

PRODUCT INFORMATION PACKET



Model No: 454A
Catalog No: 454A

Fan and Blower Motor, 1/3,1/4,1/6 HP, 1 Ph, 60 Hz, 208-230 V, 1625 RPM, 3 Speed, 48 Frame, OPEN



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Nameplate Specifications

Output HP	1/3,1/4,1/6 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	208-230 V
Current	2.1,1.2,0.9 A	Speed	1625 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	F48Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °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	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	10.41 in	Frame Length	3.88 in
Shaft Diameter	0.500 in	Shaft Extension	5.48 in
Outline Drawing	F48Z65A01	Connection Drawing	614131-351

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GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

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

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

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

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

NAMEPLATE DATA:

MODEL NO.: F48Z65A01
CUST. P/N: 454A
HP: 1/3,1/4,1/6
ROT.: REVERSIBLE
RPM: 1625
TYPE: UF
FRAME: 48Y
VOLTS: 208-230
PH: 1
AMPS: 2.1,1.2,0.9
HZ: 60
INS.: B
AMB.: 60°C
DUTY: AIR OVER
CAP.: 5MFD/370V
ENCL: OPEN
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

BROWN
BRN/WHT

WHITE

BLACK
HI

BLUE
MED

RED
LO

SEP.CAP.

LINE

ROTATION

BLACK
WHITE

WHITE
BLACK

CCWLE

BLACK
WHITE

WHITE
BLACK

CWLE

614131-351

PERFORMANCE CURVE NO. C32722

TORQUE @ 1625 RPM (25°C) 21.2 OZ. FT.

APPROVED SAMPLE 0604315B

UL COMPONENT

FILE # E46412

GUIDE # PRGY2

CSA

FILE # LR43341

GUIDE # 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 C 0025525

REV BY E.SINECIO

DATE 04-23-2012

APPD R.RASCON

DATE 04-23-2012

REV. ROT.

Ø5.70 [Ø144.8] MAX.

23'

2X .44 [11.2]

TOP OF NAMEPLATE (ADHESIVE)

(4)Ø.136 HOLES FOR ALLEN STEVENS CONNECTOR

LEAD LENGTH

LEAD LENGTH

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

REVERSING LEADS (MOTOR TO BE SHIPPED CONNECTED FOR CCWLE ROTATION)

9.97 [253.2]

4.49 [114.0]

5.48 [139.2]

TOP OF WARNING STICKER(ADHESIVE)

4.75 [120.7] USABLE FLAT

Ø.5000±.0000 [Ø12.700±.013]

.453±.005 [11.51±.13] FLAT

.86±.06 [21.8±1.5]

4X #8-32 NC-2A THD'S EXT. STUDS ON A Ø5.15 [Ø130.8] B.C. 90° APART

GRN/YEL(GRD) 11.0/13.0 [279/330] #10 EYELET

BLACK/WHITE 3.0/5.0 [76/127] REVERSING PLUG(MALE)

BLACK/WHITE 3.0/5.0 [76/127] REVERSING PLUG(FEMALE)

BROWN 17.0/19.0 [432/483] .25[6.4] FLAG

BROWN/WHITE 17.0/19.0 [432/483] .25[6.4] FLAG

RED 17.0/19.0 [432/483] .50[12.7] SKIN

BLUE 17.0/19.0 [432/483] .50[12.7] SKIN

BLACK 17.0/19.0 [432/483] .50[12.7] SKIN

WHITE 17.0/19.0 [432/483] .50[12.7] SKIN

COLOR LENGTH TERMINAL OR STRIP LENGTH

MAIN FRAME - OLE OPEN

END FRAME - OLE OPEN

MAIN FRAME - LE OPEN

END FRAME - LE OPEN

CUSTOMER

DISTRIBUTION SERVICES

LEAD DATA

ENCLOSURE

DR BY: CADDIE

07-02-2007

APPD:

THIRD ANGLE PROJECTION

EDS DATE 02-22-2008

FORMAT REV G

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REGAL-BELOIT CORPORATION

DESCRIPTION

MODEL-RFHP-48FR OUTLINE

SIZE C

DWG NO F48Z65A01

SCALE NONE

SHEET 1

3 of 8

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INFORMACION GENERAL:				REVISION: ECO C 0025525		REVISADO POR: E.SINECIO FECHA: 04-23-2012 APROBADO POR: R.RASCON FECHA: 04-23-2012	
OSCILACION DE FLECHA: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION							
BALEROS: BALAS							
POSICION DEL MONTAJE: FLECHA VERTICAL HACIA ABAJO							
INFORMACION ELECTRICA:							
SOBRECARGA DEL PROTECTOR: REINICIO AUTOMATIC (T.I. 7AM 036)							
CABLES: NO. 18 GA., .06 [1.5] THK. PVC 105°C AISLAM.							
CABLE DE TIERRA: NO. 18 GA., .03 [.8] THK. (VERDE) AISLAM.							
INFORMACION DE ETIQUETA:		DIAGRAMA DE CONEXION EXTRNA					
F48Z65A01 CUST. P/N: 454A HP: 1/3,1/4,1/6 ROT.: REVERSIBLE RPM: 1625 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 2.1,1.2,0.9 HZ: 60 INS.: B AMB.: 60°C DUTY: AIR OVER CAP.: 5MFD/370V ENCL: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED							
CURVAS DE FUNCIONAMIENTO	TORSION @---- RPM (25°C)	MUESTRA APROBADA	COMPONENTE UL	CSA			
C32722	21.2 OZ. FT.	0604315B	#ARCHIVO CCN # PRGY2 LR43341	CLASE # 4211-01	LONGITUD	TERMINAL O LONGITUD DE DESFORRE	
INFORMACION DE CABLES					TIPO DE MOTOR		CLIENTE
CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS			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.		DIBUJADO POR: CADDIE 07-02-2007		
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.			TERCER ANGULO DE PROYECCION		FECHA EDS: 02-22-2008 REV. FORMATO: G		
DIMENSIONES SIN TOLERANCIA SON DE REFERENCIA SOLAMENTE			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.		DESCRIPCION: MODEL-RFHP-48FR OUTLINE		
TAMAÑO: C			NUMERO DE DIBUJO: F48Z65A01		ESCALA: NONE		HOJA: 1

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REV	ECO	REV BY	DATE	APPD	DATE
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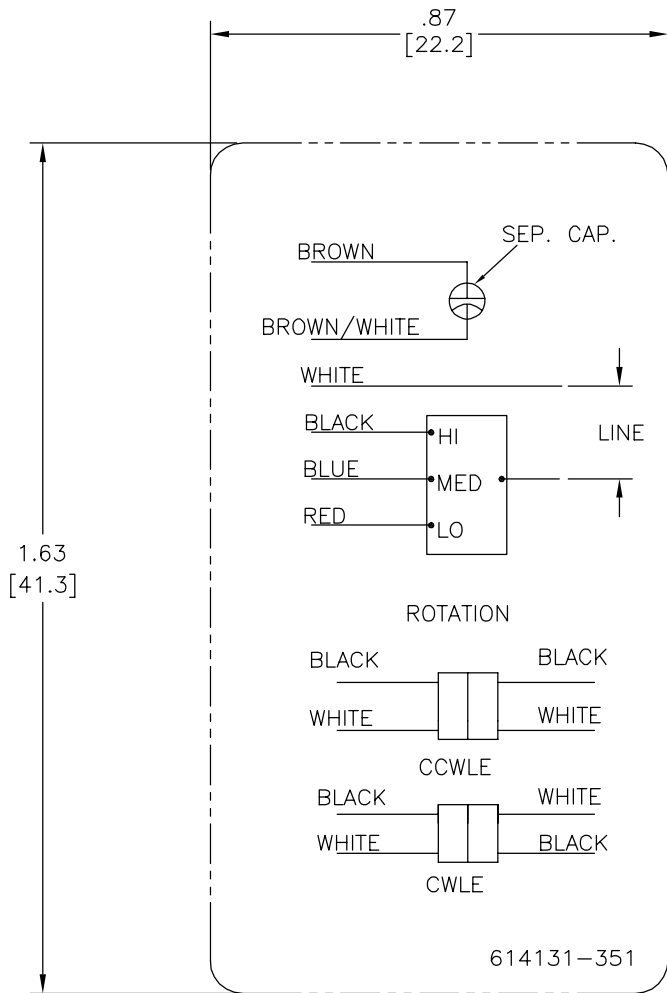
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


NOTES:

1. FOR USE WITH 614129 OR 2513020-001 NAMEPLATE BLANKS;
2. ——— INDICATES DIMENSION LIMITS

A

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<div>GEOMETRIC CHARACTERISTICS & SYMBOLS</div> <div><div>⊥ FLATNESS</div><div>— STRAIGHTNESS</div><div>∠ ANGULARITY</div><div>⊥ PERPENDICULARITY (SQUARENESS)</div><div>// PARALLELISM</div><div>○ ROUNDNESS (CIRCULARITY)</div><div>⌀ CYLINDRICITY</div><div>△ PROFILE OF ANY SURFACE</div><div>⤴ PROFILE OF ANY LINE</div><div>↗ RUNOUT</div><div>⊕ TRUE POSITION</div><div>◎ CONCENTRICITY</div><div>≡ SYMMETRY</div></div> <div>ASME Y14.5M 1994</div>	<div>UNLESS OTHERWISE SPECIFIED</div> <div>DIM. TOLERANCES ARE AS FOLLOWS:</div> <div><div><div><div>X</div><div>XX</div><div>XXX</div><div>XXXX</div></div><div><div>INCH</div><div>±.1</div><div>±.02</div><div>±.005</div><div>±.0005</div></div><div><div>mm</div><div>±0.5</div><div>±0.13</div><div>±0.013</div></div></div><div>ANG. ±.50 DEG</div><div>REMOVE BURRS & BREAK SHARP EDGES:</div><div><div><div>INCH</div><div>.003</div><div>— .015</div><div>mm</div><div>0.1</div><div>— 0.4</div></div></div><div>CORNER FILLETS TO:</div><div><div><div>INCH</div><div>.020</div><div>mm</div><div>0.5</div></div></div><div>MACHINE SURFACES:</div><div><div><div>INCH</div><div>125</div><div>mm</div><div>3.2</div></div></div></div> <div>METRIC DIMS. SHOWN IN [BRACKETS]</div>	<div>DR BY:</div> <div>YL</div> <div>04-08-2011</div>		<div><div>REGAL</div><div>REGAL-BELOIT CORPORATION</div></div>				
		<div>APPD:</div> <div>CZ</div> <div>04-08-2011</div>						
		<div>THIRD ANGLE PROJECTION</div> <div></div> <div><div>EDS DATE</div><div>11-11-2011</div></div> <div><div>FORMAT REV</div><div>H</div></div>		<div>DESCRIPTION</div> <div>CONN DIAGRAM-NAMEPLATE</div>				
		<div>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.</div>						
							<div>SIZE</div> <div>C</div>	<div>DWG NO</div> <div>614131-351</div>
							<div>SCALE</div> <div>NONE</div>	<div>SHEET</div> <div>1</div>

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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012

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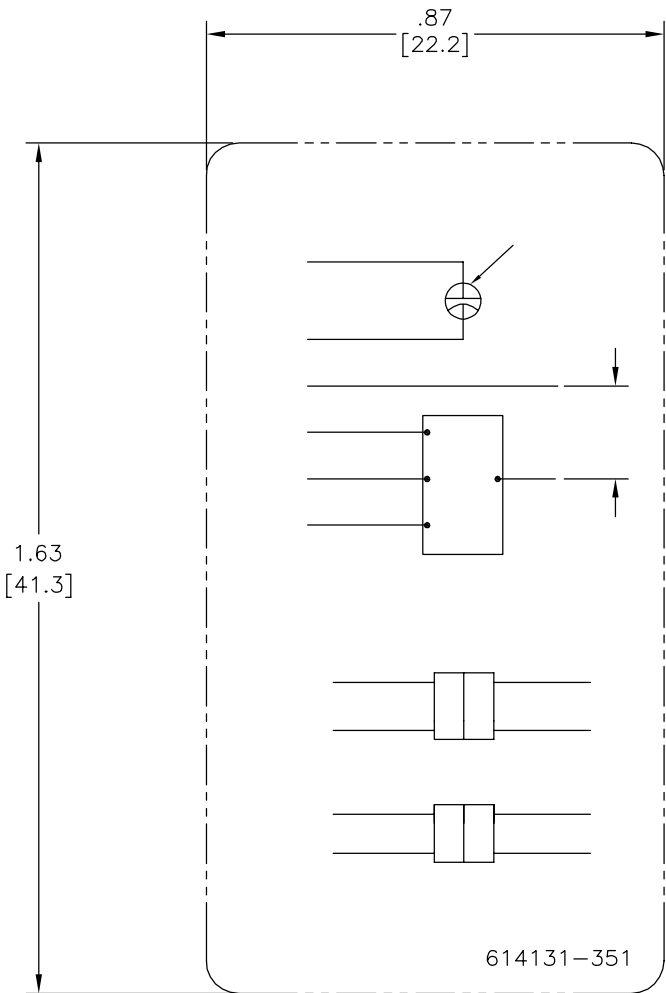
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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS □ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ▲ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION 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	DIBUJADO POR: YL APROBADO POR: CZ TERCER ANGULO DE PROYECCION 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.	04-08-2011 04-08-2011 FECHA EDS: 11-11-2011 REV. FORMATO: H	 REGAL-BELOIT CORPORATION		
				DESCRIPCION: CONN DIAGRAM-NAMEPLATE		
				TAMAÑO: C	NUMERO DE DIBUJO: 614131-351	
				ESCALA: NONE	HOJA: 1	

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