

PRODUCT INFORMATION PACKET



Model No: 149A

Catalog No: 149A

Fan and Blower Motor, 1/2,1/3,1/4 HP, 1 Ph, 60 Hz, 208-230 V, 1075 RPM, 3 Speed, 48 Frame,
SEMI ENCL



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Nameplate Specifications

Phase	1	Output HP	1/2,1/3,1/4 Hp
Output KW	0.37 kW	Voltage	208-230 V
Speed	1075 rpm	Service Factor	1.0
Frame	48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	3.0,2.0,1.5 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	3

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Resilient Rings	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	10.47 in	Frame Length	4.38 in
Shaft Diameter	0.500 in	Shaft Extension	4.98 in
Connection Drawing	614131-351	Outline Drawing	F48Z03A01

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GENERAL INFORMATION:

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

BEARINGS: 203 BALL

MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

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

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

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

NAMEPLATE DATA:

MODEL NO.: F48Z03A01
CUST. P/N: 149A
HP: 1/2,1/3,1/4
ROT.: REVERSIBLE
RPM: 1075
TYPE: UF
FRAME: 48Y
VOLTS: 208-230
PH: 1
AMPS: 3.0/2.0/1.5
HZ: 60
INS.: B
AMB.: 60°C
DUTY: AIR OVER
CAP.: 7.5MFD/370V
ENCL: SEMI-ENCL.
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

BROWN

BRN/WHT

WHITE

BLACK

BLUE

RED

SEP. CAP.

HI

MED

LO

LINE

ROTATION

BLACK

WHITE

BLACK

WHITE

CCWLE

CWLE

614131-351

PERFORMANCE CURVE NO. C32662

TORQUE @ 1075 RPM (25°C) 43.48 OZ. FT.

APPROVED SAMPLE 0603111B

UL COMPONENT

FILE # E46412

CCN # PRGY2

CSA

FILE # LR43341

CLASS # 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.

5.70 [144.8] DIA. MAX

15.0°

22.5°

LEAD LENGTH

LEAD LENGTH

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

5.55 [141.0]

4.99 [126.7]

4.98±0.08 [126.5±2.0]

.50 [12.7]

2.50 [63.5]

TOP OF NAMEPLATE

TOP OF STICKER WARNING

4.25±0.03 [108.0±0.8] USABLE FLAT

.4998(-.0005) [12.69(-.013)] DIA.

.453(±.005) [11.51(±0.13)] FLAT

.61±.06 [15.5±1.5]

.136+0.002-0.003 [3.45+0.05-0.07] DIA HOLES FOR BX CONNECTORS (4 PLACES)

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

GRN/YEL(GRD)	11/13 [279/330]	#10 EYELET
BLACK/WHITE	3/5 [76/127]	REVERSING PLUG(MALE)
BLACK/WHITE	3/5 [76/127]	REVERSING PLUG(FEMALE)
BROWN	24/22 [610/559]	.25[6.35] FLAG
BROWN/WHITE	24/22 [610/559]	.25[6.35] FLAG
WHITE	24/22 [610/559]	.50[12.7] SKIN
BLACK	24/22 [610/559]	.50[12.7] SKIN
BLUE	24/22 [610/559]	.50[12.7] SKIN
RED	24/22 [610/559]	.50[12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

MAIN FRAME - OLE SEMI-ENCLOSED

END FRAME - OLE OPEN

MAIN FRAME - LE ENCLOSED

END FRAME - LE OPEN

CUSTOMER

DISTRIBUTION

DR BY: AMY

03-16-2007

APPD:

THIRD ANGLE PROJECTION

EDS DATE 02-22-2008

FORMAT REV G

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REGAL BELLOIT

REGAL-BELOIT CORPORATION

DESCRIPTION

MODEL-RFHP-48FR
OUTLINE

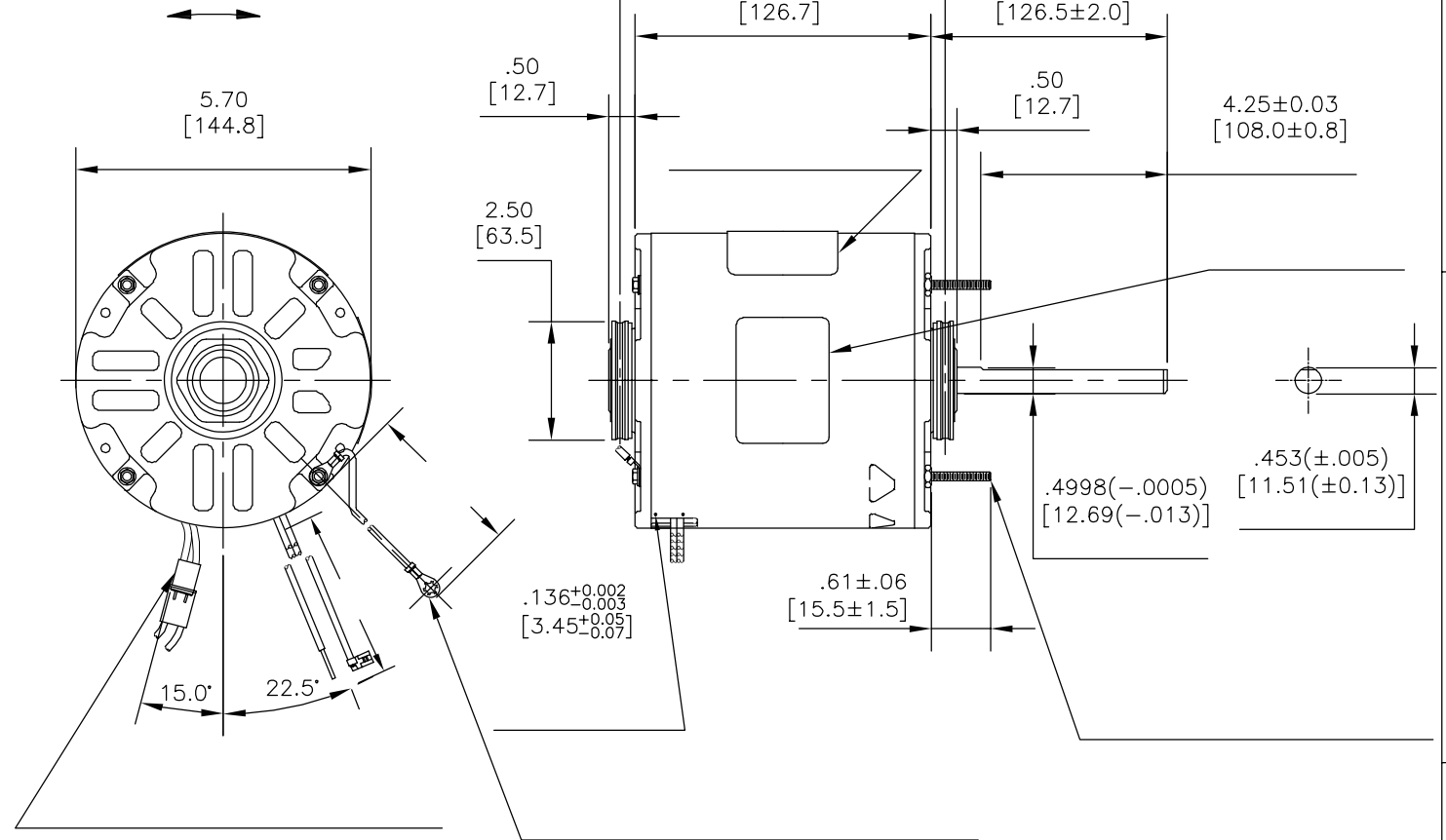
SIZE C

DWG NO F48Z03A01

SCALE NONE

SHEET 1

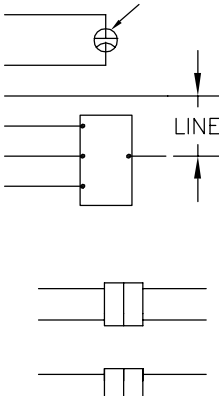
CABLE DE TIERRA: NO. 18 GA., .03 [.8] THK. (VERDE) AISLAM.



	11/13 [279/330]	
	3/5 [76/127]	
	3/5 [76/127]	
	24/22 [610/559]	
	24/22 [610/559]	
	24/22 [610/559]	
	24/22 [610/559]	
	24/22 [610/559]	
	24/22 [610/559]	
	LONGITUD	TERMINAL O LONGITUD DE DESFORRE

DE CARCASA – OLE	
DE TAPA – OLE	
DE CARCASA – LE	
DE TAPA – LE	
TIPO DE MOTOR	

CLIENTE	
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INFORMACION DE ETIQUETA:	DIAGRAMA DE CONEXION EXTRAÑA
MODEL NO.: F48Z03A01 CUST. P/N: 149A HP: 1/2,1/3,1/4 ROT.: REVERSIBLE RPM: 1075 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 3.0/2.0/1.5 HZ: 60 INS.: B AMB.: 60°C DUTY: AIR OVER CAP.: 7.5MFD/370V ENCL: SEMI-ENCL. UL LOGO CSA LOGO THERMALLY PROTECTED	
	614131-351

CURVAS DE FUNCIONAMIENTO	TORSION @---- RPM (25°C)	MUESTRA APROBADA	COMPONENTE UL		CSA	
			#ARCHIVO	CCN #	#ARCHIVO	CLASE #
C32662	43.48 OZ. FT.	0603111B	E46412	PRGY2	LR43341	4211-01

CARACTERÍSTICAS 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:
AMY

03-16-2007

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TERCER ANGULO
DE PROYECCION



FECHA EDS: 02-22-2008
REV. FORMATO: G

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DESCRIPCION:	
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MODEL-RFHP-48FR OUTLINE

TAMAÑO:

NUMERO DE DIBUJO:	F48Z03A01
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ESCALA: NONE

HOJA:	1
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REV	ECO	REV BY	DATE	APPD	DATE
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012

D

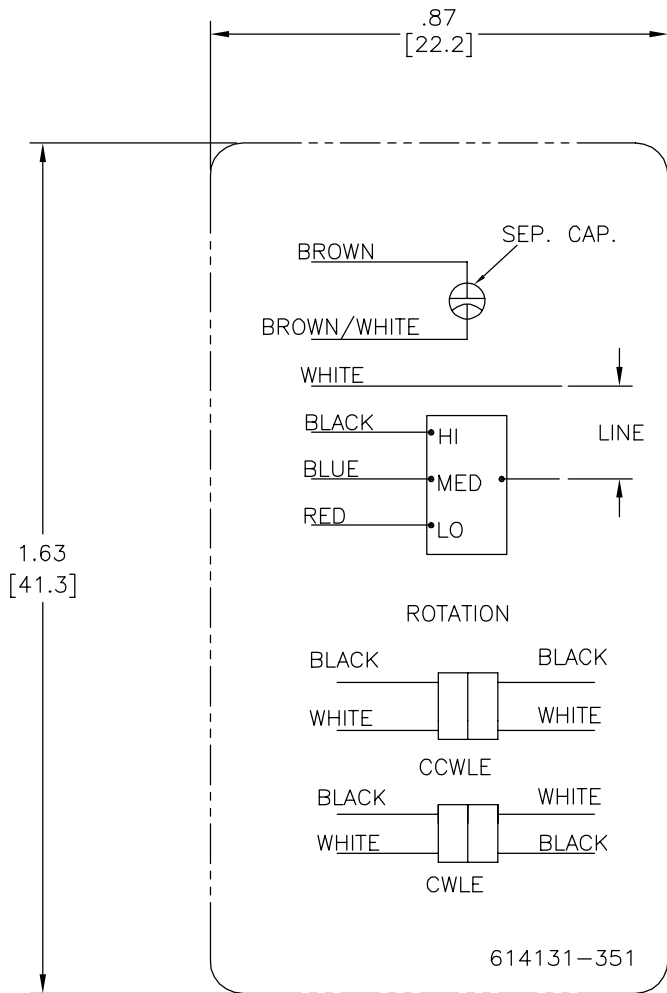
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C

C

B

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NOTES:

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

A

A

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: X XX XXX XXXX INCH ±.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:	YL	04-08-2011	 REGAL-BELOIT CORPORATION		
		APPD:	CZ	04-08-2011		DESCRIPTION	
		THIRD ANGLE PROJECTION 		EDS DATE 11-11-2011 FORMAT REV H		CONN DIAGRAM-NAMEPLATE	
		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.				SIZE C	DWG NO 614131-351
						SCALE NONE	SHEET 1

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

D

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C

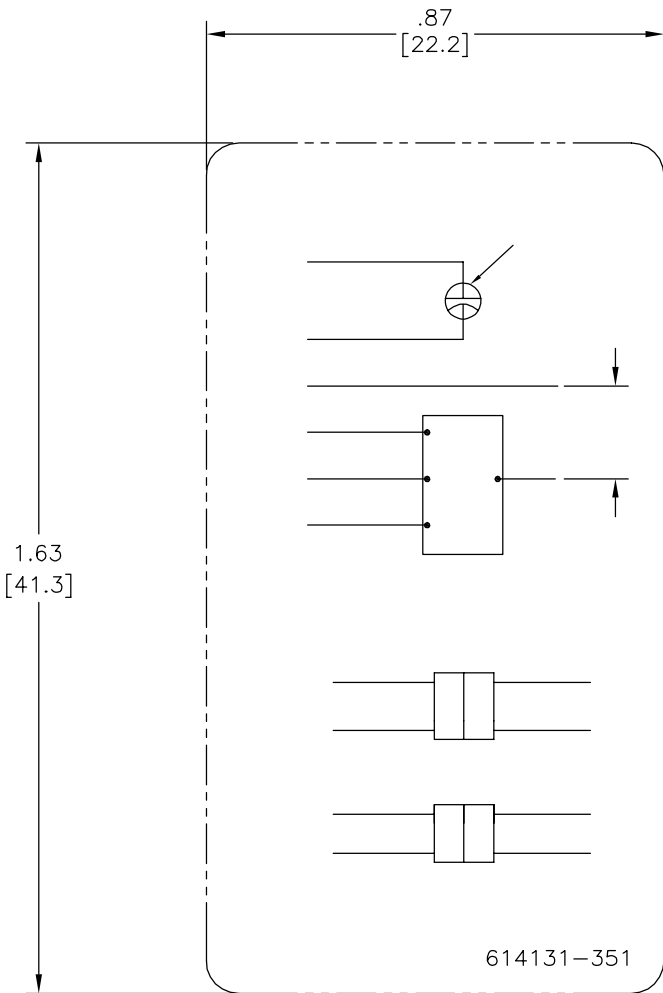
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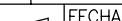
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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS □ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ▲ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ◎ CONCENTRICIDAD ≡ SIMETRIA		A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES: PULG .003 .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .450 .500 .625 .750 .875 1.000 1.250 1.500 1.750 2.000 2.500 3.000 3.750 4.500 5.000 6.000 7.000 8.000 9.000 10.000 mm .076 .127 .254 .381 .508 .635 .762 .890 1.016 1.270 1.524 1.778 2.032 2.286 2.540 2.794 3.048 3.302 3.556 3.810 4.064 4.318 4.572 4.826 5.080 5.334 5.588 5.842 6.096 6.350 6.604 6.858 7.112 7.366 7.620 7.874 8.128 8.382 8.636 8.890 9.144 9.398 9.652 9.906 10.160 10.414 10.668 10.922 11.176 11.430 11.684 11.938 12.192 12.446 12.700 12.954 13.208 13.462 13.716 13.970 14.224 14.478 14.732 14.986 15.240 15.494 15.748 16.002 16.256 16.510 16.764 17.018 17.272 17.526 17.780 18.034 18.288 18.542 18.796 19.050 19.304 19.558 19.812 20.066 20.320 20.574 20.828 21.082 21.336 21.590 21.844 22.098 22.352 22.606 22.860 23.114 23.368 23.622 23.876 24.130 24.384 24.638 24.892 25.146 25.400 25.654 25.908 26.162 26.416 26.670 26.924 27.178 27.432 27.686 27.940 28.194 28.448 28.702 28.956 29.210 29.464 29.718 30.000		DIBUJADO POR: YL		04-08-2011		REGAL REGAL-BELOIT CORPORATION	
		APROBADO POR: CZ		04-08-2011					
		TERCER ANGULO DE PROYECCION				FECHA EDS: 11-11-2011		DESCRIPCION: CONN DIAGRAM-NAMEPLATE	
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PULG .003-.015 mm 0.1-0.4 FILETEAR ESQUINA: PULG .020 mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2						TAMAÑO: C		NUMERO DE DIBUJO: 614131-351	
ASME Y14.5M 1994		DIMS METRICAS MOSTRADAS [PARENTESIS]				ESCALA: NONE		HOJA: 1	

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