

PRODUCT INFORMATION PACKET

Model No: BL6531

Catalog No: BL6531

Fan and Blower Motor, 1/4 HP, 1 Ph, 60 Hz, 115 V, 1050 RPM, 1 Speed, 42 Frame, OAO



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Nameplate Specifications

Output HP	1/4 Hp	Output KW	0.19 kW
Frequency	60 Hz	Voltage	115 V
Current	8.9 A	Speed	1050 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	42Y	Enclosure	Open Air Over
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Shaded Pole	Starting Method	Across The Line
Poles	6	Rotation	Counterclockwise Lead End
Mounting	Flexible Arms	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	N/A	Shaft Type	Flat
Overall Length	8.59 in	Shaft Diameter	0.500 in
Shaft Extension	4.5 in		
Outline Drawing	11692-046-S01	Connection Drawing	261B865F01

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4

3

2

1

GENERAL INFORMATION:

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

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

BEARINGS: SLEEVE

MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 304)

LEADS: NO. 18 GA., .06 [1.5] THK.PVC 125' C INSUL

NAMEPLATE DATA:

EXTERNAL CONNECTION DIAGRAM

MODEL NO.: C42A85A04
CUST. P/N: -
HP: 1/4
ROT.: CCWLE
RPM: 1050
TYPE: FE
FRAME: 42Y
VOLTS: 115
PH: 1
AMPS: 8.9
HZ: 60
INS.: B
AMB.: 40° C
DUTY: AIR COVER
CAP.: -
ENCL: -
UL LOGO
CSA LOGO
THERMALLY PROTECTED

2 CD

LINE

2 CD

PERFORMANCE CURVE NO. C32241

TORQUE @ 1050 RPM (25°C) 24.5 OZ. FT.

APPROVED SAMPLE 0443086A

UL COMPONENT FILE # E46412 CCN # PRGY2

CSA FILE # LR43341 CLASS # 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

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.

REV D ECO 0025539

REV BY O. CARVAJAL

DATE 04-23-2012

APPD D. BALDERRAMA

DATE 04-23-2012

CCW ROT.

3X 120°

2X BEARING MARKER

15°

LEAD LENGTH

3X GROMMET & FERRULE ON A Ø9.00[Ø228.6] BETWEEN CENTERS

15°

3X Ø.437[Ø11.10] HOLES ON A Ø10.18[Ø258.6] BETWEEN CENTERS

8.87 [225.3]

4.09 [103.9]

4.50 [114.3]

2.90±.06 [73.6±1.5]

2X .28 [7.1]

"TOP" IDENTIFIED

TOP OF NAMEPLATE

4.00 [101.6] USABLE FLAT

TOP OF WARNING STICKER

Ø.4998+.0000-.0005 [Ø12.695+.000-.013]

.453±.005 [11.51±.13] FLAT

2 COND. 25.0/27.0 [635/686] .50[12.7] STRIP

RIPCORD 25.0/27.0 [635/686] .50[12.7] STRIP

COLOR LENGTH TERMINAL OR STRIP LENGTH

LEAD DATA

MAIN FRAME - OLE OPEN

END FRAME - OLE OPEN

MAIN FRAME - LE OPEN

END FRAME - LE OPEN

ENCLOSURE

CUSTOMER

DISTRIBUTION SERVICES

DR BY: J. RUPERT

07-13-2004

EDS DATE 11-11-2011

FORMAT REV G

THIRD ANGLE PROJECTION

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REGAL-BELOIT CORPORATION

DESCRIPTION OUTLINE

SIZE C DWG NO 11692-046

SCALE NONE SHEET 1

4

3

2

1

INFORMACION GENERAL:

OSCILACION DE FLECHA: —

JUEGO AXIAL: —

BALEROS: —

POSICION DEL MONTAJE: —

INFORMACION ELECTRICA:

PROTECTOR DE SOBRECARGA: —

CABLES: —

INFORMACION DE ETIQUETA:

MODEL NO.: C42A85A04

CUST. P/N: —

HP: 1/4

ROT.: CCWLE

RPM: 1050

TYPE: FE

FRAME: 42Y

VOLTS: 115

PH: 1

AMPS: 8.9

HZ: 60

INS.: B

AMB.: 40° C

DUTY: AIR COVER

CAP.: —

ENCL: —

UL LOGO

CSA LOGO

THERMALLY PROTECTED

DIAGRAMA DE CONEXION EXTRNA

2 CD

LINEA

2 CD

CURVAS DE FUNCIONAMIENTO

TORSION @ --- RPM (25°C)

MUESTRA APROBADA

COMPONENTE UL

CSA

C32241

24.5 OZ. FT.

0443086A

E46412

PRGY2

LR43341

4211-01

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

REGAL-BELOIT CORPORATION (RBC)

DIMENSIONES SIN TOLERANCIA SON DE REFERENCIA SOLAMENTE

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

REVISION:

ECO

REVISADO POR:

O. CARVAJAL

FECHA:

04-23-2012

APROBADO POR:

D. BALDERRAMA

FECHA:

04-23-2012

2X .28 [7.1]

3X 120°

2X MARCADOR DE BALERO

15°

LONG. DE CABLE

3X BARRENOS \varnothing .437[\varnothing 11.10] EN UN \varnothing 10.18[\varnothing 258.6] ENTRE CENTROS

3X TAPA DE CONTACTO EN UN \varnothing 9.00[\varnothing 228.6] ENTRE CENTROS

CCW ROT.

8.87 [225.3]

4.09 [103.9]

4.50 [114.3]

2.90±.06 [73.6±1.5]

"PARTE SUPERIOR" IDENTIFICADA PARTE SUPERIOR PLACA DE DATOS

4.00 [101.6] PLANO USABLE

\varnothing .4998^{+.0000}_{-.0005}

\varnothing 12.695^{+.000}_{-.013}

.453±.005 [11.51±.13] PLANO

PARTE SUPERIOR ETIQUETA DE ADVERTENCIA

NOTA

1. NO. DE PARTE DE DISTRIBUCION: BL6531

NO. DE PARTE GRAINGER: 4MB34

COLOR

LONGITUD

TERMINAL O LONGITUD DE DESFORRE

CARCASA — LOC

TAPA — LOC

CARCASA — LC

TAPA — LC

CLIENTE

DISTRIBUTION SERVICES

REGAL-BELOIT CORPORATION

DESCRIPCION:

OUTLINE

TAMAÑO: C

NUMERO DE DIBUJO: 11692-046

ESCALA: NONE

HOJA: 1

4

3

2

1

总技术要求:

轴跳动:

端部窜动量

轴承:

安装位置:

电气数据:

过载保护:

引线:

CCW
ROT.

3X
120°

15°

15°

8.87
[225.3]

4.09
[103.9]

4.50
[114.3]

2.90±.06
[73.6±1.5]

2X
.28
[7.1]

4.00
[101.6]

ø.4998^{+.0000}_{-.0005}
[ø12.695^{+.000}_{-.013}]

.453±.005
[11.51±.13]

铭牌数据

外部数据线

MODEL NO.: C42A85A04
CUST. P/N: —
HP: 1/4
ROT.: CCWLE
RPM: 1050
TYPE: FE
FRAME: 42Y
VOLTS: 115
PH: 1
AMPS: 8.9
HZ: 60
INS.: B
AMB.: 40° C
DUTY: AIR COVER
CAP.: —
ENCL: —
UL LOGO
CSA LOGO
THERMALLY PROTECTED

2 CD

2 CD

性能曲线编号

转矩在 @ — RPM
(25° C)

批准样品

UL部件

CSA

C32241

24.5 OZ. FT.

0443086A

E46412

PRGY2

LR43341

4211-01

引线数据

颜色

长度

端子或剥线长度

25.0/27.0
[635/686]

25.0/27.0
[635/686]

无引线端机壳

无引线端端盖

有引线端机壳

有引线端端盖

密封性

用户

DISTRIBUTION
SERVICES

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

ASME Y14.5M 1994

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(RBC) 在个别领域为客户
提供技术支持。鉴于RBC
未收到任何涉及电机使用和
应用环境的数据，电机的适用性
由客户自己决定。

未注公差尺寸仅供参考。

绘图:
J. RUPERT
07-13-2004

批准:

第三角投影

图纸格式发布日期 11-11-2011
图纸格式版本 G

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名称

图幅

比例

OUTLINE

C

NONE

图号

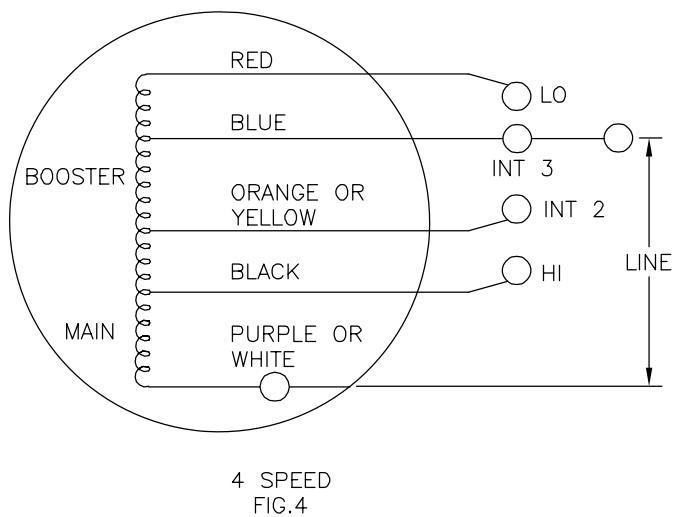
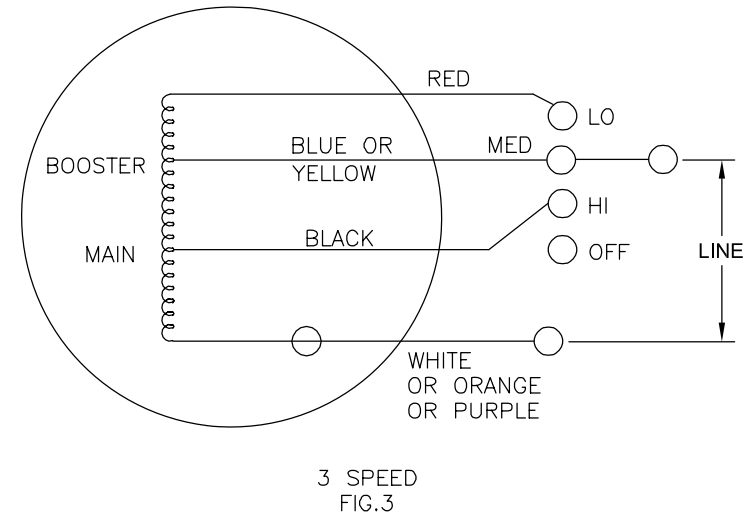
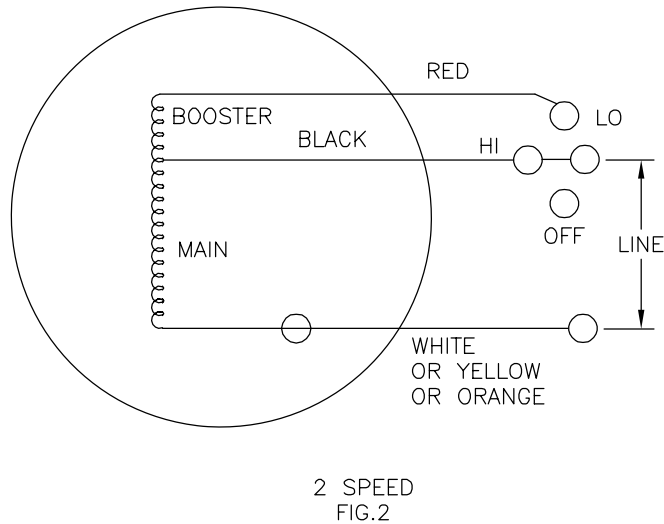
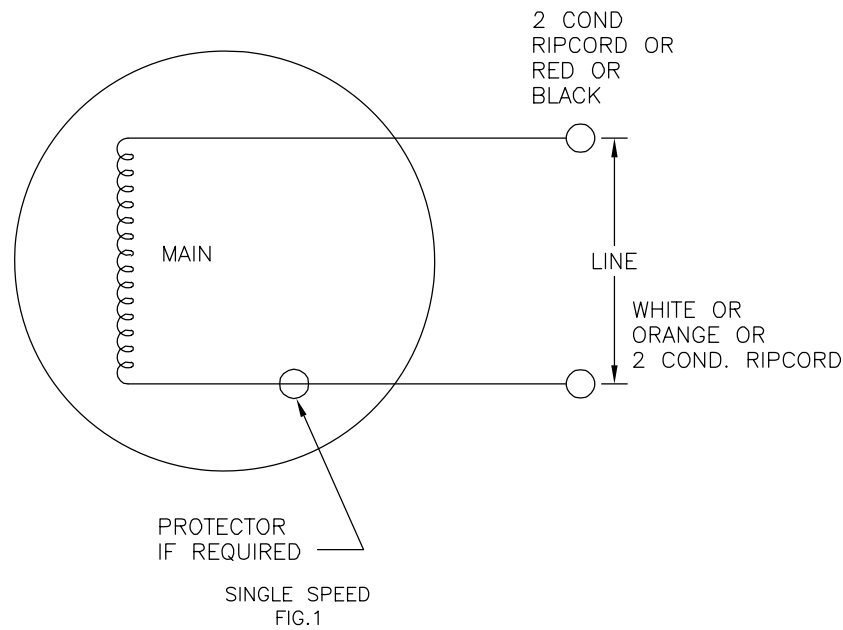
11692-046

1

5 of 8

REV	ECO	REV BY	DATE	APPD	DATE
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011

FOR SINGLE SPEED ONLY
COLOR OF LEADS TO BE OPTIONAL



QUALITY CONTROL NOTE:
TO CHECK THE WINDINGS FOR OPENS VERIFY THE
CONTINUITY AS OUTLINED BELOW.
FIG.1 BETWEEN WHITE AND BLACK OR WHITE & RED LEADS
FIG.2, 3 & 4, BETWEEN THE WHITE & RED LEADS.

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:

KLINE

10-24-1966

APPD:

RDS

10-27-1966

THIRD ANGLE PROJECTION



EDS DATE 02-22-2008

FORMAT REV F

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**ELECTRICAL PRODUCTS
COMPANY**

A DIVISION OF A. O. SMITH CORPORATION

DESCRIPTION

CONN DIAGRAM-EXTERNAL

SIZE

C

DWG NO

261B865F01

SCALE NONE

SHEET 1

4

3

2

1

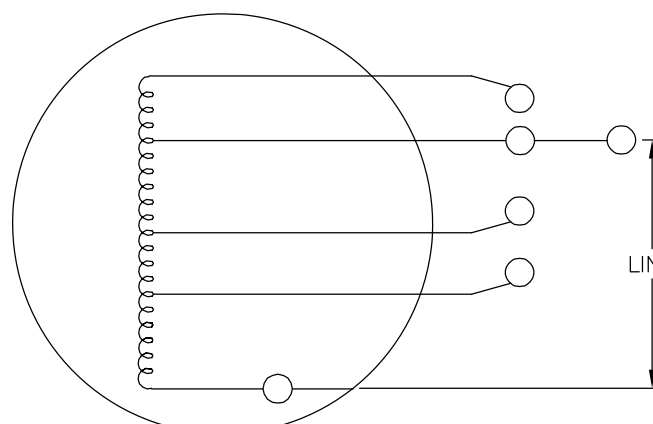
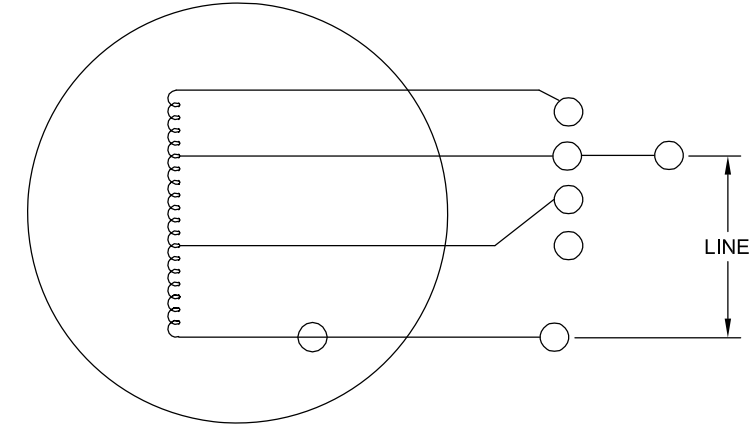
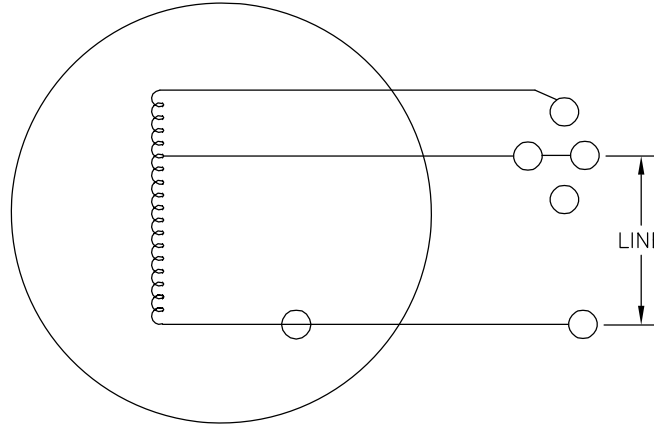
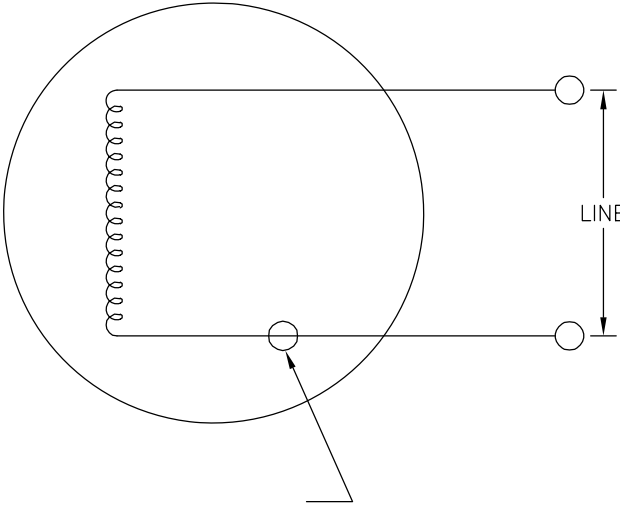
REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011



D

C

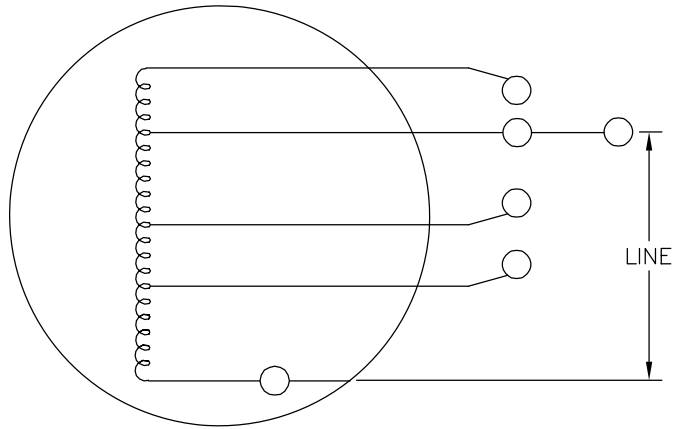
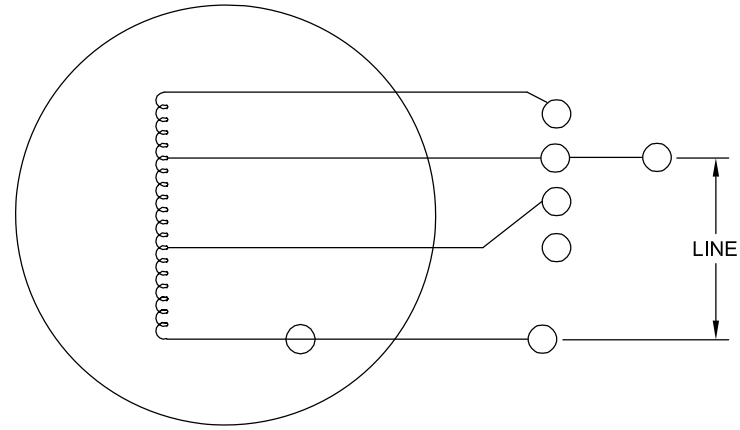
B

A



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 $.32$ DIMS METRICAS MOSTRADAS [PARENTESIS]	DIBUJADO POR: KLINE	10-24-1966	 ELECTRICAL PRODUCTS COMPANY <small>A DIVISION OF A. O. SMITH CORPORATION</small>	
		APROBADO POR: RDS	10-27-1966		DESCRIPCION: CONN DIAGRAM-EXTERNAL
		TERCER ANGULO DE PROYECCION 	FECHA EDS: 02-22-2008 REV. FORMATO: F		TAMAÑO: C NUMERO DE DIBUJO: 261B865F01
		CONFIDENCIAL: ESTE DIBUJO Y SU INFORMACION SON PROPIEDAD DE USO EXCLUSIVO Y CONFIDENCIAL DE A.O.SMITH CORP. Y NO DEBERAN SER REVELADOS, DUPLICADOS, DISTRIBUIDOS O USARSE DE OTRA MANERA SIN EL CONSENTIMIENTO ESCRITO DE A.O. SMITH CORP. -TODOS LOS DERECHOS RESERVADOS.ASME Y14.5M 1994	ESCALA:NONE		HOJA: 1

7 of 8



<div>形位公差</div> <div><div><div>□</div>平面度</div><div><div>—</div>直线度</div><div><div>∠</div>倾斜度</div><div><div>⊥</div>垂直度</div><div><div>∥</div>平行度</div><div><div>○</div>圆度</div><div><div>⊘</div>圆柱度</div><div><div>⌒</div>面轮廓度</div><div><div>⌚</div>线轮廓度</div><div><div>↗</div>圆跳动</div><div><div>⊕</div>位置度</div><div><div>⊙</div>同轴度</div><div><div>≡</div>对称度</div></div>	<div>除另有注明</div> <div>尺寸公差如下:</div> <table><tr><td>英寸</td><td>±.1</td><td>XX</td><td>±.02</td><td>XXX</td><td>±.005</td><td>XXXX</td><td>±.0005</td></tr><tr><td>毫米</td><td>±0.5</td><td></td><td>±0.13</td><td></td><td>±0.013</td><td></td><td></td></tr></table> <div>角度 ±.50 度</div> <div>清理毛刺和尖棱</div> <div>英寸 .003-.015 毫米 0.1-0.4</div> <div>内圆角</div> <div>英寸 .020 毫米 0.5</div> <div>表面粗糙度</div> <div>英制 125 米制 3.2</div> <div>米制尺寸显示在[]</div>	英寸	±.1	XX	±.02	XXX	±.005	XXXX	±.0005	毫米	±0.5		±0.13		±0.013			<div>绘图:</div> <table><tr><td>KLINE</td><td>10-24-1966</td></tr><tr><td>RDS</td><td>10-27-1966</td></tr></table> <div>第三角投影</div> <div><div><div><div></div><div></div></div><div></div></div><table><tr><td>图纸格式发布日期 02-22-2008</td></tr><tr><td>图纸格式版本 F</td></tr></table></div> <div>机密: 本图纸及相关信息所有权归A. O. SMITH公司所有。 未经A. O. SMITH公司书面授权, 不得泄露、复制、传播或作其他用途。一版权所有</div> <div>ASME Y14.5M 1994</div>	KLINE	10-24-1966	RDS	10-27-1966	图纸格式发布日期 02-22-2008	图纸格式版本 F	<div><div><div>ACSmith</div><div>innovation has a name.</div></div><div>ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION</div></div> <div>名称</div> <div>CONN DIAGRAM-EXTERNAL</div> <div><div>图幅</div><div>C</div><div>图号</div><div>261B865F01</div></div> <div><div>比例</div><div>NONE</div><div>页号</div><div>1</div></div>
	英寸	±.1	XX	±.02	XXX	±.005	XXXX	±.0005																	
	毫米	±0.5		±0.13		±0.013																			
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