

PRODUCT INFORMATION PACKET

Model No: FH1024

Catalog No: FH1024

Condenser Fans Motor, 1/4 HP, 1 Ph, 60 Hz, 460 V, 1625 RPM, 2 Speed, 48 Frame, SEMI ENCLOSED



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Nameplate Specifications

Output HP	1/4 Hp	Output KW	0.19 kW
Frequency	60 Hz	Voltage	460 V
Current	.9 A	Speed	1625 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	2

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	11.74 in	Frame Length	4.25 in
Shaft Diameter	0.500 in	Shaft Extension	6.4 in
Outline Drawing	FH1024-S01	Connection Drawing	614131-104

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4

3

2

1

GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

LEADS: NO. 18 GA., .06[1.5] THK. XLP 105°C INSUL.

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

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

NAMEPLATE DATA:

MODEL NO.: F48SJ4V2
CUST. P/N: FH1024
HP: 1/4
ROT.: REVERSIBLE
RPM: 1625/2 SPD
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 0.9(1.2 MAX)
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 5MFD/370V
ENCL: SEMI-ENCLOSED
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

SEP. CAP.

BROWN

YELLOW

BLACK

RED

HI

LO

LINE

ROTATION

BLACK

WHITE

BLACK

WHITE

CCWLE

CWLE

614131-104

PERFORMANCE CURVE NO.

TORQUE @ 1625 RPM (25°C)

APPROVED SAMPLE

UL COMPONENT

CSA

C23151

19.8 OZ. FT.

89AE921

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

F

0024317

Y.LIU

03-12-2012

B.SHEN

03-12-2012

REV. ROT.

Ø5.70 [Ø144.7] MAX

TOP OF NAMEPLATE (ADHESIVE)

TOP OF WARNING STICKER (ADHESIVE)

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.)

2X 1.58 [40.1]

.44 [11.1]

11.30 [287.0]

4.86 [123.4]

6.44 [163.6]

.44 [11.1]

.06 [1.5]

5.25 [133.2] USABLE FLAT

Ø.5000^{+.0000}_{-.0005}

Ø12.700^{+.000}_{-.013}

1.63±.06 [41.4±1.5]

.453±.005 [11.51±.13] FLAT

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

TOP OF CONSERVATIONIST LABEL (ADHESIVE)

GREEN(GRD)

12.0/13.0 [305/330]

#10 EYELET

BLACK/WHITE

4.0/6.0 [102/152]

REVERSING PLUG

BROWN

26.0/28.0 [660/711]

.25[6.4] FLAG

YELLOW

26.0/28.0 [660/711]

.60[15] SKIN

BLACK

26.0/28.0 [660/711]

.60[15] SKIN

RED

26.0/28.0 [660/711]

.60[15] SKIN

COLOR

LENGTH

TERMINAL OR STRIP LENGTH

LEAD DATA

ENCLOSURE

MAIN FRAME - OLE

ENCLOSED

END FRAME - OLE

ENCLOSED

MAIN FRAME - LE

ENCLOSED

END FRAME - LE

OPEN

CUSTOMER

DISTRIBUTION SERVICE

DR BY:

Y.LIU

03-12-2012

APPD:

B.SHEN

03-12-2012

THIRD ANGLE PROJECTION

EDS DATE 11-11-2011

FORMAT REV G

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REGAL-BELOIT CORPORATION

DESCRIPTION

MODEL-RFHP-48FR OUTLINE

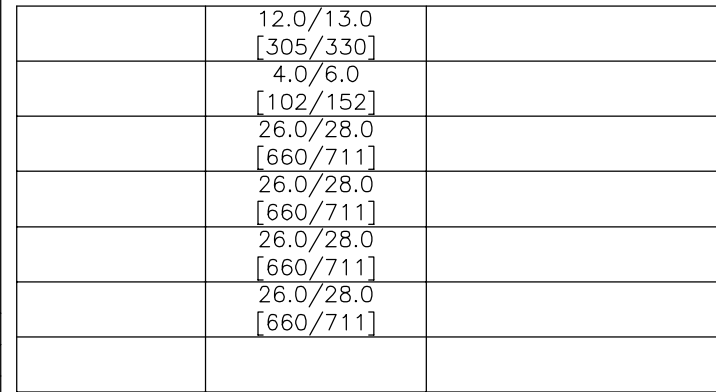
SIZE C

DWG NO FH1024

SCALE NONE

SHEET 1

3 of 8




REGAL-BELOIT CORPORATION

ESCALA: NONE	HOJA: 1
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S	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.
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DIMENSIONES SIN TOLERANCIA SON
DE REFERENCIA SOLAMENTE

DIBUJADO POR:
Y.LIU

S. APROBADO POR:
B. SHEN

TERCER ANGULO
DE PROYECCION

03-12-2012

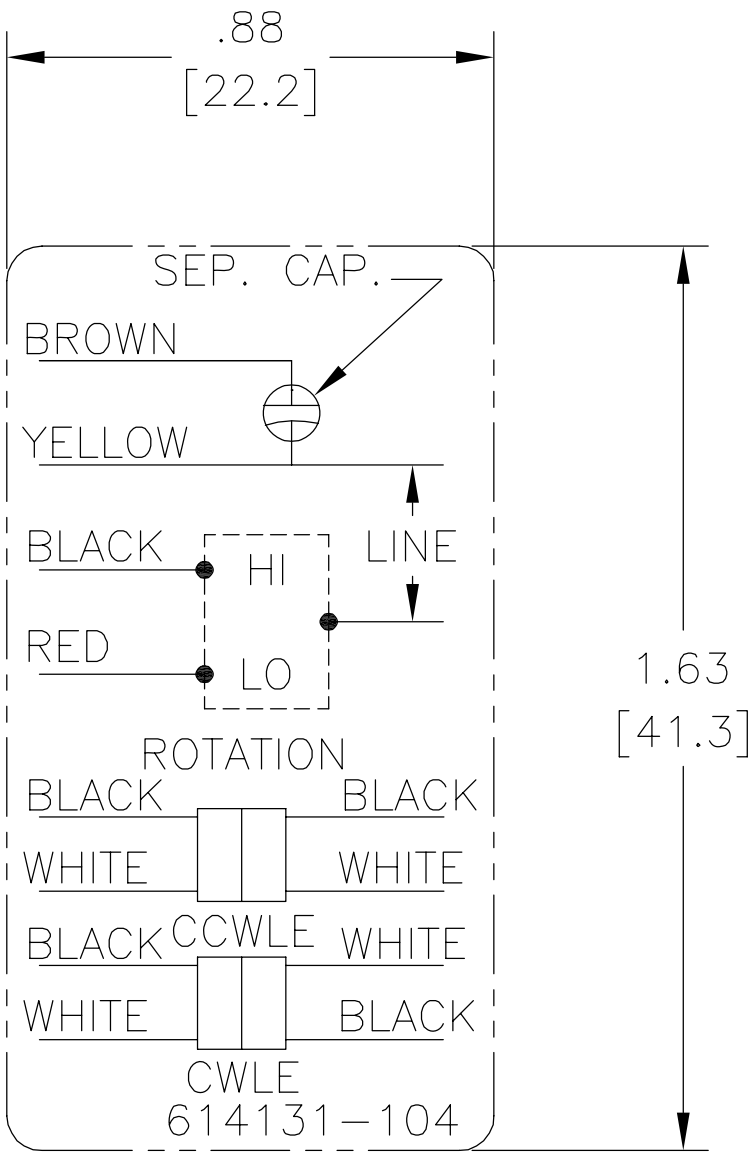
03-12-2012

FECHA EDS: 11-11-2011
REV. FORMATO: G

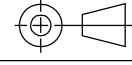
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614131-104

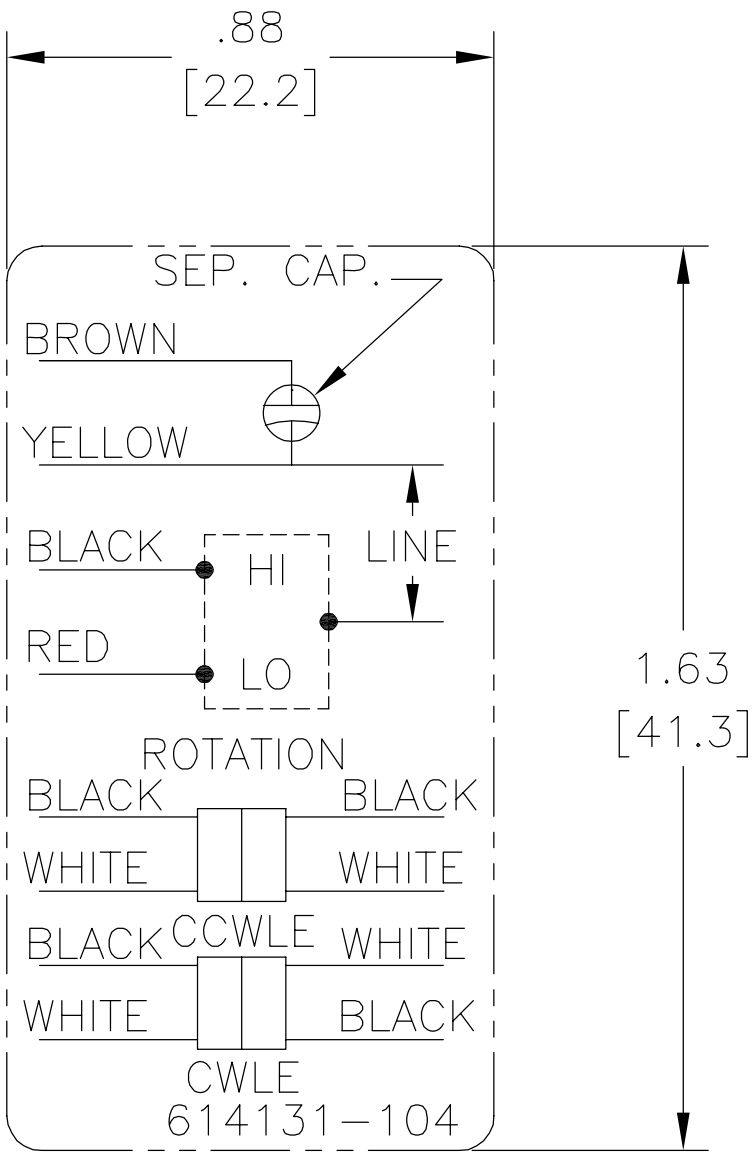
REV	ECO	REV BY	DATE	APPD	DATE
A	ECO-0018859	jrupert	02-21-011	triley	02-21-2011



- 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.

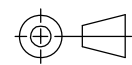
GEOMETRIC CHARACTERISTICS & SYMBOLS ∟ FLATNESS — STRAIGHTNESS ∠ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⊘ CYLINDRICITY △ PROFILE OF ANY SURFACE ⌒ PROFILE OF ANY LINE ↑ RUNOUT ⊕ TRUE POSITION ◎ CONCENTRICITY = SYMMETRY	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: <div>INCH X XX XXX XXXX</div> <div>±.1 ±.02 ±.005 ±.0005</div> <div>mm ±0.5 ±0.13 ±0.013</div> <div>ANG. ±.50 DEG</div> <div>REMOVE BURRS & BREAK SHARP EDGES:</div> <div>INCH .003-.015 mm 0.1-0.4</div> <div>CORNER FILLETS TO:</div> <div>INCH .020 mm 0.5</div> <div>MACHINE SURFACES:</div> <div>INCH 125 mm 3.2</div> <div>METRIC DIMS. SHOWN IN [BRACKETS]</div>	DR BY: jrupert	02-21-2011	<div>ACSmith</div> <div>Innovation has a name.</div> <div>ELECTRICAL PRODUCTS COMPANY</div> <div>A DIVISION OF A. O. SMITH CORPORATION</div>
		APPD: triley	02-21-2011	
		THIRD ANGLE PROJECTION 	EDS DATE 02-22-2008	DESCRIPTION CONN DIAGRAM EXTERNAL
			FORMAT REV F	
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		SIZE A	DWG NO 614131-104	SHEET 1
		SCALE NONE		

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
A	ECO-0018859	jrupert	02-21-011	triley	02-21-2011

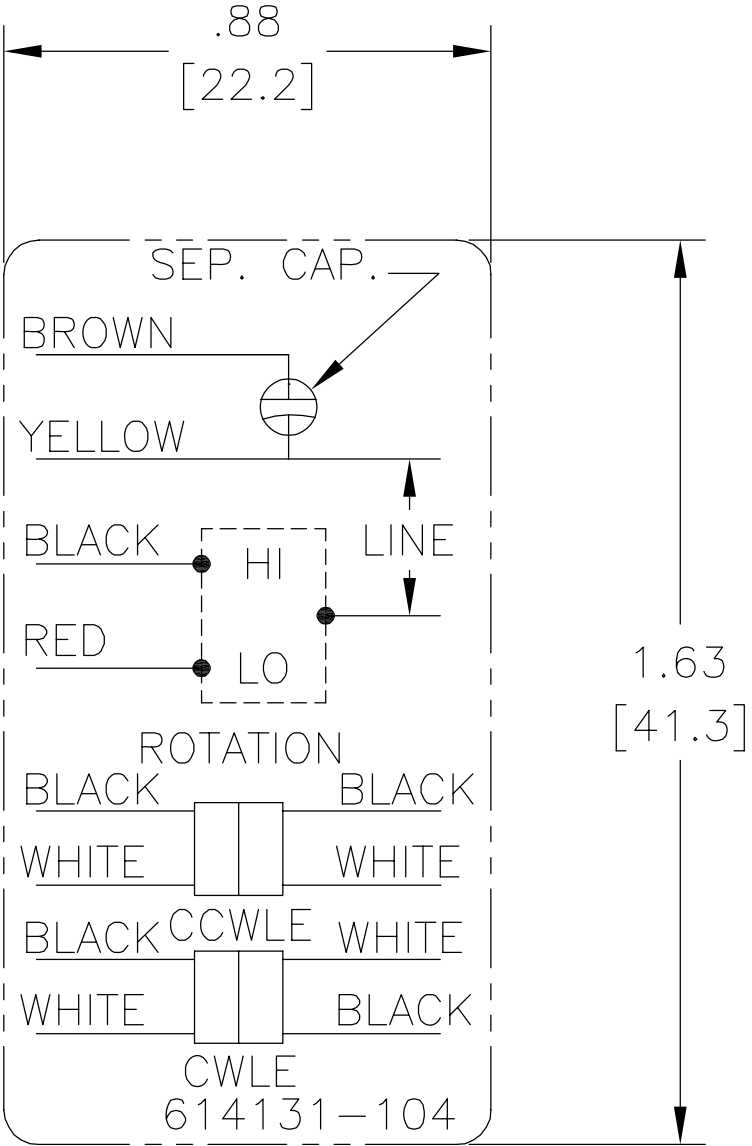


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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ∇ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD ⌒ PERFIL DE CUALQUIER SUPERFICIE ⌒ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ◎ CONCENTRICIDAD ≡ SIMETRIA	A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES: X XX XXX XXXX PULG ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG. ±.50 GRADOS ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE. PULG .003-.015 mm 0.1-0.4 FILETEAR ESQUINA: PULG .020 mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2 DIMS METRICAS MOSTRADAS [PARENTESIS]	DIBUJADO POR: jrupert	02-21-2011	<div><div>ACSmith</div><div>Innovation has a name.</div></div> <div>ELECTRICAL PRODUCTS COMPANY</div> <div>A DIVISION OF A. O. SMITH CORPORATION</div>			
		APROBADO POR: triley	02-21-2011				
		TERCER ANGULO DE PROYECCION		FECHA EDS: 02-22-2008 REV. FORMATO: F	DESCRIPCION: CONN DIAGRAM EXTERNAL		
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					ESCALA:NONE		HOJA: 1

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		ASME Y14.5M 1994			NONE		