

PRODUCT INFORMATION PACKET



Model No: 148A
Catalog No: 148A

Fan and Blower Motor, 1/3,1/4,1/6 HP, 1 Ph, 60 Hz, 115 V, 1075 RPM, 3 Speed, 48 Frame, SEMI ENCL



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Nameplate Specifications

Phase	1	Output HP	1/3,1/4,1/6 Hp
Output KW	0.25 kW	Voltage	115 V
Speed	1075 rpm	Service Factor	1.0
Frame	F48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	5.3,3.9,3.0 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 Ring/Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	9.54 in	Frame Length	3.88 in
Shaft Diameter	0.500 in	Shaft Extension	4.55 in
Connection Drawing	614131-351	Outline Drawing	F48Z23A01

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GENERAL INFORMATION:				REV ECO E 0025525		REV BY DATE APPD DATE E.SINECIO 04-23-2012 R.RASCON 04-23-2012	
SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION							
END PLAY: .010 TO .063 [.25 A 1.60]							
BEARINGS: 201 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 LEAD: NO. 18 GA., .03 [.8] THK. (GRN/YEL) INSUL.							
NAMEPLATE DATA:		EXTERNAL CONNECTION DIAGRAM					
MODEL NO.: F48Z23A01 CUST. P/N: 148A HP: 1/3,1/4,1/6 ROT.: REVERSIBLE RPM: 1075/3 SPD TYPE: UF FRAME: 48Y VOLTS: 115 PH: 1 AMPS: 5.3,3.9,3.0 HZ: 60 INS.: B AMB.: 60°C DUTY: AIR OVER CAP.: 5.0MFD/370V ENCL: SEMI-ENCL. UL LOGO CSA LOGO THERMALLY PROTECTED							
PERFORMANCE CURVE NO. C32692		TORQUE @ 1075 RPM (25°C) 34.1 OZ. FT.		APPROVED SAMPLE 0604310A		UL COMPONENT FILE # CCN # FILE # CLASS #	
CSA		614131-351		E46412 PRGY2 LR43341 4211-01			
GEOMETRIC CHARACTERISTICS & SYMBOLS		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.		DR BY: Z.HONG 05-16-2007		DESCRIPTION	
— FLATNESS — STRAIGHTNESS — ANGULARITY — PERPENDICULARITY (SQUARENESS) — PARALLELISM — ROUNDNESS (CIRCULARITY) — CYLINDRICITY — PROFILE OF ANY SURFACE — PROFILE OF ANY LINE — RUNOUT — TRUE POSITION — CONCENTRICITY — SYMMETRY		DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.		APPD: .		MODEL-RFHP-48FR OUTLINE	
ASME Y14.5M 1994				THIRD ANGLE PROJECTION		SIZE C DWG NO F48Z23A01	
				EDS DATE 02-22-2008 FORMAT REV G		SCALE NONE SHEET 1	
				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.			

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DE CARCASA – OLE	SEMI–ENCL
DE TAPA – OLE	ABIERTO
DE CARCASA – LE	SEMI–ENCL
DE TAPA – LE	ABIERTO
TIPO DE MOTOR	

CLIENTE	SERVICIOS DE
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SERVICIOS DE

— 100 —


REGAL-BELOIT CORPORATION

DESCRIPTION

DESCRIPCION:	
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TAMAÑO:	NU
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OUTLINE
MERO DE DIBUJO:
F48Z23A01

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

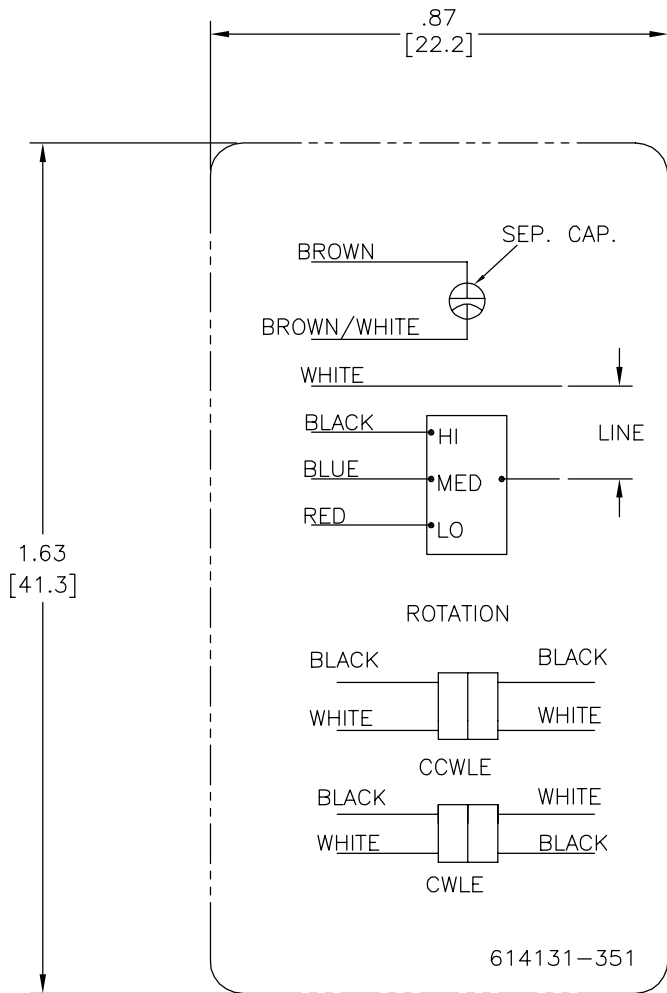
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NOTES:

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

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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 REGAL-BELOIT CORPORATION		
		APPD: CZ	04-08-2011	DESCRIPTION		
		THIRD ANGLE PROJECTION 		EDS DATE 11-11-2011	CONN DIAGRAM-NAMEPLATE	
				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.				
				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

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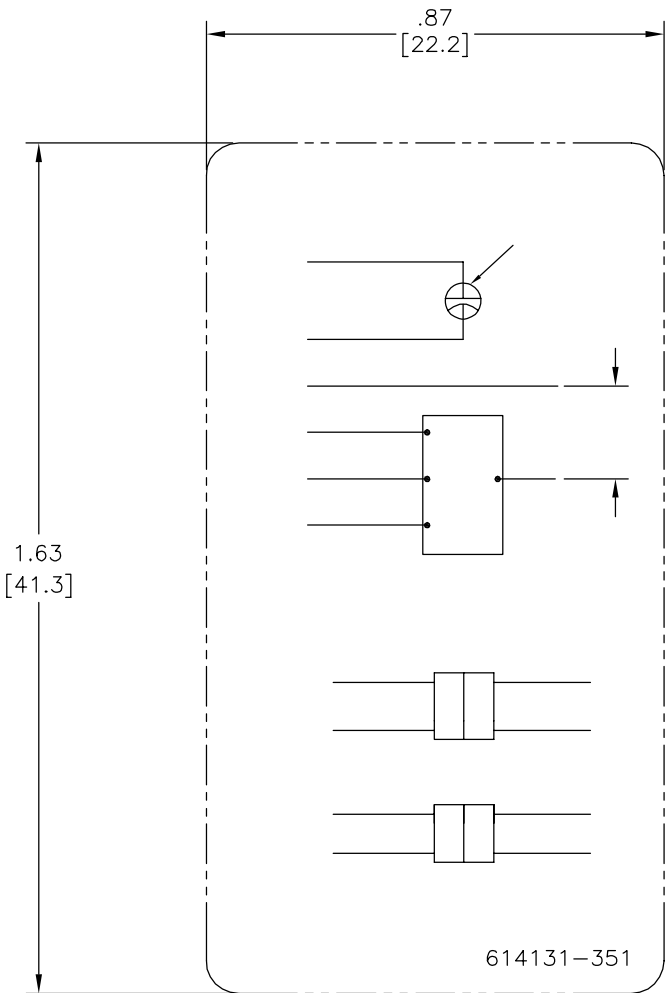
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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS □ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ▽ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ◎ CONCENTRICIDAD ≡ SIMETRIA	A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES: PULG $\pm .1$ $\pm .02$ $\pm .005$ $\pm .0005$ 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	DESCRIPCION: CONN DIAGRAM-NAMEPLATE	
				TAMAÑO: C	NUMERO DE DIBUJO: 614131-351
				ESCALA: NONE	HOJA: 1

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