

# PRODUCT INFORMATION PACKET



Model No: BL6409

Catalog No: BL6409

OEM Replacement Motor, 1/12 HP, 1 Ph, 60 Hz, 115 V, 1050 RPM, 1 Speed, 42 Frame, OPEN



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**Nameplate Specifications**

Output HP	1/12 Hp	Output KW	0.06 kW
Frequency	60 Hz	Voltage	115 V
Current	3.1 A	Speed	1050 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	42Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	No	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	Round Belly Band	Motor Orientation	Any
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	N/A	Shaft Type	Flat
Overall Length	7.41 in	Shaft Diameter	0.500 in
Shaft Extension	3 in		
Connection Drawing	261B865F01	Outline Drawing	11722-003-S01

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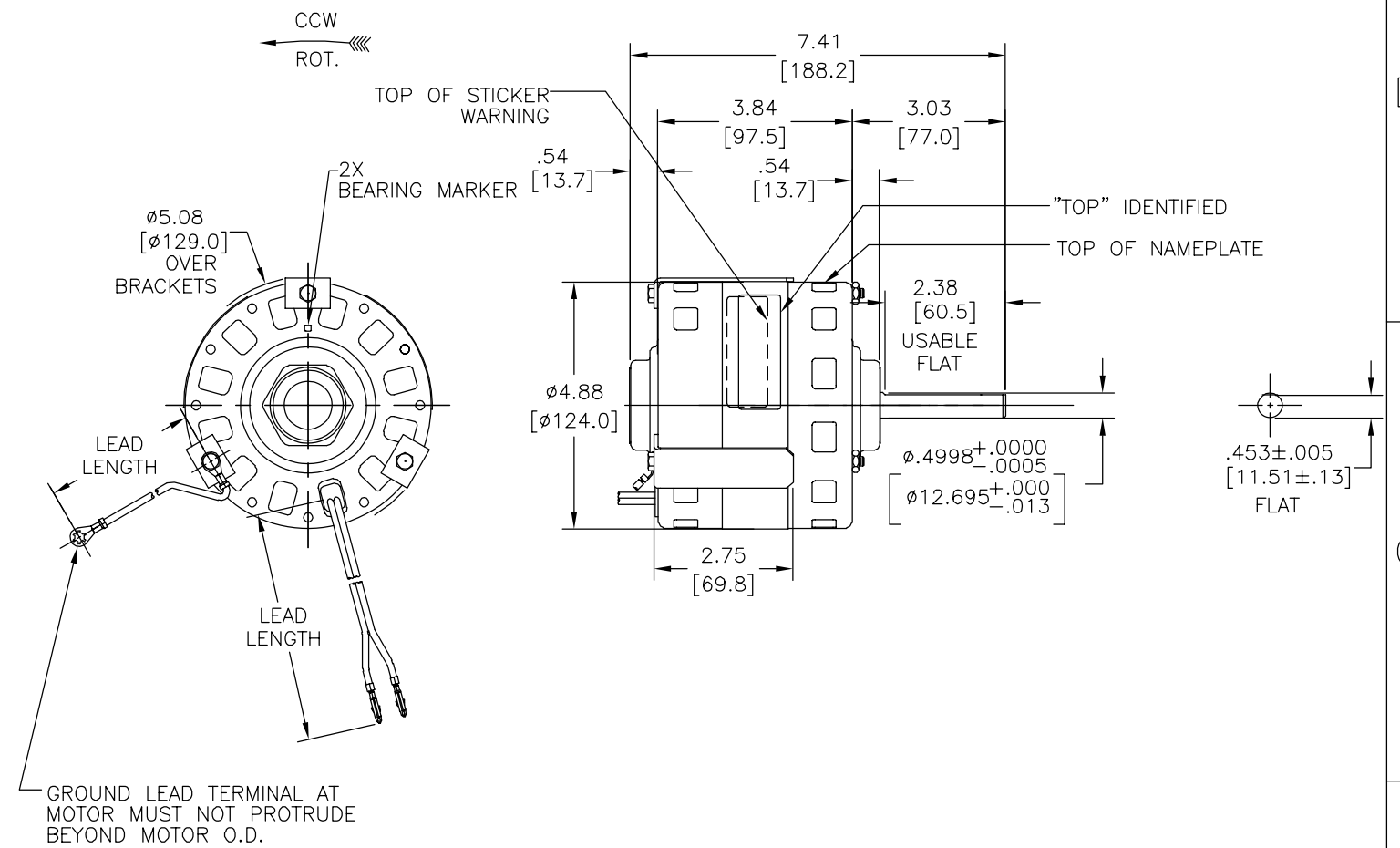
GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION  
 END PLAY: .010[.25] TO .063[1.60]  
 BEARINGS: SLEEVE  
 MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 304)  
 LEADS: NO. 18 GA., .06 [1.5] THK., 125°C INSUL.  
 GROUND LEAD: NO. 18 GA., .03 [.8] THK., (GREEN) INSUL.

REV	ECO	REV BY	DATE	APPD	DATE
E	0026381	X.ZHONG	05-28-2012	B.SHEN	05-28-2012

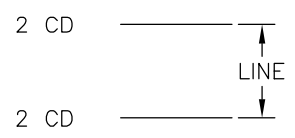


NAMEPLATE DATA:

SEE NOTE 3

EXTERNAL CONNECTION DIAGRAM

MODEL NO: B42A82A01  
 CUST. P/N: [ ]  
 HP: 1/12  
 ROT.: CCWLE  
 RPM: 1050  
 TYPE: FE  
 FRAME: 42Y  
 VOLTS: 115  
 PH: 1  
 AMPS: 3.1  
 HZ: 60  
 INS.: B  
 AMB: 40°C  
 DUTY: AIR OVER  
 CAP.: -  
 CSA LOGO  
 UL LOGO  
 THERMALLY PROTECTED TYPE C



- NOTES:
- MOTOR SHIPPED WITH LEADS AND PIN TERMINALS INSIDE PROTECTIVE TUBE.
  - ⊕ MAX. DIA. OVER INSUL. GRIP OF PIN TERMINAL IS .217[5.51]
  - DISTRIBUTION: CUST. P/N: BL6409  
GRAINGER: CUST. P/N: 4KA23

PERFORMANCE CURVE NO.	TORQUE @ 1050 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT		CSA	
C32230	7.7 OZ. FT.	0442670B	FILE #	GUIDE #	FILE #	GUIDE #
			E46412	PRGY2	LR43341	260-φ-0

GREEN(GRD)	6/7 [152/178]	#10 EYELET
2 COND. RIPCORDER	26/28 [660/711]	AMP PIN #350538-1
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

MAIN FR. - OLE	OPEN
END FR. - OLE	OPEN
MAIN FR. - LE	OPEN
END FR. - LE	OPEN

CUST	DISTRIBUTION SERVICES
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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  
 ASME Y14.5M 1994

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 DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

DR BY: CORDON 06-01-2004  
 APPD: PIATT 06-23-2004  
 THIRD ANGLE PROJECTION  
 EDS DATE 11-11-2011  
 FORMAT REV H  
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**REGAL REGAL-BELOIT CORPORATION**

DESCRIPTION: **OUTLINE**

SIZE: C DWG NO: 11722-003

SCALE: NONE SHEET: 1

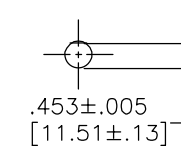
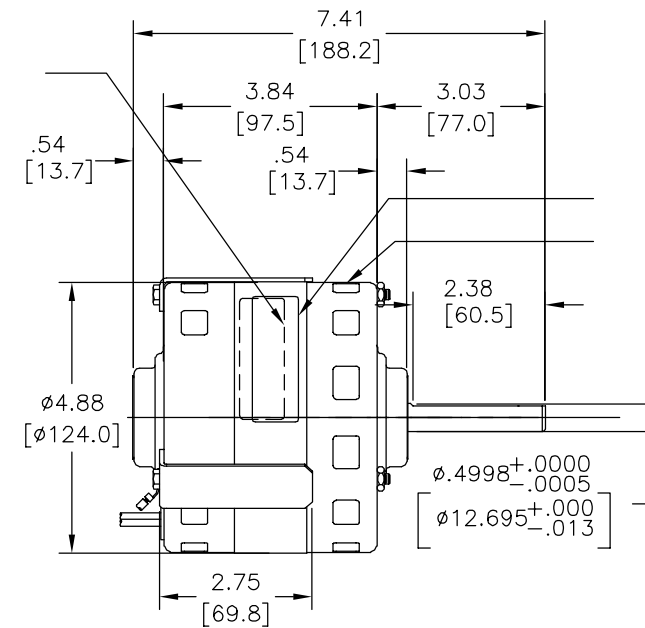
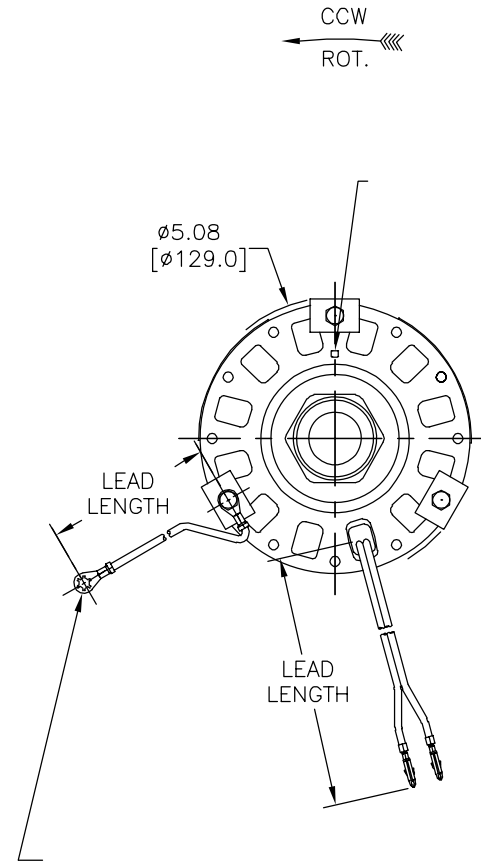
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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
E	0026381	X.ZHONG	05-28-2012	B.SHEN	05-28-2012



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 CAP.: -  
 CSA LOGO  
 UL LOGO  
 THERMALLY PROTECTED  
 TYPE C



	6/7	
	[152/178]	
2 COND.	26/28	
RIPCORD	[660/711]	

					CSA
C32230	0442670B	E46412	PRGY2	LR43341	260-0-0

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS  
 ▢ PLANICIDAD  
 - RECTITUD  
 < ANGULARIDAD  
 ⊥ PERPENDICULARIDAD (A ESCUADRA)  
 // PARALELISMO  
 ○ REDONDEZ (CIRCULARIDAD)  
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 △ PERFIL DE CUALQUIER SUPERFICIE  
 ∩ PERFIL DE CUALQUIER LINEA  
 ↗ VARIACION  
 ⊕ POSICION REAL  
 ⊙ CONCENTRICIDAD  
 = SIMETRIA  
 ASME Y14.5M 1994

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 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:	CORDON	06-01-2004
APROBADO POR:	PIATT	06-23-2004
TERCER ANGULO DE PROYECCION		FECHA EDS: 11-11-2011 REV. FORMATO: H

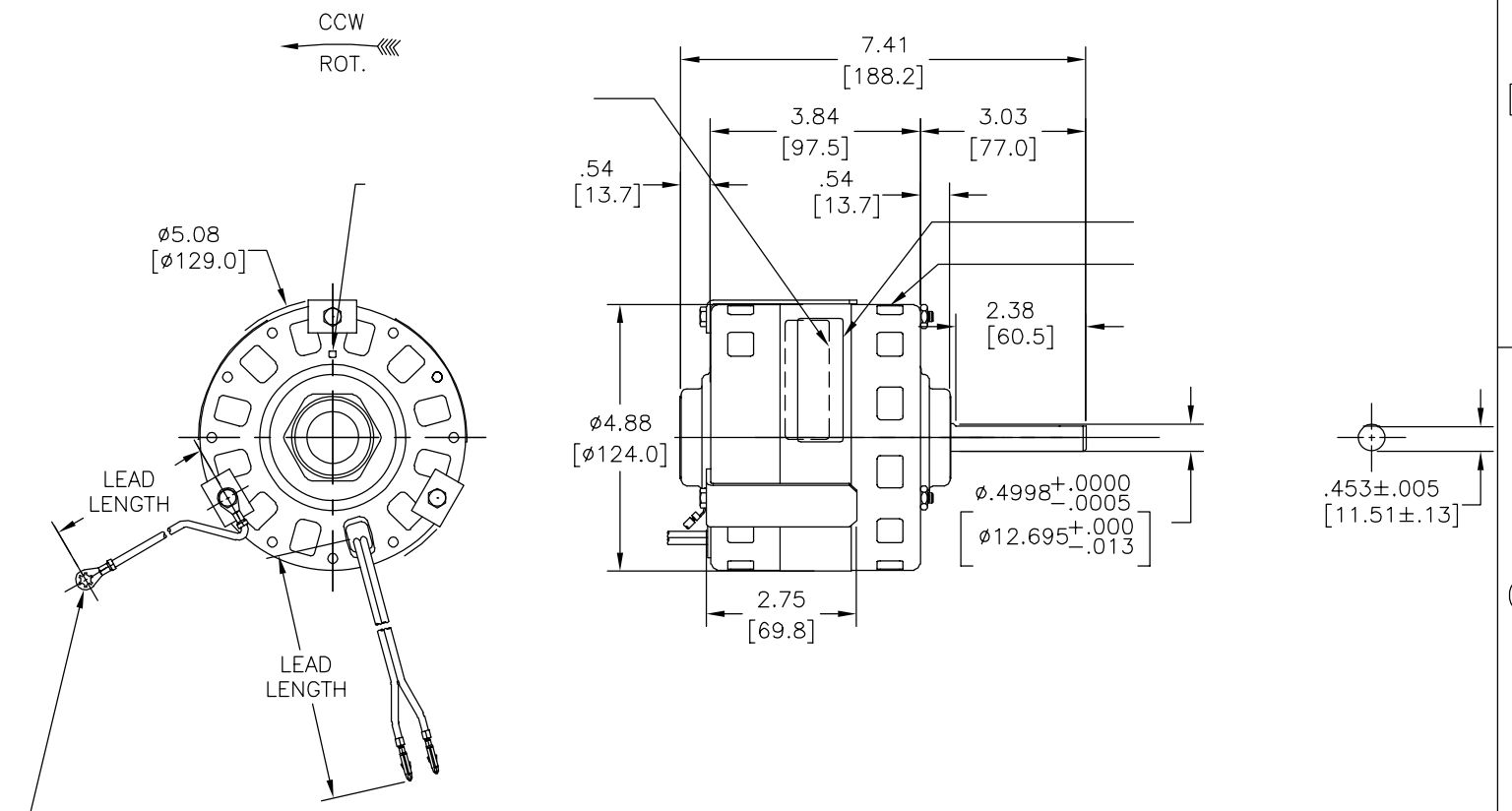
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DESCRIPCION:	OUTLINE	
TAMAÑO:	C	NUMERO DE DIBUJO: 11722-003
ESCALA:	NONE	HOJA: 1

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版本	ECO	编制	日期	批准	日期
E	0026381	X.ZHONG	05-28-2012	B.SHEN	05-28-2012



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C32230	0442670B	E46412	PRGY2	LR43341	260-ø-0

形位公差	ASME Y14.5M 1994
□ 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。

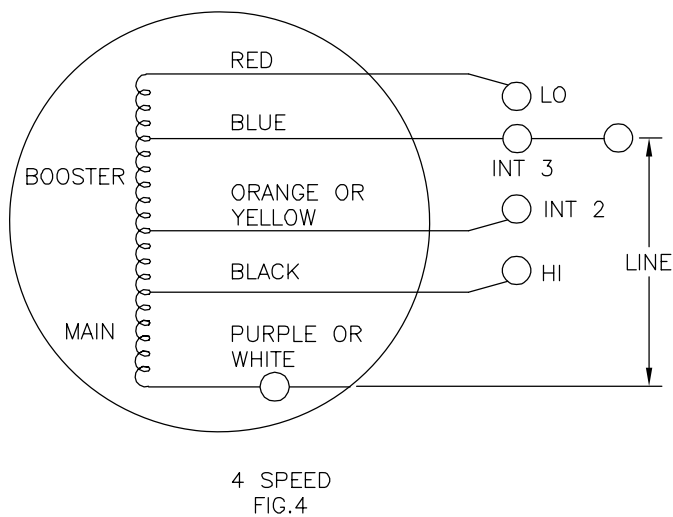
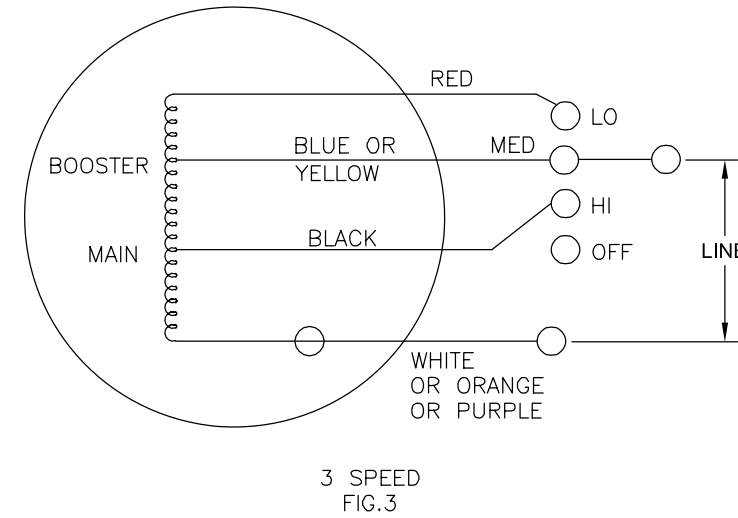
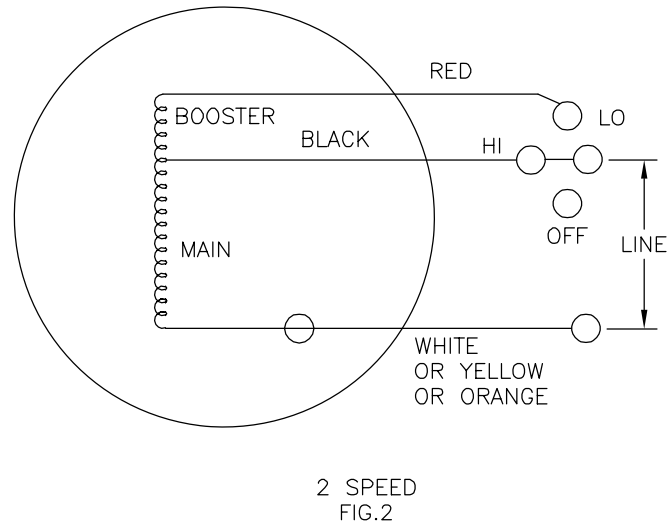
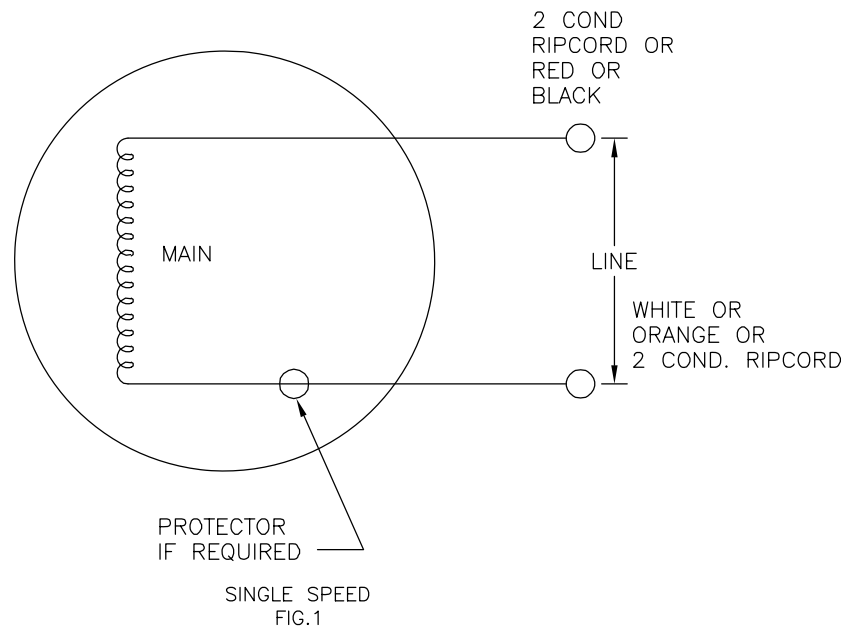
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批准:	PIATT	06-23-2004
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名称	OUTLINE	
图幅	C	图号 11722-003
比例	NONE	页号 1

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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
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- ⊙ 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:	KLINE	10-24-1966
APPD:	RDS	10-27-1966
THIRD ANGLE PROJECTION		EDS DATE 02-22-2008 FORMAT REV F
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DESCRIPTION CONN DIAGRAM-EXTERNAL			
SIZE C	DWG NO 261B865F01	SHEET 1	
SCALE NONE			

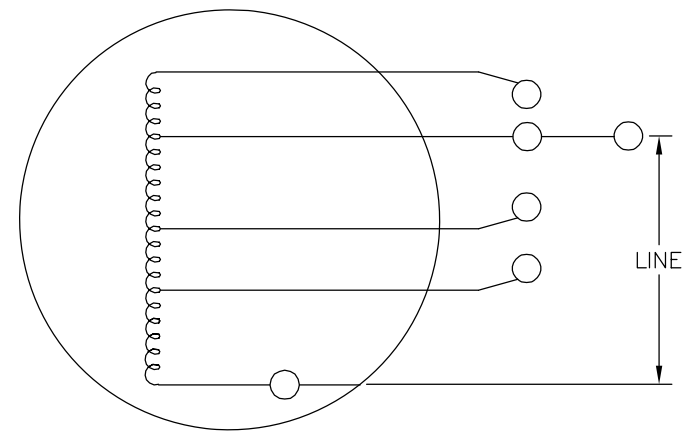
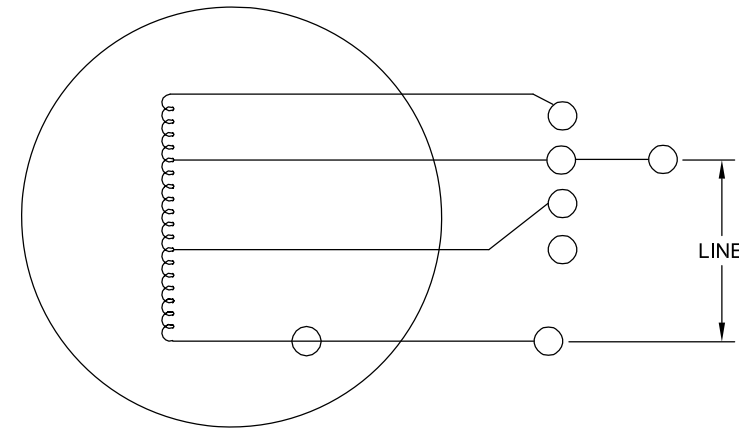
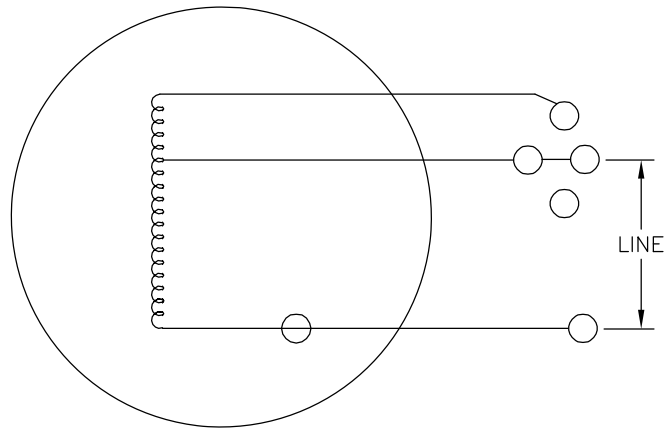
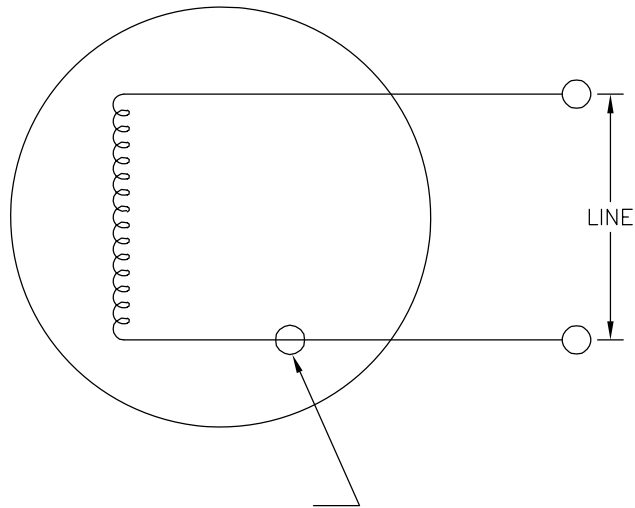
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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011



CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

- ▭ PLANICIDAD
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- ∅ CILINDRICIDAD
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- ∩ 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	±.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
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FILETEAR ESQUINA: PULG .020 mm 0.5  
MAQUINAR SUPERFICIES  
PULG 125 mm 3.2

DIMS METRICAS MOSTRADAS [PARENTESIS]

DIBUJADO POR:	KLINE	10-24-1966
APROBADO POR:	RDS	10-27-1966
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 02-22-2008 REV. FORMATO: F
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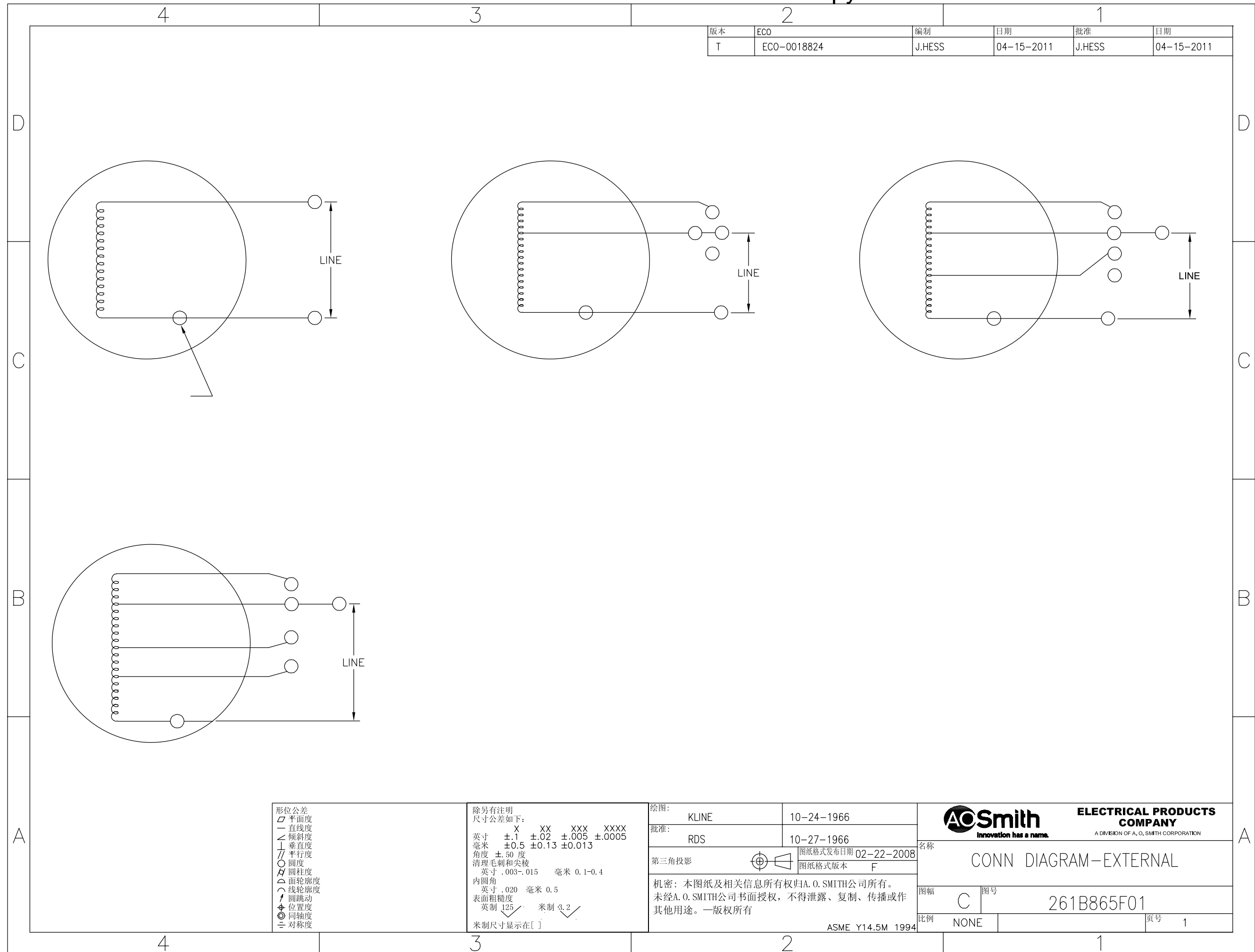
 <b>ELECTRICAL PRODUCTS COMPANY</b> <small>A DIVISION OF A. O. SMITH CORPORATION</small>	
DESCRIPCION:	
CONN DIAGRAM-EXTERNAL	
TAMAÑO: C	NUMERO DE DIBUJO: 261B865F01
ESCALA: NONE	HOJA: 1

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版本	ECO	编制	日期	批准	日期
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011

形位公差	除另有注明 尺寸公差如下:
□ 平面度	英寸 X ±.1 XX ±.02 XXX ±.005 XXXX ±.0005
— 直线度	毫米 ±0.5 ±0.13 ±0.013
∠ 倾斜度	角度 ±.50 度
⊥ 垂直度	清理毛刺和尖棱
∥ 平行度	英寸 .003-.015 毫米 0.1-0.4
○ 圆度	内圆角
⊙ 圆柱度	英寸 .020 毫米 0.5
△ 面轮廓度	表面粗糙度
∩ 线轮廓度	英制 125 米制 3.2
↗ 圆跳动	米制尺寸显示在 [ ]
⊕ 位置度	
◎ 同轴度	
≡ 对称度	

绘图:	KLINE	10-24-1966
批准:	RDS	10-27-1966
第三角投影		图纸格式发布日期 02-22-2008 图纸格式版本 F

名称	CONN DIAGRAM-EXTERNAL	
图幅	C	图号 261B865F01
比例	NONE	页号 1

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