITY, OHIO

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DESCRIPTION

CONN DIAGRAM - EXTERNAL

SIZE C

DWG NO 614131

-371 THRU -380

SCALE NONE

SHEET 38

4

3

2

1

