

PRODUCT INFORMATION PACKET



Model No: EM3458F
Catalog No: EM3458F

PRO-E SERIES® Condenser Fan Motor, 1/3-1/6 HP, 1 Ph, 60 Hz, 208-230 V, 1075 RPM, 1 Speed, 48 Frame,
TEAO



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Nameplate Specifications

Phase	1	Output HP	1/3-1/6 Hp
Output KW	0.25 kW	Voltage	208-230 V
Speed	1075 rpm	Service Factor	1
Frame	48Y	Enclosure	Totally Enclosed Air Over
Thermal Protection	Automatic	Ambient Temperature	70 °C
Frequency	60 Hz	Current	1.8-2.0 A
Duty	Air Over	Insulation Class	F
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	11.68 in	Frame Length	4.19 in
Shaft Diameter	0.500 in	Shaft Extension	6.7 in
Connection Drawing	614131-292	Outline Drawing	EM3458F

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GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

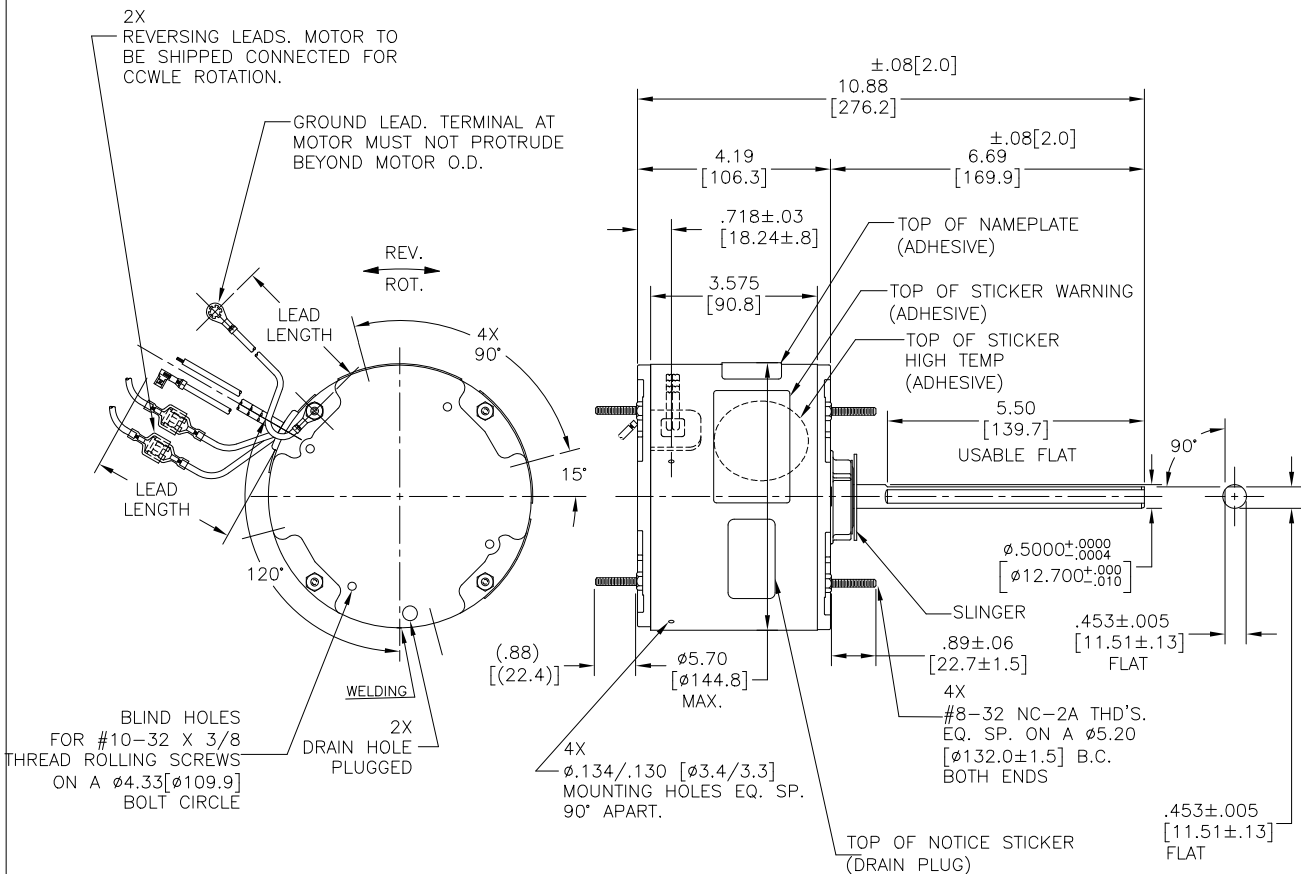
ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

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

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

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



SAMPLE PAPER SM19-018A NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: 5KCP39FGDD581S CUST. P/N: EM3458F HP: 1/3-1/6 ROT.: REVERSIBLE RPM: 1075 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 1.8-2.0 HZ: 60 INS.: F AMB.: 70° C DUTY: AIR OVER CAP.: 7.5 MFD/370V THERMALLY PROTECTED	<p>BROWN</p> <p>BRN/WHT</p> <p>WHITE</p> <p>BLACK</p> <p>ROTATION AT LEAD END</p> <p>YELLOW CCW PURPLE</p> <p>YELLOW CW PURPLE</p> <p>YELLOW PURPLE</p> <p>PURPLE PURPLE</p> <p>614131-292</p>

COLOR	LENGTH	TERMINAL OR STRIP LENGTH
GREEN/YELLOW (GROUND)	10.0/11.0 [254/279]	#10 EYELET
PURPLE (REV)	4.0/6.0 [102/152]	.25[6.4] PRE-INSUL. MALE TAB
PURPLE (REV)	4.0/6.0 [102/152]	.25[6.4] PRE-INSUL. FEMALE SPADE
YELLOW (REV)	4.0/6.0 [102/152]	.25[6.4] PRE-INSUL. MALE TAB
YELLOW (REV)	4.0/6.0 [102/152]	.25[6.4] PRE-INSUL. FEMALE SPADE
BROWN	48.0/51.0 [1219/1295]	.25[6.4] FLAG
BROWN/WHITE	48.0/51.0 [1219/1295]	.25[6.4] FLAG
WHITE	48.0/51.0 [1219/1295]	.50[12.7] SKIN
BLACK	48.0/51.0 [1219/1295]	.50[12.7] SKIN

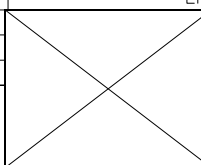
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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

MAIN FRAME - OLE	ENCLOSED
END FRAME - OLE	ENCLOSED
MAIN FRAME - LE	ENCLOSED
END FRAME - LE	ENCLOSED

- NOTES:
- CENTURY OUTSIDE MOTOR SERIES.
 - 4X SCREWS N194P1504B9 & 4X HEX NUTS N238P15B9 TO BE PUT IN A POLYBAG
 - SPRING SHIM IN LE SIDE.
 - ALL LABEL READ FROM LE

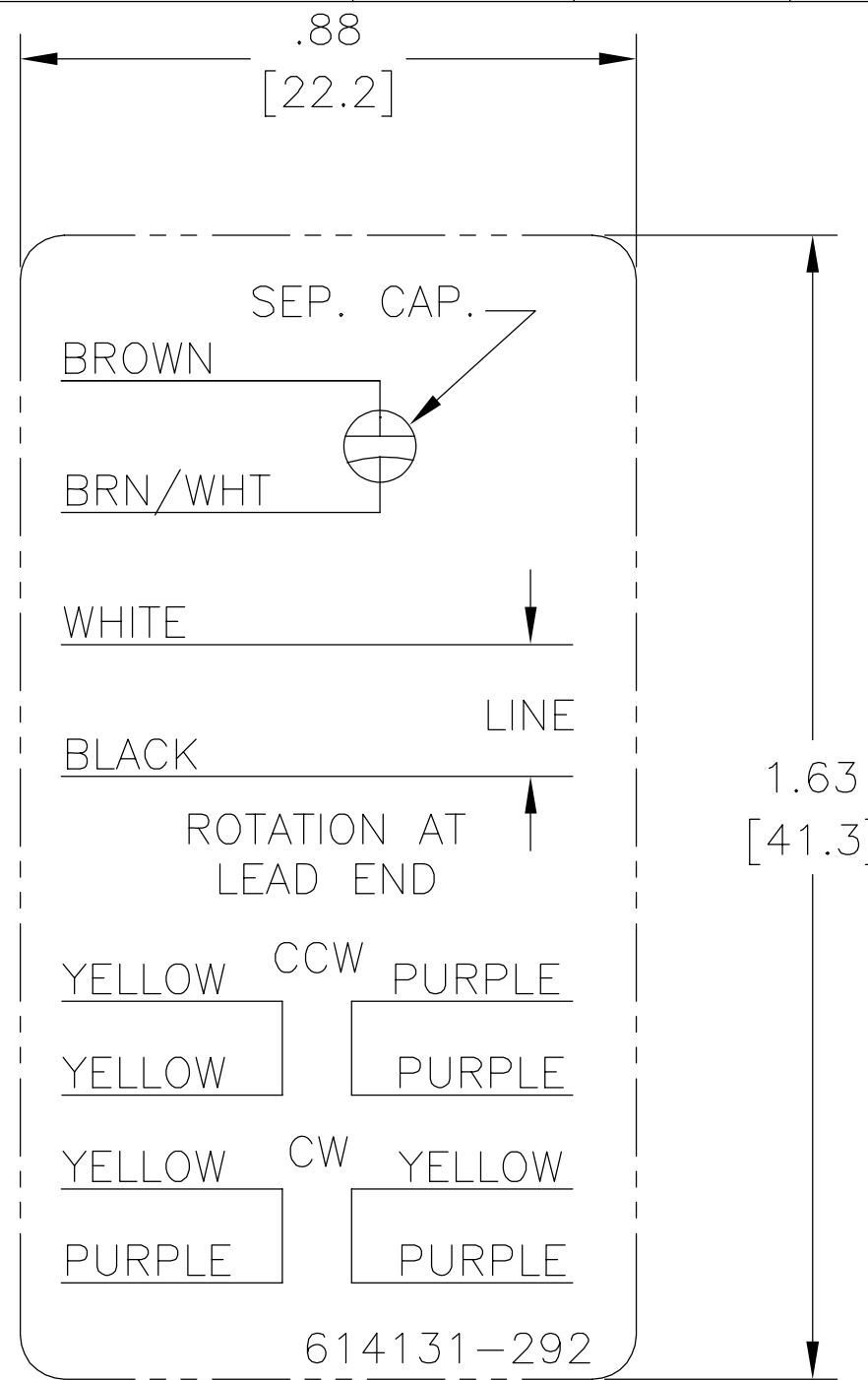
DRAWING REVISION	REVISION BY	DATE
D	MG	11-08-22
ECO	APPROVED BY	DATE
ECR-0220039	LS	11-08-22
ECO DESCRIPTION		
LE SIDE ENDSHIELD VIEW UPDATED		
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DRAWN BY:	MANOJ
DATE:	19.11.19
APPROVED BY:	LAXMAN SINGH
DATE:	19.11.19
PROCESS/FINISH	
THIRD ANGLE PROJECTION	

DESCRIPTION	MODEL-RFHP-48FR OUTLINE
MATERIAL	-
SIZE	DWG NO
C	EM3458F_FA
SHEET	1

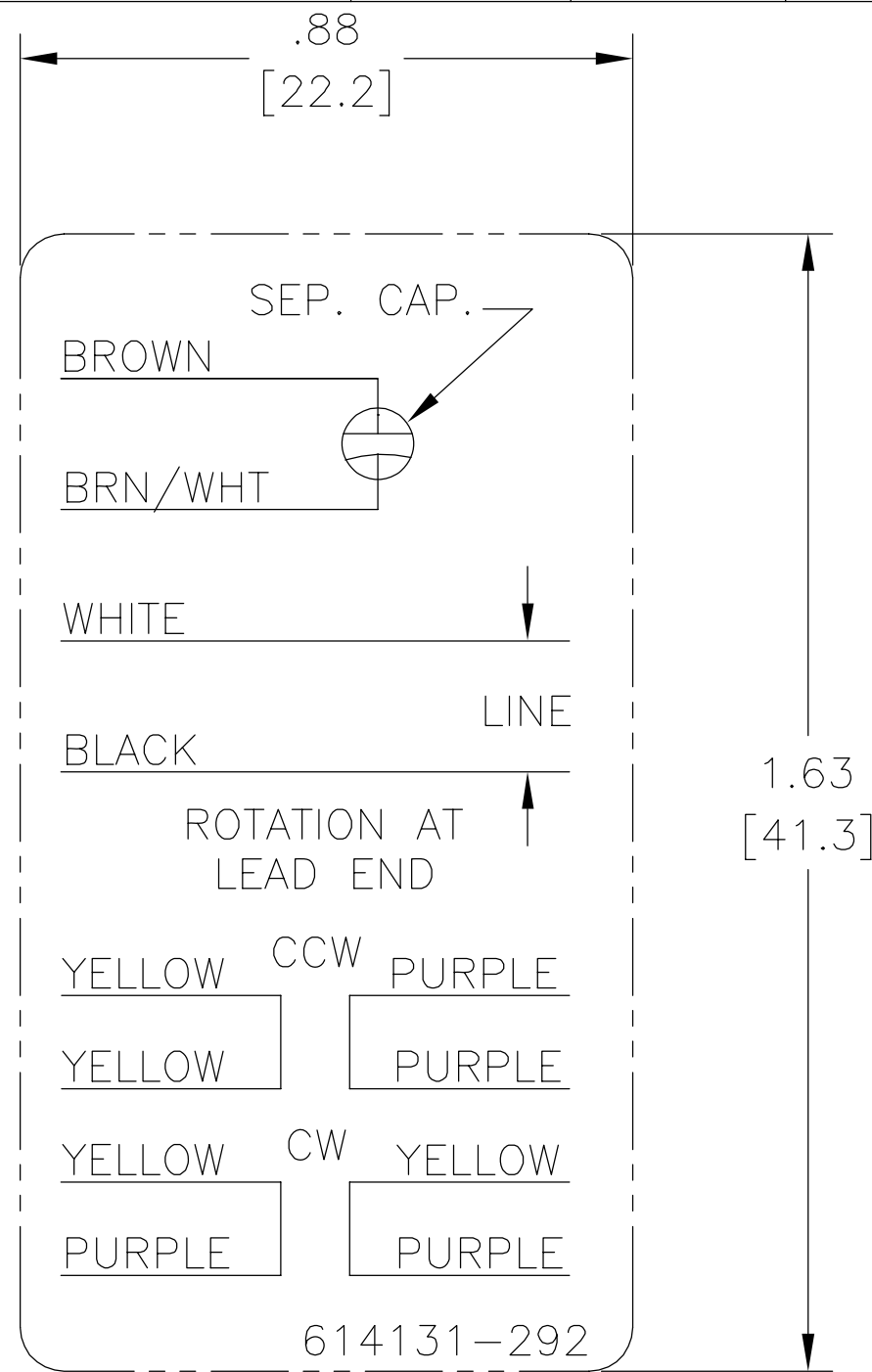
REV	ECO	REV BY	DATE	APPD	DATE
B	ECO-0022458	jrupert	09-19-2011	jrupert	09-19-2011



- 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 ∠ 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 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	ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION				
		APPD:	jrupert	09-19-2011		DESCRIPTION	CONN DIAGRAM NAMEPLATE		
		THIRD ANGLE PROJECTION	⊕	EDS DATE	02-22-2008	SIZE	A	DWG NO	614131-292
		CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF A.O. SMITH CORP. AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF A.O. SMITH CORP. -ALL RIGHTS RESERVED. ASME Y14.5M 1994		SCALE	NONE	SHEET	1		

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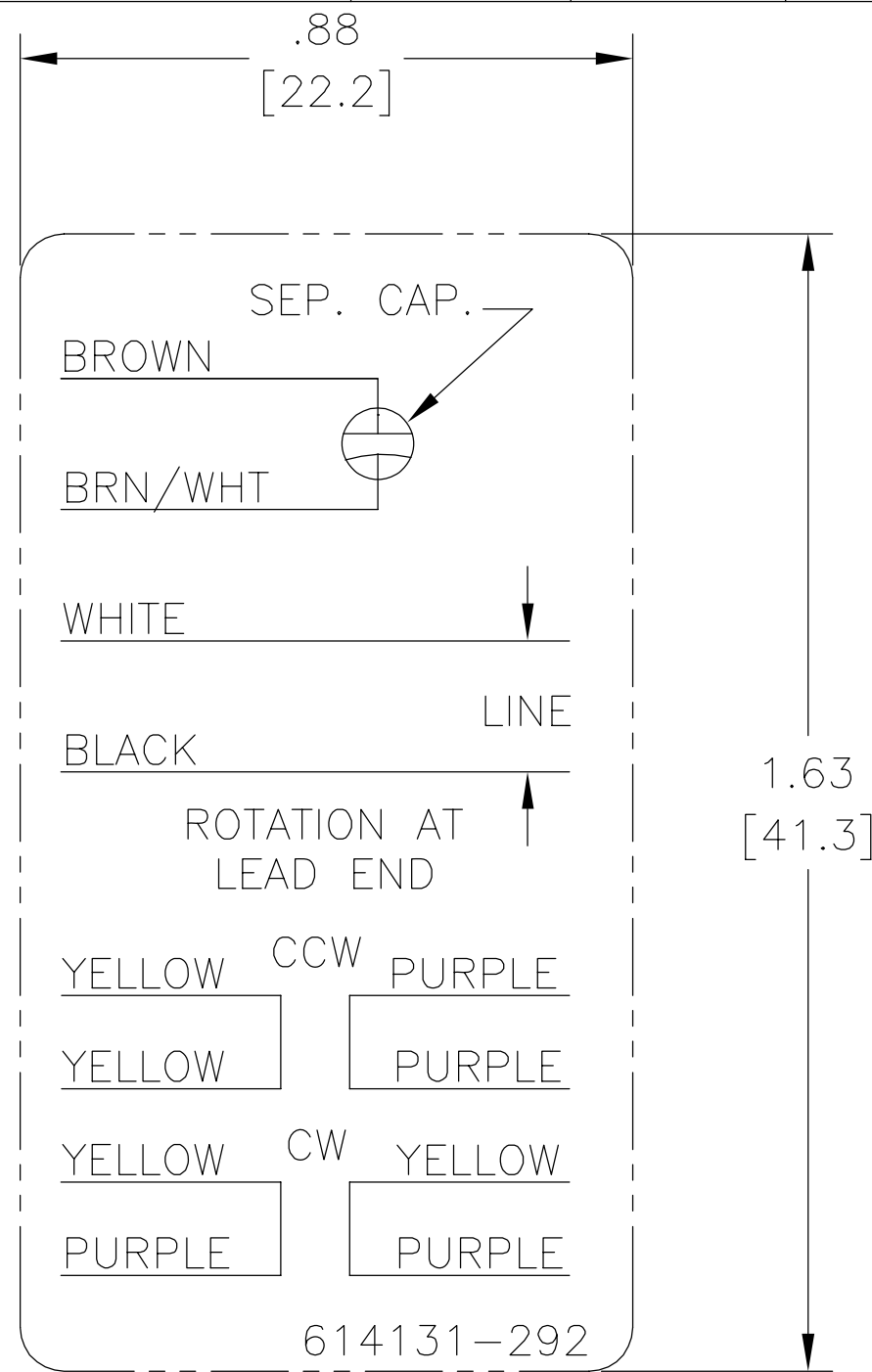
CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ▽ PLANICIDAD — RECTITUD < ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ∅ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ∩ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA

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
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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
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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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比例	NONE
页号	1