

PRODUCT INFORMATION PACKET



Model No: EM3727
Catalog No: EM3727

ECONOMASTER® Condenser Fan Motor, 1/6 HP, 1 Ph, 60 Hz, 208-230 V, 1075 RPM, 1 Speed, 48 Frame,
ENCLOSED



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Nameplate Specifications

Output HP	1/6 Hp	Output KW	0.13 kW
Frequency	60 Hz	Voltage	208-230 V
Current	1.0-1.1 A	Speed	1075 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48Y	Enclosure	Totally Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
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	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	10.42 in	Frame Length	3.25 in
Shaft Diameter	0.500 in	Shaft Extension	6.0 in
Connection Drawing	614131-292	Outline Drawing	EM3727-S01

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GENERAL INFORMATION:

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

BEARINGS: BALL

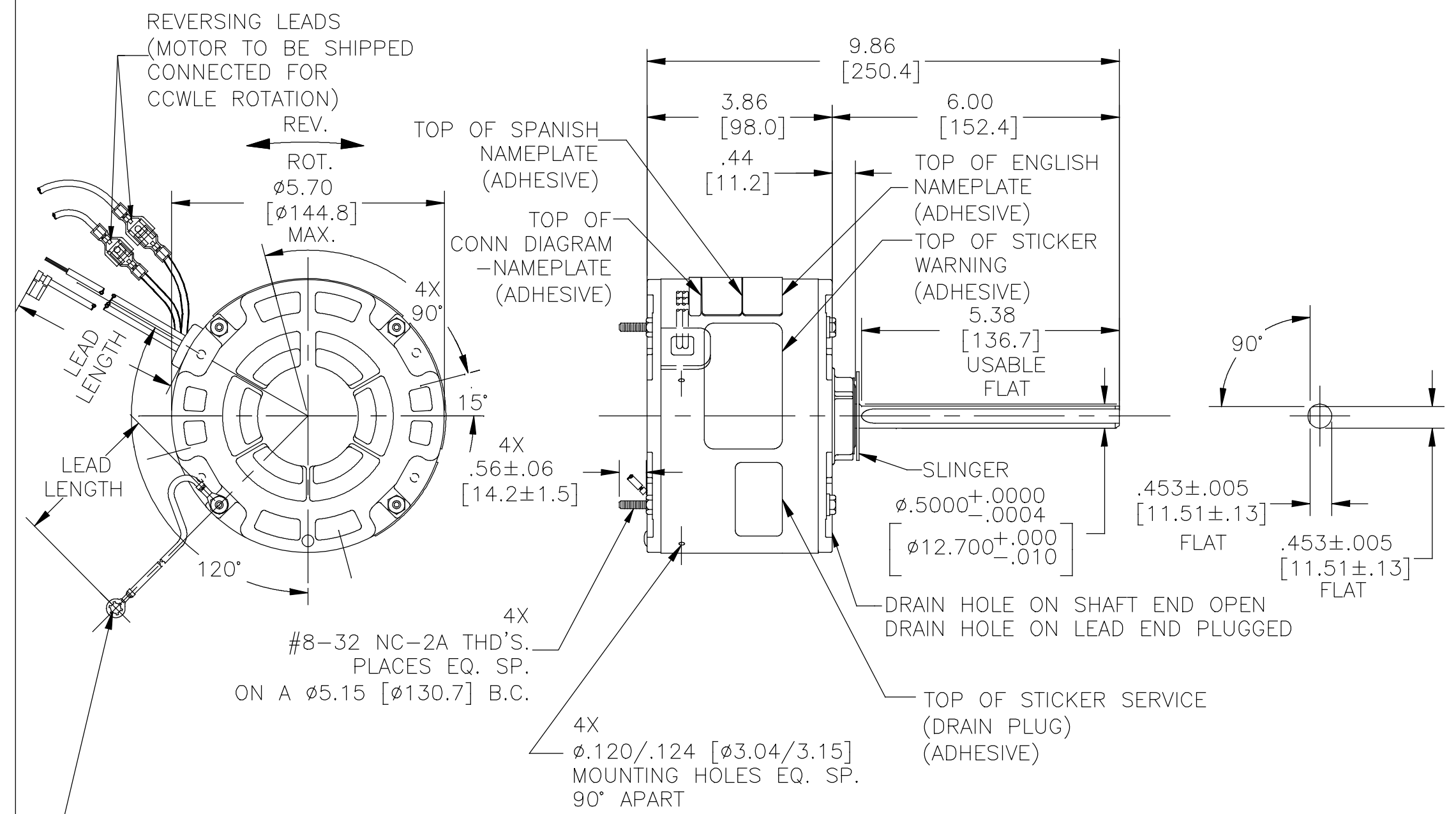
MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

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

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

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



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

- NOTES:
1. 4X SCREWS 615982-001 & 4X HEX NUTS 7555A19H01 TO BE PUT IN A POLYBAG.
 2. THE SYMBOL OF CTQ: ▲ (NO CTQ ON THIS DRAWING).
 3. MEET THE REQUIREMENT OF RoHS & REACH, SEE EP000014_5.1.

NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48AD22A01 CUST. P/N: EM3727 HP: 1/6 ROT.: REVERSIBLE RPM: 1075 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 1.0-1.1 HZ: 60 INS.: B AMB.: 60°C DUTY: AIR OVER CAP.: 5MFD/370V ENCL: ENCLOSED UL LOGO & FILE NO. CSA LOGO & FILE NO. THERMALLY PROTECTED TYPE T	

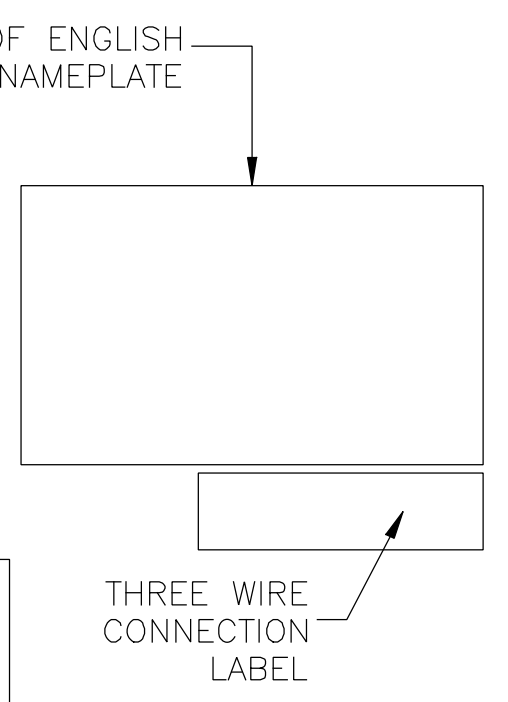
614131-292

GREEN (GROUND)	12.0/13.0 [305/330]	#10 EYELET
PURPLE(REV)	4.0/6.0 [102/152]	.25[6.4] PER-INSUL. MALE TAB
PURPLE(REV)	4.0/6.0 [102/152]	.25[6.4] PER-INSUL. FEMALE SPADE
YELLOW (REV)	4.0/6.0 [102/152]	.25[6.4] PER-INSUL. MALE TAB
YELLOW (REV)	4.0/6.0 [102/152]	.25[6.4] PER-INSUL. FEMALE SPADE
BROWN/WHITE	35.0/37.0 [889/940]	.25 [6.4] FLAG
BROWN	35.0/37.0 [889/940]	.25 [6.4] FLAG
WHITE	35.0/37.0 [889/940]	.50 [12.7] SKIN
BLACK	35.0/37.0 [889/940]	.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	ENCLOSED
END FRAME - OLE	ENCLOSED
MAIN FRAME - LE	ENCLOSED
END FRAME - LE	ENCLOSED



PERFORMANCE CURVE NO.	TORQUE @1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	CCN #	CSA FILE #	CLASS #
C32840	15.0 OZ. FT.	0603277B	E46412	PRGY2	LR43341	4211-01

DRAWING REVISION	REVISION BY	DATE
K	NANCY LIU	06-18-2020
ECO	KEYUN.GONG	06-18-2020
ECO-0187955		
SEE ECO		

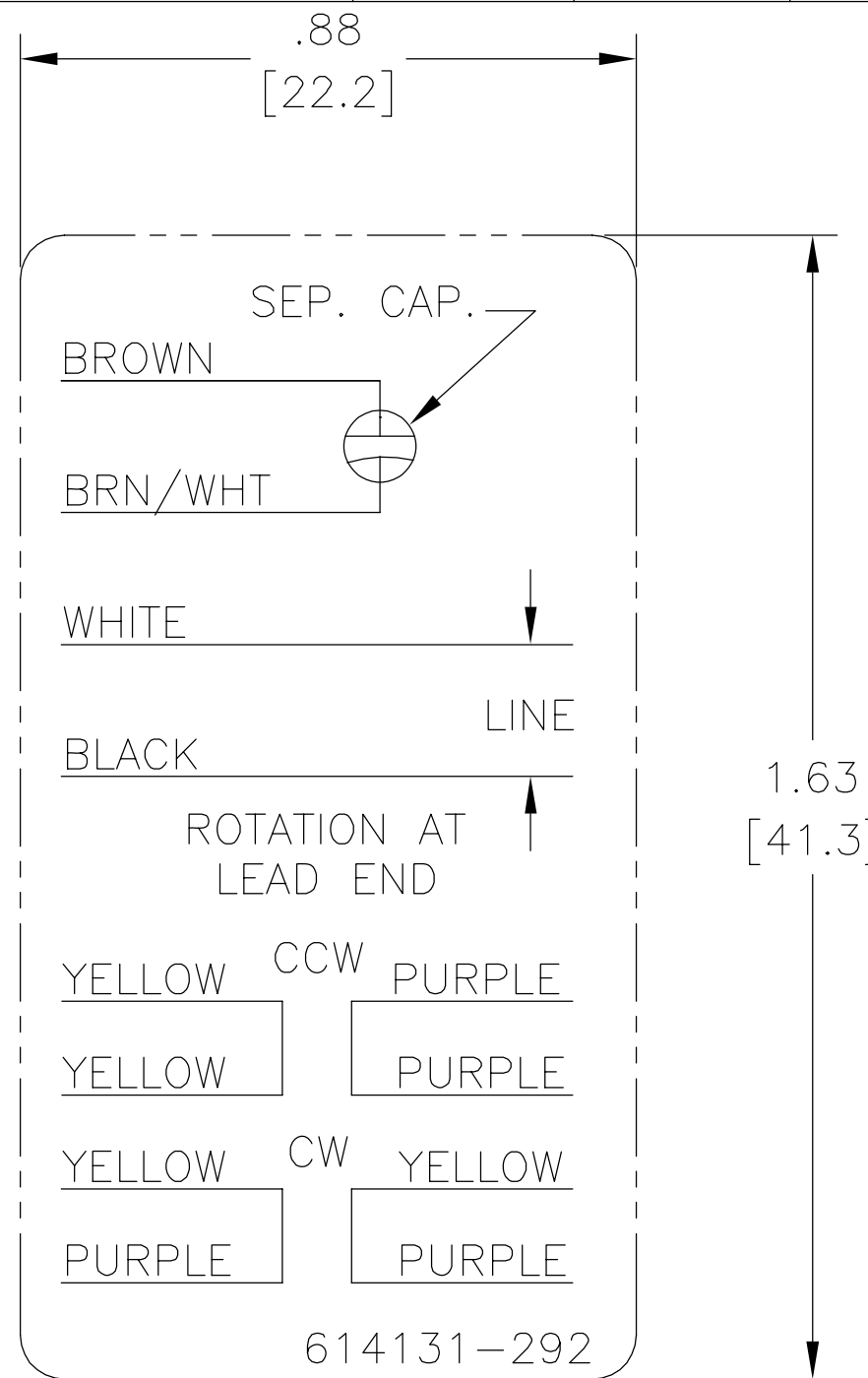
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DRAWN BY: A.NAJERA	Regal Beloit America, Inc.
DATE: 02-21-2013	
APPROVED BY: J.DE LUNA	DESCRIPTION: MODEL-RFHP-48FR OUTLINE
DATE: 02-21-2013	MATERIAL: -
PROCESS/FINISH: -	THIRD ANGLE PROJECTION
SIZE DWG NO: C	SHEET: 1

CUSTOMER: EconoMaster

EM3727

REV	ECO	REV BY	DATE	APPD	DATE
B	ECO-0022458	jrupert	09-19-2011	jrupert	09-19-2011



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.

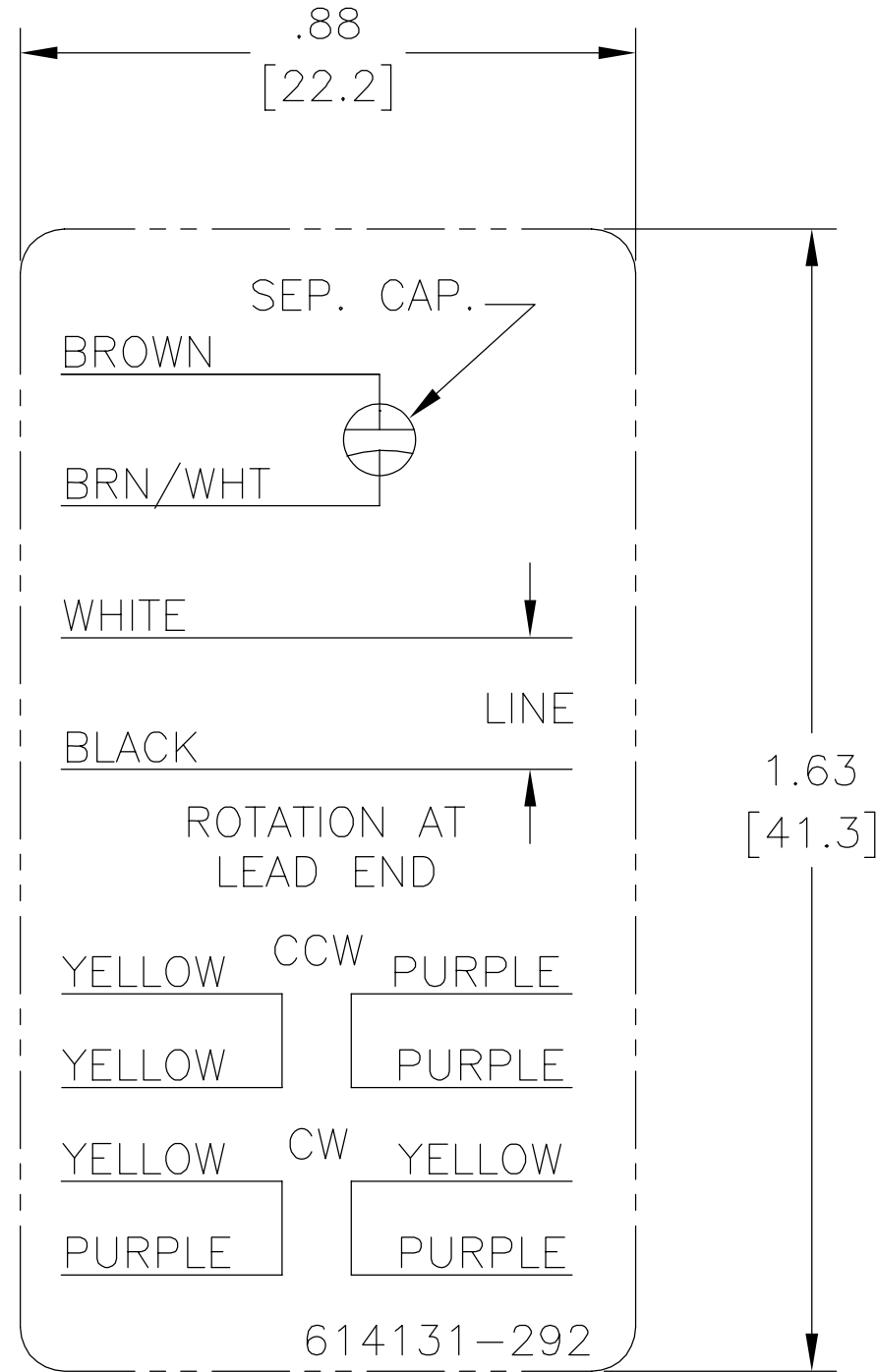
GEOMETRIC CHARACTERISTICS & SYMBOLS
 ▭ FLATNESS
 — STRAIGHTNESS
 < ANGLARITY
 ⊥ PERPENDICULARITY (SQUARENESS)
 // PARALLELISM
 ○ ROUNDNESS (CIRCULARITY)
 ∅ CYLINDRICITY
 △ PROFILE OF ANY SURFACE
 ∩ PROFILE OF ANY LINE
 ↑ RUNOUT
 ⊕ TRUE POSITION
 ⊙ CONCENTRICITY
 = SYMMETRY

UNLESS OTHERWISE SPECIFIED
 DIM. TOLERANCES ARE AS FOLLOWS:
 INCH X XX XXX XXXX
 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 09-19-2011
 APPD: jrupert 09-19-2011
 THIRD ANGLE PROJECTION
 EDS DATE 02-22-2008
 FORMAT REV F
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		ELECTRICAL PRODUCTS COMPANY <small>A DIVISION OF A. O. SMITH CORPORATION</small>	
DESCRIPTION CONN DIAGRAM NAMEPLATE			
SIZE A	DWG NO 614131-292		
SCALE NONE			SHEET 1

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
B	ECO-0022458	jrupert	09-19-2011	jrupert	09-19-2011



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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.

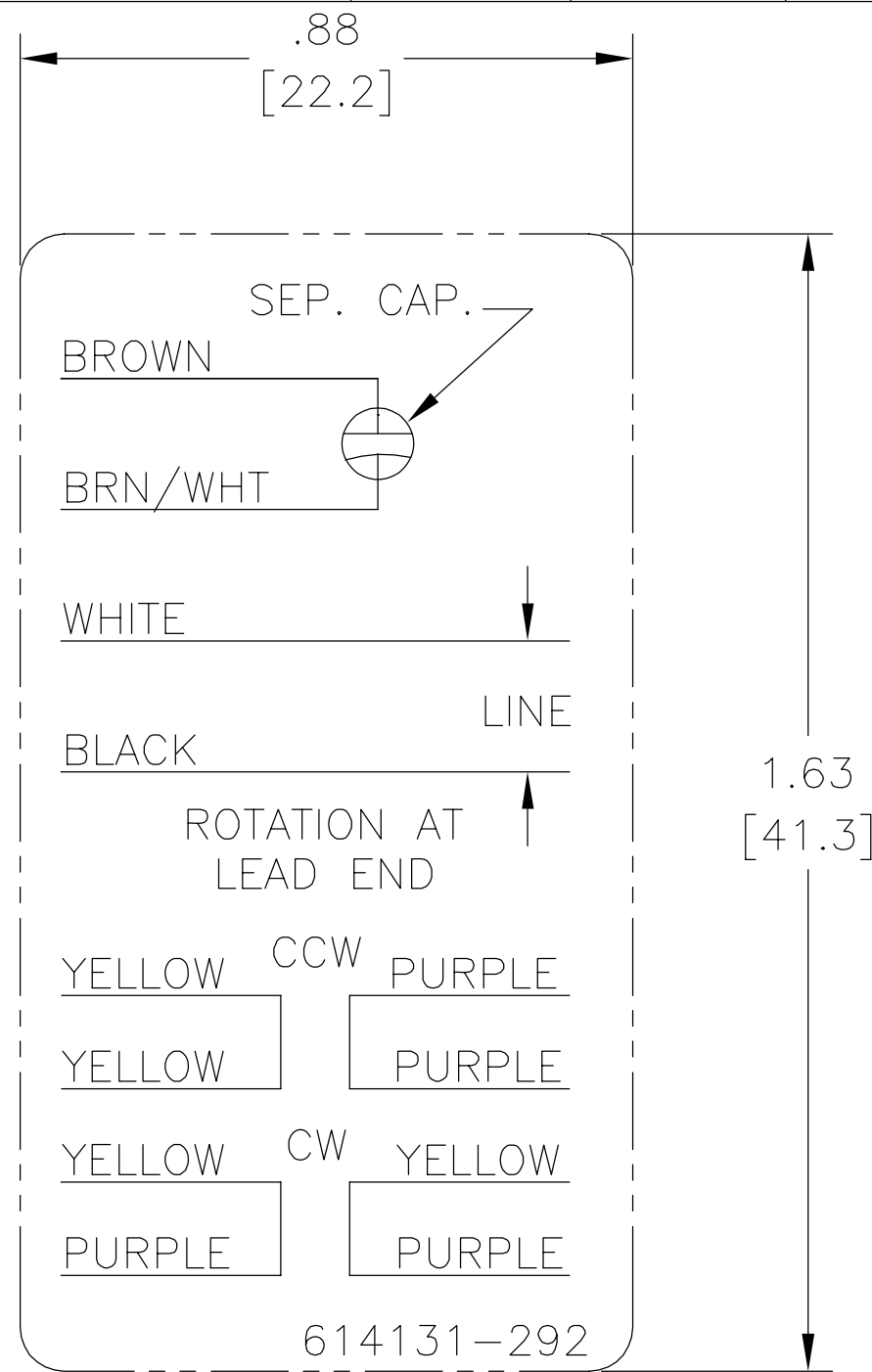
PULG .003-.015 mm 0.1-0.4
 FILETEAR ESQUINA: PULG .020 mm 0.5
 MAQUINAR SUPERFICIES
 PULG 125 mm 3.2

DIMS METRICAS MOSTRADAS [PARENTESIS]

DIBUJADO POR:	jrupert	09-19-2011
APROBADO POR:	jrupert	09-19-2011
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 02-22-2008 REV. FORMATO: F
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DESCRIPCION: CONN DIAGRAM NAMEPLATE	
TAMAÑO: A	NUMERO DE DIBUJO: 614131-292
ESCALA:NONE	HOJA: 1

版本	ECO	编制	日期	批准	日期
B	ECO-0022458	jrupert	09-19-2011	jrupert	09-19-2011



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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

除另有注明
 尺寸公差如下:
 英寸 X XX XXX XXXX
 毫米 ±.1 ±.02 ±.005 ±.0005
 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 []

绘图:	jrupert	09-19-2011
批准:	jrupert	09-19-2011
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名称	CONN DIAGRAM NAMEPLATE
图幅	A
图号	614131-292
比例	NONE
页号	1