

PRODUCT INFORMATION PACKET



Model No: 9431A

Catalog No: 9431A

Fan Coil & Air Conditioner Motor, 1/6,1/8,1/10 HP, 1 Ph, 60 Hz, 277 V, 1075 RPM, 3 Speed, 48 Frame,
OPEN



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Nameplate Specifications

Output HP	1/6,1/8,1/10 Hp	Output KW	0.13 kW
Frequency	60 Hz	Voltage	277 V
Current	.78, .61, .49 A	Speed	1075 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48Y	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	6	Rotation	Reversible
Mounting	Lug	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	9.74 in	Frame Length	3.63 in
Shaft Diameter	0.500 in	Shaft Extension	5.50 in
Connection Drawing	614131-351	Outline Drawing	9431A-S01

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GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

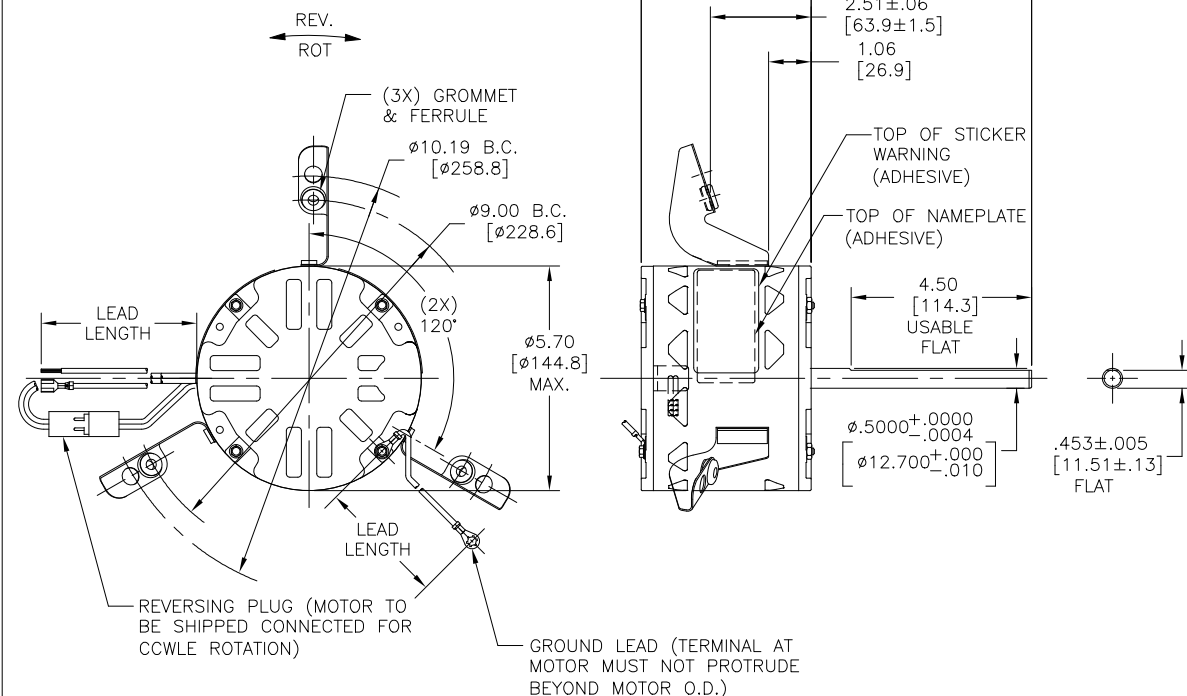
ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

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

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

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



GREEN/YELLOW (GRD)	11.0/13.0 [305/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN/WHITE	24.0/26.0 [609/660]	.25 [6.4] FEMALE SPADE
BROWN	24.0/26.0 [609/660]	.25 [6.4] FEMALE SPADE
WHITE	24.0/26.0 [609/660]	.50 [12.7] SKIN
BLACK	24.0/26.0 [609/660]	.50 [12.7] SKIN
BLUE	24.0/26.0 [609/660]	.50 [12.7] SKIN
RED	24.0/26.0 [609/660]	.50 [12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

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.

MAIN FRAME - OLE	OPEN
END FRAME - OLE	OPEN
MAIN FRAME - LE	OPEN
END FRAME - LE	OPEN

CUSTOMER	DISTRIBUTION SERVICE
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NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48Z67A01 CUST. P/N: 9431A HP: 1/6, 1/8, 1/10 ROT.: REVERSIBLE RPM: 1075/3 SPD. TYPE: UF FRAME: 48Y VOLTS: 277 PH: 1 AMPS: 0.78, 0.61, 0.49 HZ: 60 INS.: B AMB.: 60° C DUTY: AIR OVER CAP.: 5 MFD/370V ENCL: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED	BROWN SEP. CAP. BRN/WHT WHITE BLACK HI BLUE M-LO RED LO ROTATION BLACK WHITE WHITE CCWLE BLACK WHITE WHITE CWLE

PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	CCN #	CSA FILE #	CLASS #
C32726A	13.8 OZ. FT	0604307B	E46412	PRGY2	LR43341	4211-01

DRAWING REVISION	REVISION BY	DATE
ECO	J. RUPERT	03-02-2023
ECO-0224213	APPROVED BY	DATE
	J. RUPERT	03-02-2023
REMOVED STICKER ON LEADS		
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DRAWN BY:	J. RUPERT
DATE:	01-09-2023
APPROVED BY:	J. RUPERT
DATE:	01-09-2023
REFERENCE:	

THIRD ANGLE PROJECTION	SIZE DWG NO	9431A	SHEET	1
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REV	ECO	REV BY	DATE	APPD	DATE
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012

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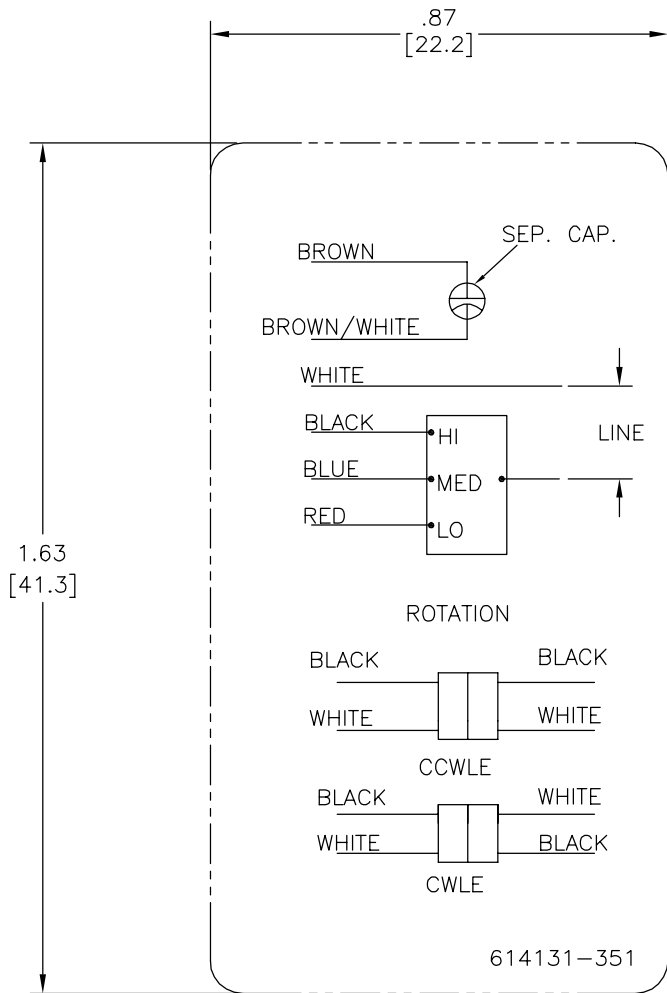
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NOTES:

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 CONN DIAGRAM-NAMEPLATE		
		THIRD ANGLE PROJECTION 	EDS DATE 11-11-2011 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	

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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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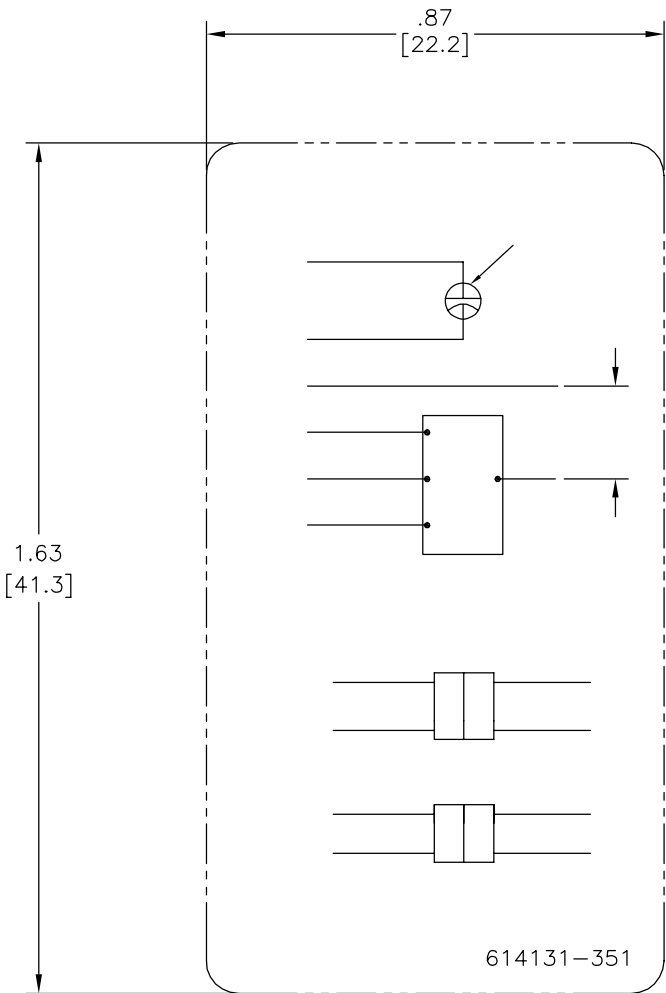
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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS	
▮	PLANICIDAD
—	RECTITUD
∠	ANGULARIDAD
⊥	PERPENDICULARIDAD (A ESCUADRA)
//	PARALELISMO
○	REDONDEZ (CIRCULARIDAD)
⊘	CILINDRICIDAD
△	PERFIL DE CUALQUIER SUPERFICIE
▲	PERFIL DE CUALQUIER LINEA
↑	VARIACION
⊕	POSICION REAL
◎	CONCENTRICIDAD
≡	SIMETRIA

A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES:	
	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 .32
DIMS METRICAS MOSTRADAS [PARENTESIS]	

ASME Y14.5M 1994

DIBUJADO POR:	YL	04-08-2011
APROBADO POR:	CZ	04-08-2011
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 11-11-2011
		REV. FORMATO: H
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 REGAL-BELOIT CORPORATION		
DESCRIPCION:		
CONN DIAGRAM-NAMEPLATE		
TAMAÑO:	NUMERO DE DIBUJO:	
C	614131-351	
ESCALA:NONE		HOJA: 1

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