

PRODUCT INFORMATION PACKET



Model No: 639A
Catalog No: 639A

OEM Replacement Motor, 1/10 HP, 1 Ph, 60 Hz, 208-230 V, 1075 RPM, 1 Speed, 48 Frame, SEMI ENCLOSED



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Nameplate Specifications

Phase	1	Output HP	1/10 Hp
Output KW	0.07 kW	Voltage	208-230 V
Speed	1075 rpm	Service Factor	1
Frame	F48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
Frequency	60 Hz	Current	0.8 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	5.74 in	Frame Length	2.88 in
Shaft Diameter	0.500 in	Shaft Extension	2.02 in
Connection Drawing	614131-359	Outline Drawing	639A-S01

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REV	ECO	REV BY	DATE	APPD	DATE
D	0025526	J.M.RAMIREZ	04-23-2012	R.RASCON	04-23-2012

GENERAL INFORMATION:

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

END PLAY: .010 TO .063 [.25 TO 1.60]

BEARINGS: SLEEVE

MOUNTING POSITION: HORIZONTAL

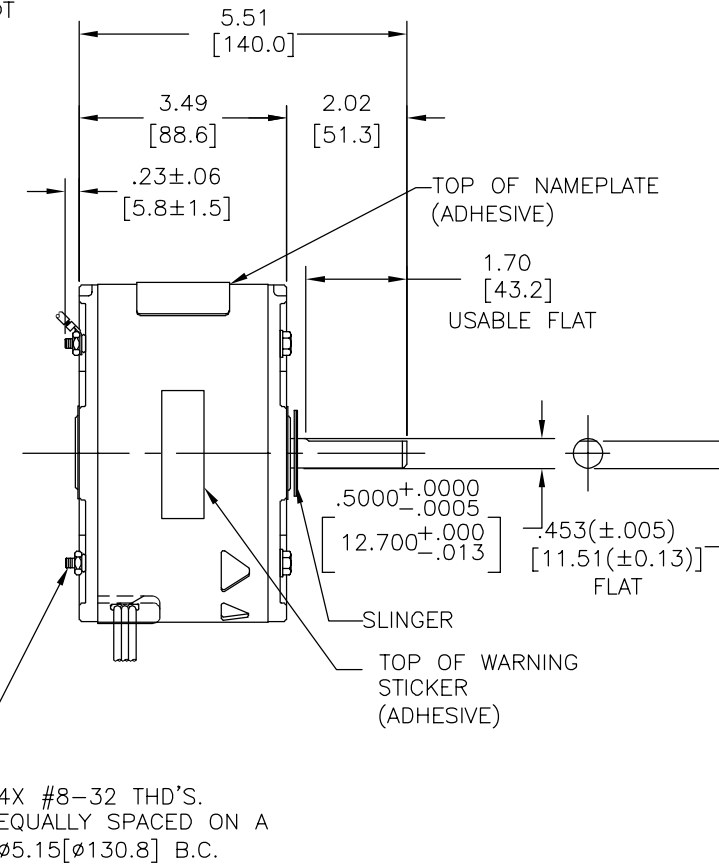
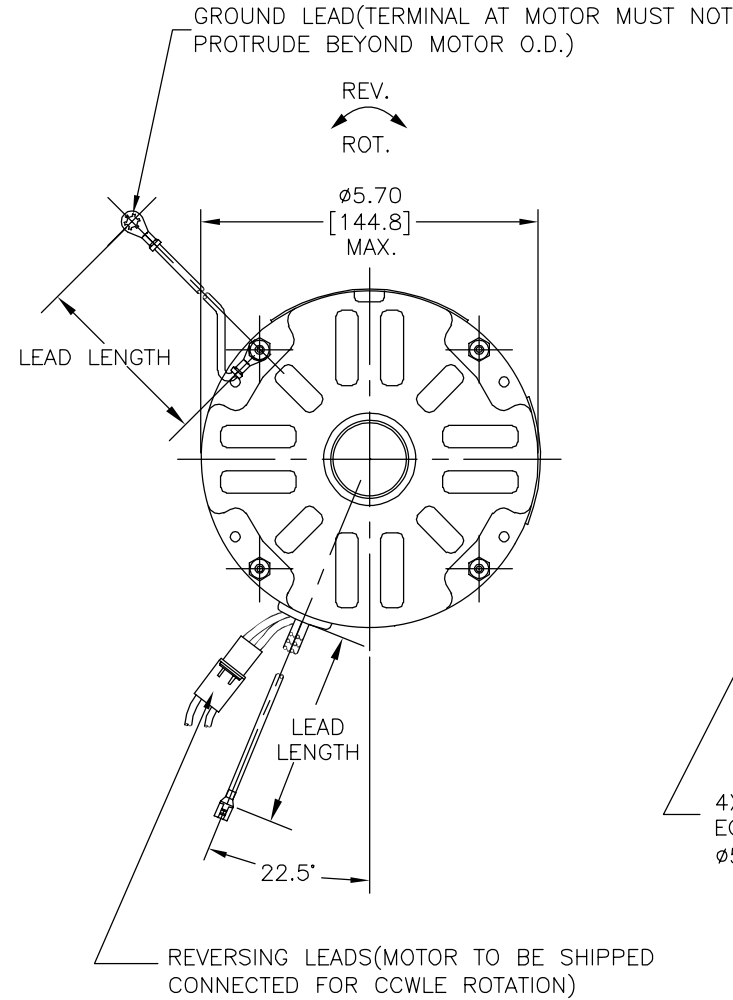
ELECTRICAL DATA:

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.

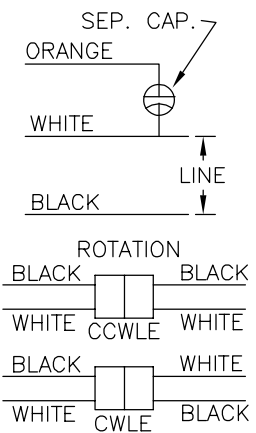
GROUND LEAD: NO. 16 GA., .03 [.8] THK. (GREEN/YELLOW) INSUL.



NAMEPLATE DATA:

EXTERNAL CONNECTION DIAGRAM

MODEL NO.: F48Z25A01
 CUST. P/N: 639A
 HP: 1/10
 ROT.: REV
 RPM: 1075
 TYPE: UF
 FRAME: 48Y
 VOLTS: 208-230
 PH: 1
 AMPS: 0.8
 HZ: 60
 INS.: B
 AMB.: 40 °C
 DUTY: AIR OVER
 CAP.: 5 MFD/370V
 ENCL: SEMI-ENCL
 UL LOGO
 CSA LOGO
 THERMALLY PROTECTED



614131-359

GRN/YEL(GRD)	17.0/15.0 [432/381]	#10 EYELET
BLK/WHT	3.0/5.0 [76/127]	REVERSING PLUG(MALE)
BLK/WHT	3.0/5.0 [76/127]	REVERSING PLUG(FEMALE)
WHITE	35.0/33.0 [889/838]	.25[6.4] FEMALE SPADE
BLACK	35.0/33.0 [889/838]	.25[6.4] FEMALE SPADE
ORANGE	35.0/33.0 [889/838]	.25[6.4] FEMALE SPADE
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

MAIN FRAME - OLE	SEMI-ENCL.
END FRAME - OLE	ENCLOSED
MAIN FRAME - LE	ENCLOSED
END FRAME - LE	OPEN

CUSTOMER	DISTRIBUTION SERVICE
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PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	CCN #	CSA FILE #	CLASS #
C32696	10.2 OZ. FT.	0604298B	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

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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

DR BY: CADDIE 05-17-2007

APPD:

THIRD ANGLE PROJECTION

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DESCRIPTION	MODEL-RFHP-48FR OUTLINE
SIZE	C
DWG NO	639A
SCALE	NONE
SHEET	1

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1

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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
D	0025526	J.M.RAMIREZ	04-23-2012	R.RASCON	04-23-2012

INFORMACION GENERAL:

OSCILACION DE FLECHA: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

JUEGO AXIAL: .010 A .063 [.25 A 1.60]

BALEROS: MANGA

POSICION DEL MONTAJE: HORIZONTAL

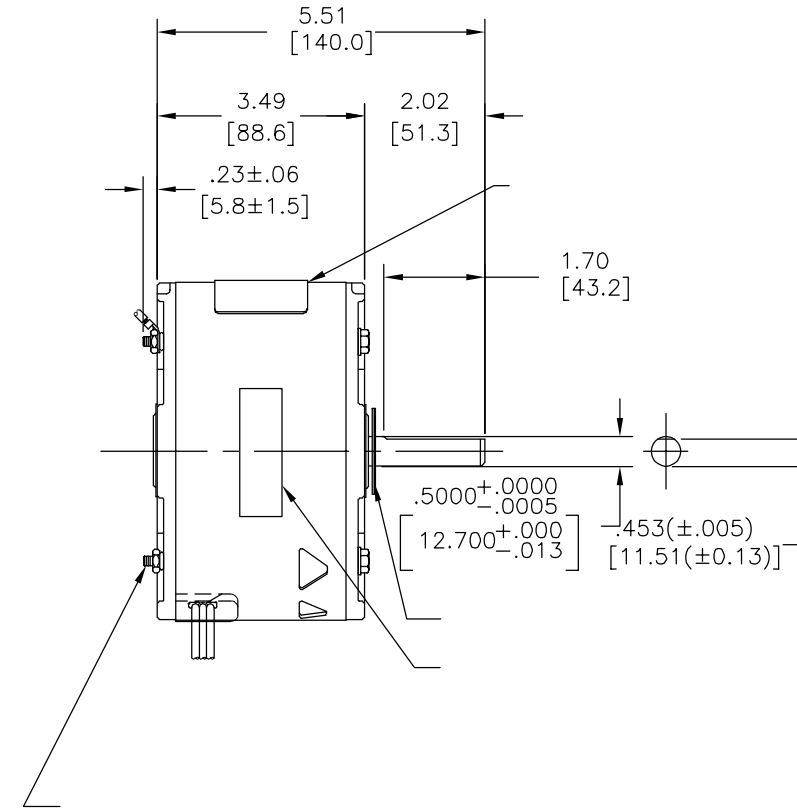
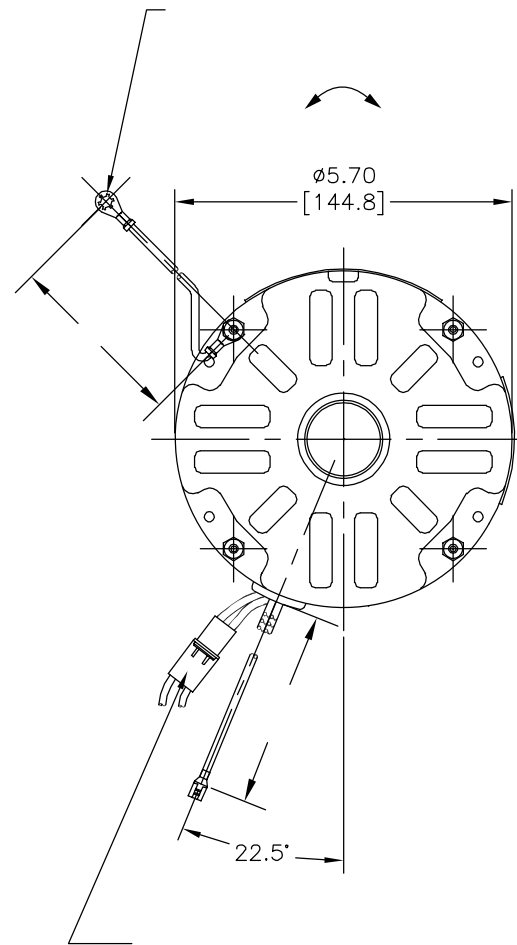
INFORMACION ELECTRICA:

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.

CABLE DE TIERRA: CAL. NO. 16, .03 [.8] ESP. (VERDE/AMARILLO) AISL.



INFORMACION DE ETIQUETA:	DIAGRAMA DE CONEXION EXTRNA
MODEL NO.: F48Z25A01 CUST. P/N: 639A HP: 1/10 ROT.: REV RPM: 1075 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 0.8 HZ: 60 INS.: B AMB.: 40 °C DUTY: AIR OVER CAP.: 5 MFD/370V ENCL: SEMI-ENCL UL LOGO CSA LOGO THERMALLY PROTECTED	
	614131-359

	17.0/15.0	
	[432/381]	
	3.0/5.0	
	[76/127]	
	3.0/5.0	
	[76/127]	
	35.0/33.0	
	[889/838]	
	35.0/33.0	
	[889/838]	
	35.0/33.0	
	[889/838]	

DE CARCASA - OLE	
DE TAPA - OLE	
DE CARCASA - LE	
DE TAPA - LE	

CLIENTE	
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CURVAS DE FUNCIONAMIENTO	TORSION @1075 RPM (25°C)	MUESTRA APROBADA	COMPONENTE UL	CSA
C32696	10.2 OZ. FT.	0604298B	#ARCHIVO CCN #	#ARCHIVO CLASE #
			E46412 PRGY2	LR43341 4211-01

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	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: CADDIE 05-17-2007 APROBADO POR: TERCER ANGULO DE PROYECCION FECHA EDS: 11-11-2011 REV. FORMATO: G	DESCRIPCION: MODEL-RFHP-48FR OUTLINE TAMAÑO: C NUMERO DE DIBUJO: 639A
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REGAL-BELOIT CORPORATION DESCRIPCION: MODEL-RFHP-48FR OUTLINE TAMAÑO: C NUMERO DE DIBUJO: 639A ESCALA: NONE HOJA: 1
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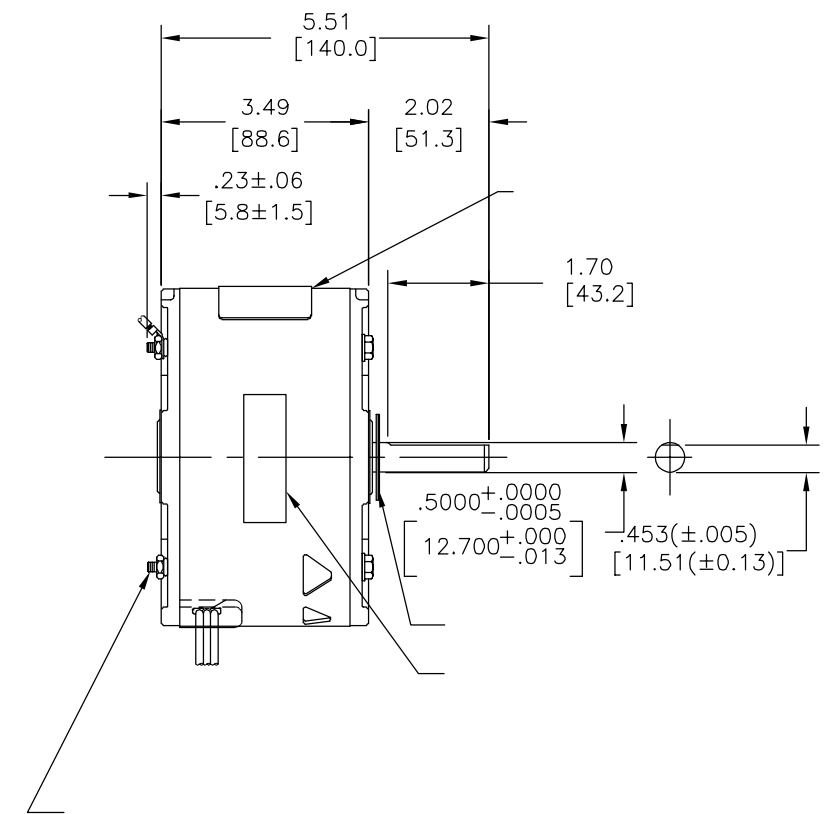
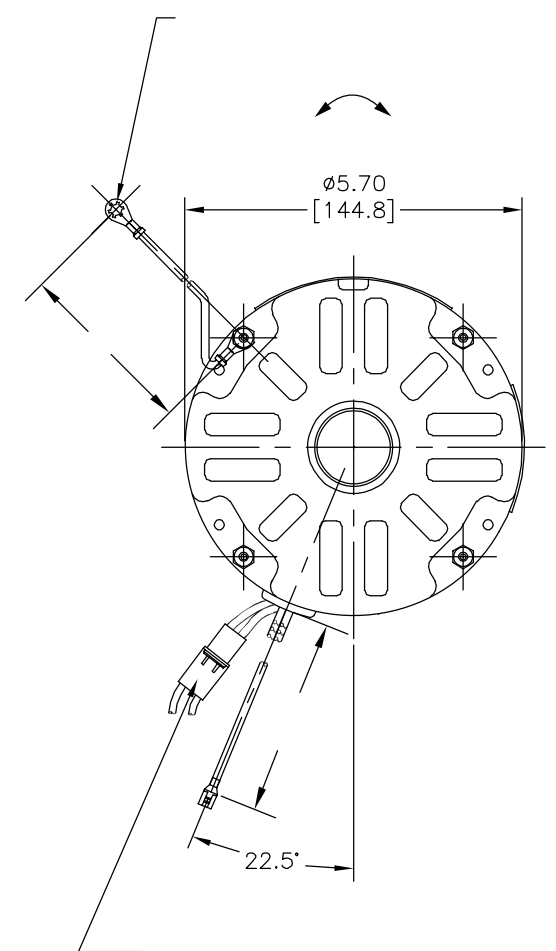
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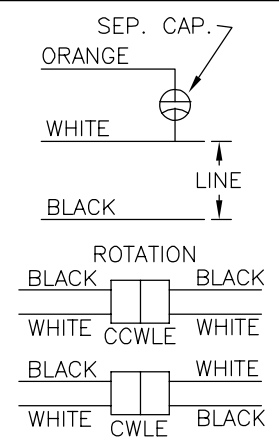
版本	ECO	编制	日期	批准	日期
D	0025526	J.M.RAMIREZ	04-23-2012	R.RASCON	04-23-2012



D
C
B
A

D
C
B
A

MODEL NO.: F48Z25A01
 CUST. P/N: 639A
 HP: 1/10
 ROT.: REV
 RPM: 1075
 TYPE: UF
 FRAME: 48Y
 VOLTS: 208-230
 PH: 1
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 CSA LOGO
 THERMALLY PROTECTED



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	17.0/15.0	
	[432/381]	
	3.0/5.0	
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	35.0/33.0	
	[889/838]	
	35.0/33.0	
	[889/838]	
	35.0/33.0	
	[889/838]	

C32696	10.2 OZ. FT.	0604298B	E46412	PRGY2	LR43341	4211-01
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- 形位公差
- 平面度
- 直线度
- ∠ 倾斜度
- ⊥ 垂直度
- // 平行度
- 圆度
- ⊘ 圆柱度
- ⊖ 面轮廓度
- ⊖ 线轮廓度
- ↗ 圆跳动
- ⊕ 位置度
- ⊙ 同轴度
- ≡ 对称度

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未注公差尺寸仅供参考。

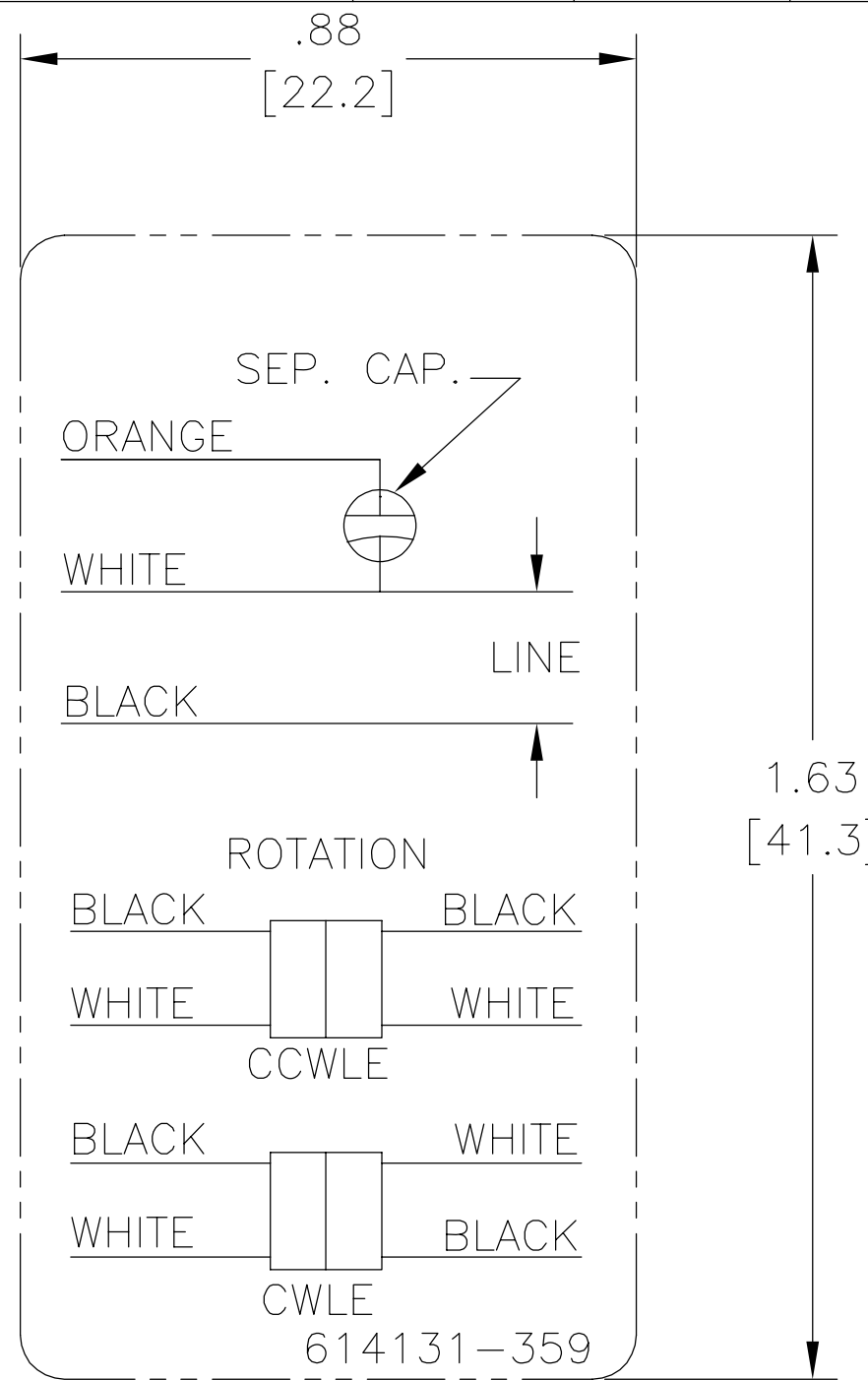
绘图:	CADDIE	05-17-2007
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名称	MODEL-RFHP-48FR OUTLINE	
图幅	C	图号 639A
比例	NONE	页号 1

4 3 2 1

REV	ECO	REV BY	DATE	APPD	DATE
B	ECO-0023374	jrupert	11-18-2011	jrupert	11-18-2011



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:

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

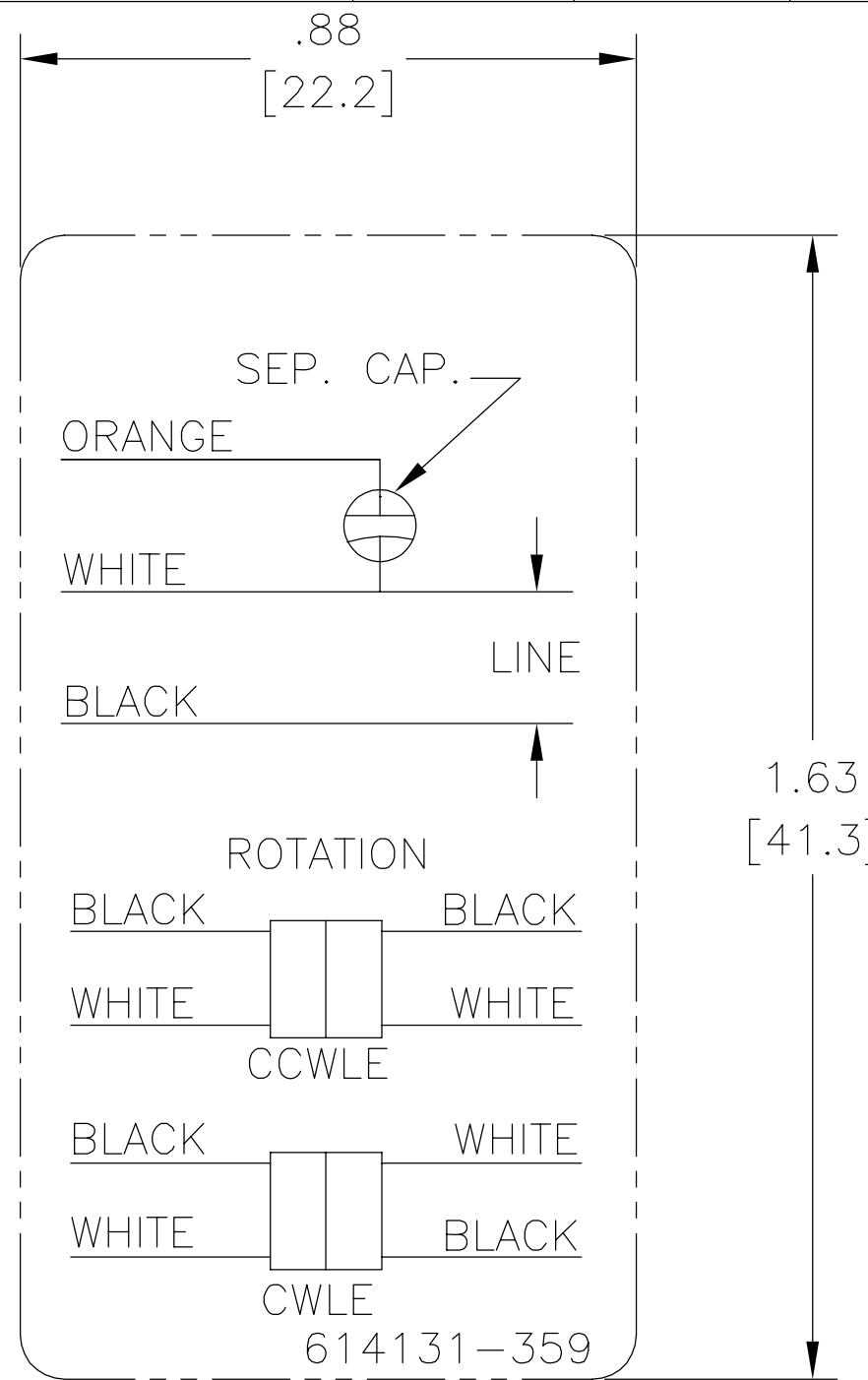
MACHINE SURFACES:
INCH 125 mm 3.2

METRIC DIMS. SHOWN IN [BRACKETS]

DR BY:	jrupert	11-18-2011
APPD:	jrupert	11-18-2011
THIRD ANGLE PROJECTION		EDS DATE 02-22-2008 FORMAT REV F
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AC Smith Innovation has a name.		ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION	
DESCRIPTION			
CONN DIAGRAM NAMEPLATE			
SIZE	A	DWG NO	614131-359
SCALE	NONE	SHEET	1

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
B	ECO-0023374	jrupert	11-18-2011	jrupert	11-18-2011



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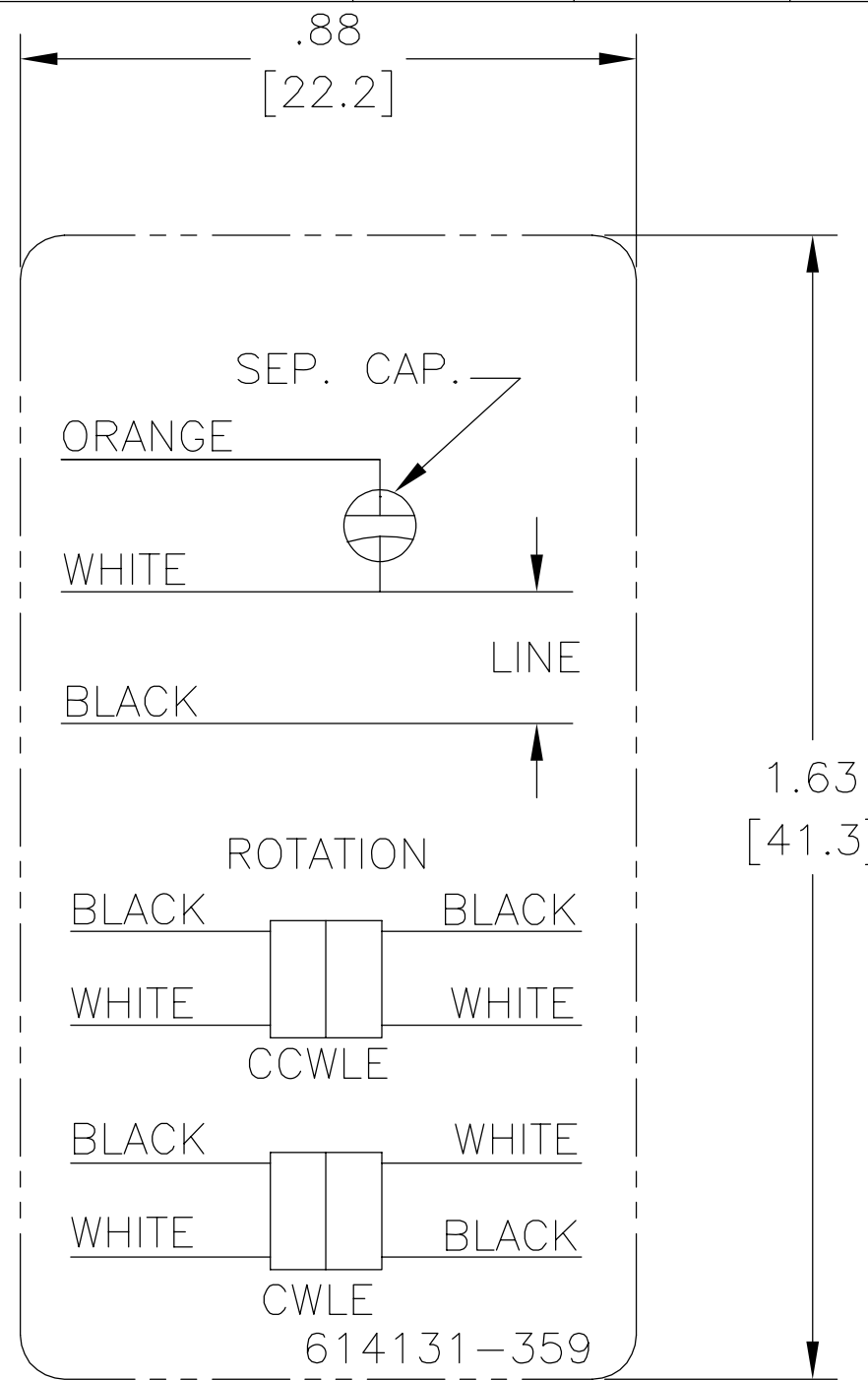
CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ▭ PLANICIDAD — RECTITUD < ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ∅ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ∩ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA

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	11-18-2011
APROBADO POR:	jrupert	11-18-2011
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 02-22-2008 REV. FORMATO: F
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		ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION
DESCRIPCION:		
CONN DIAGRAM NAMEPLATE		
TAMAÑO:	A	NUMERO DE DIBUJO:
ESCALA:NONE		614131-359
		HOJA: 1

版本	ECO	编制	日期	批准	日期
B	ECO-0023374	jrupert	11-18-2011	jrupert	11-18-2011



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4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

形位公差 □ 平面度 — 直线度 ∠ 倾斜度 ⊥ 垂直度 // 平行度 ○ 圆度 ⊘ 圆柱度 △ 面轮廓度 ∩ 线轮廓度 ↗ 圆跳动 ⊕ 位置度 ◎ 同轴度 ≡ 对称度	除另有注明 尺寸公差如下: 英寸 X XX XXX XXXX ±.1 ±.02 ±.005 ±.0005 毫米 ±0.5 ±0.13 ±0.013 角度 ±.50 度 清理毛刺和尖棱 英寸 .003-.015 毫米 0.1-0.4 内圆角 英寸 .020 毫米 0.5 表面粗糙度 英制 125 米制 3.2 米制尺寸显示在 []
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绘图:	jrupert	11-18-2011
批准:	jrupert	11-18-2011
第三角投影		图纸格式发布日期 02-22-2008 图纸格式版本 F
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 Innovation has a name.		ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION	
名称 CONN DIAGRAM NAMEPLATE			
图幅	A	图号	614131-359
比例	NONE	页号	1