

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

Phase	1	Output HP	1/12 Hp
Output KW	0.06 kW	Voltage	115 V
Speed	1050 rpm	Service Factor	1.0
Frame	42Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
Frequency	60 Hz	Current	3.1 A
Duty	Air Over	Insulation Class	B
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		
Outline Drawing	11722-003-S01	Connection Drawing	261B865F01

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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

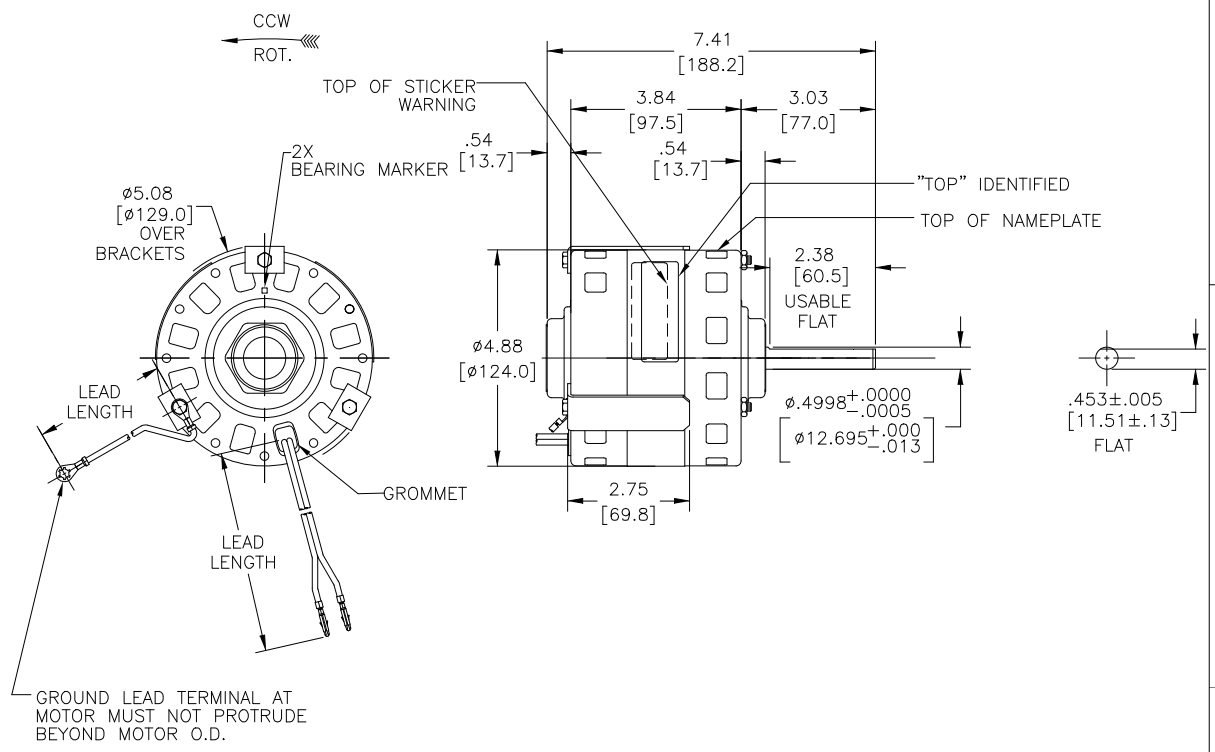
ELECTRICAL DATA:

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

LEADS: NO. 18 GA., .06 [1.5] THK., 90°C INSUL. 2 CONDUCTOR BLACK RIPCORD

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

REV	ECO	REV BY	DATE	APPD	DATE
EB	ECR-0242877	ANJANI	05-29-2025	DARREL CLAYTON	05-29-2025



- 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

NAMEPLATE DATA:

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



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

GREEN(GRD)	6/7 [152/178]	#10 EYELET
2 COND. RIPCORD	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
------	-----------------------

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

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.

ASME Y14.5M 1994

DR BY: CORDON 06-01-2004

APPD: PIATT 06-23-2004

THIRD ANGLE PROJECTION

EDS DATE 11-11-2011
FORMAT REV H

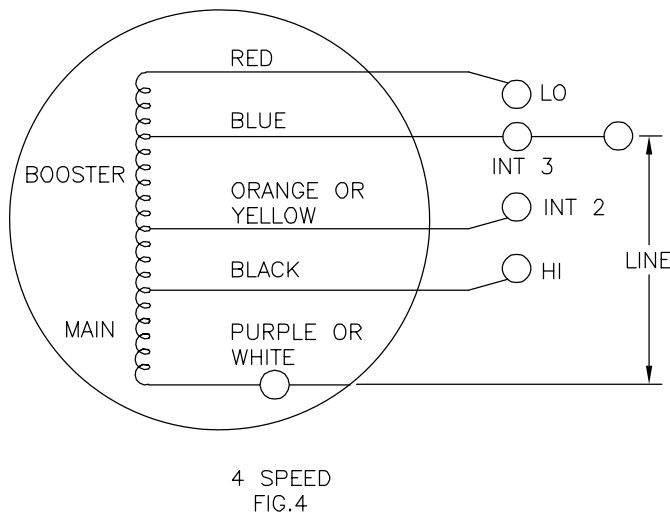
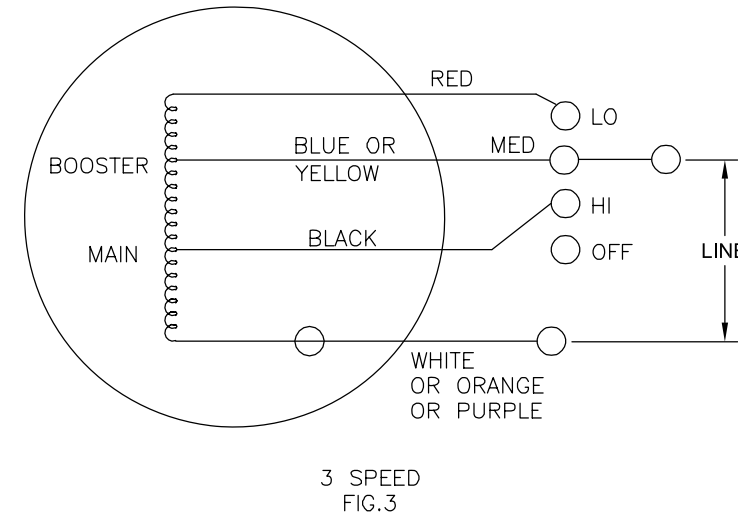
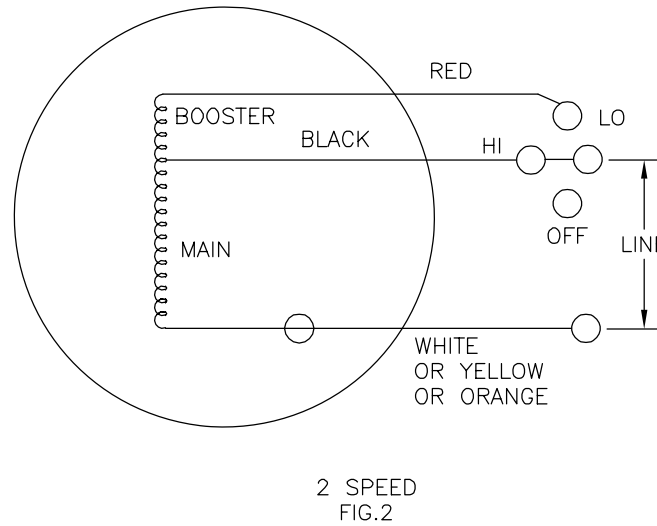
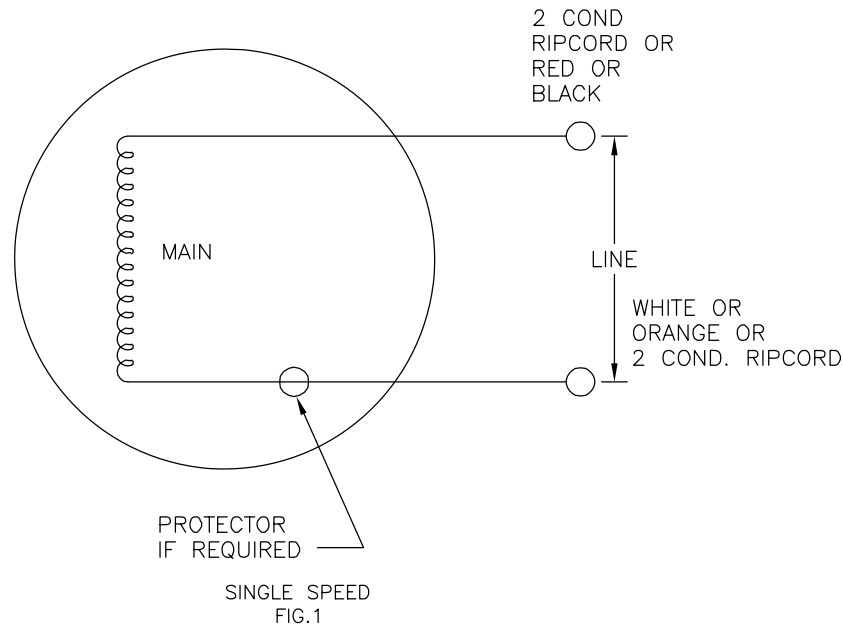
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DESCRIPTION	OUTLINE
SIZE	C
DWG NO	11722-003
SCALE	NONE
SHEET	1

Regal Beloit America, Inc.	
SCALE	NONE
SHEET	1

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	±.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			

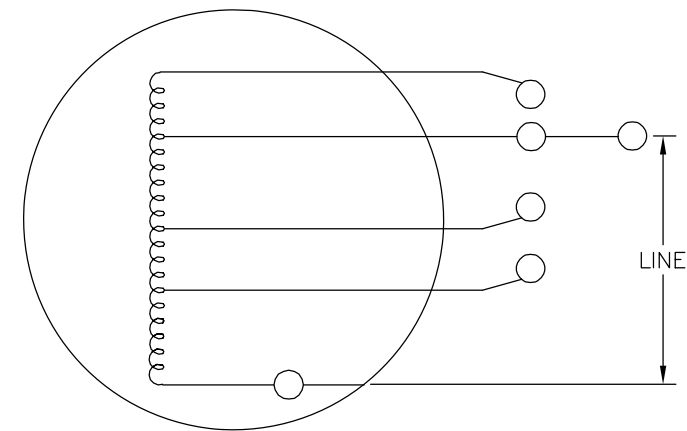
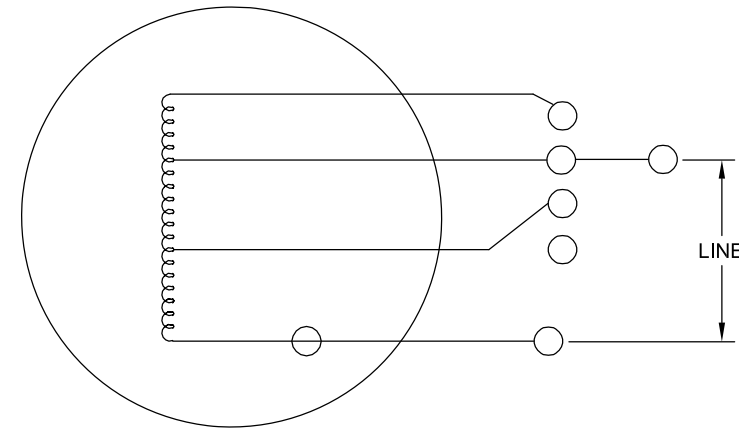
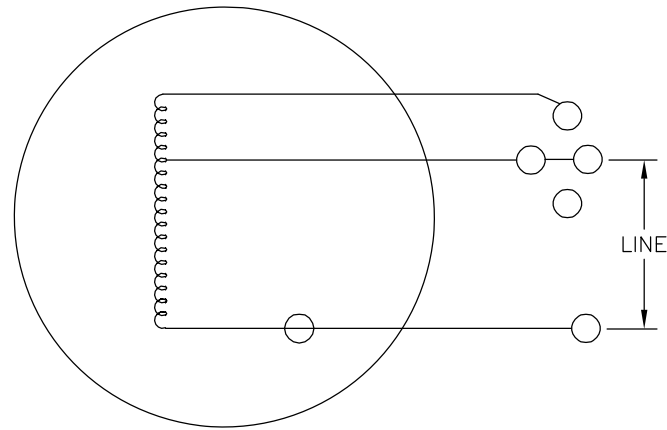
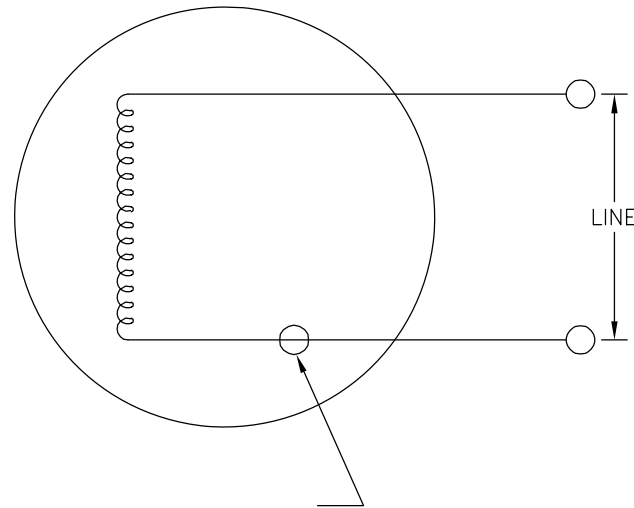
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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011



CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

- ▭ PLANICIDAD
- 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 $\frac{1}{125}$ mm .32

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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DESCRIPCION:
CONN DIAGRAM-EXTERNAL

TAMAÑO: C NUMERO DE DIBUJO: 261B865F01

ESCALA: NONE HOJA: 1

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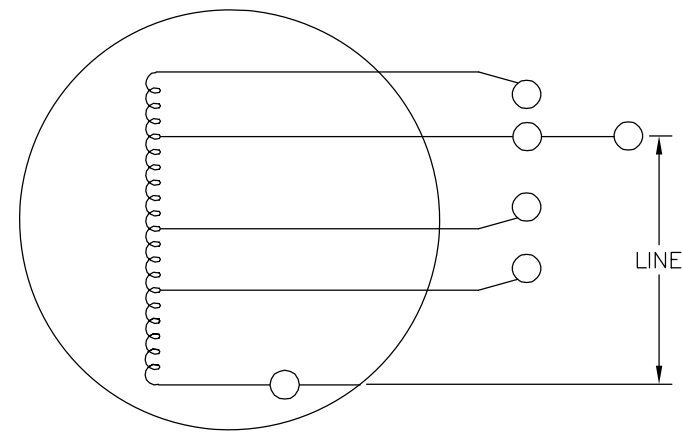
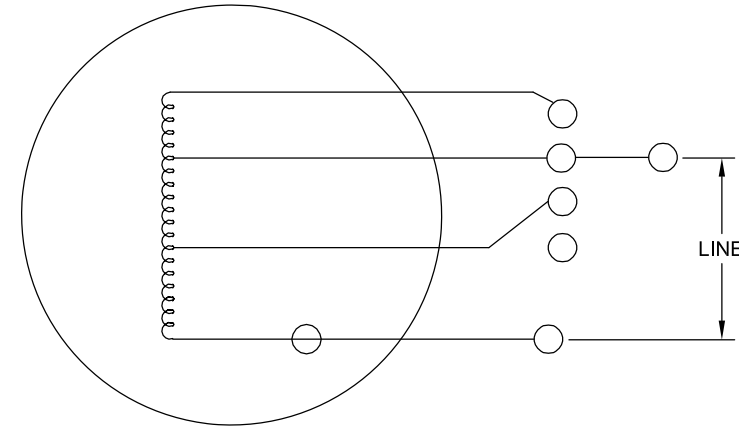
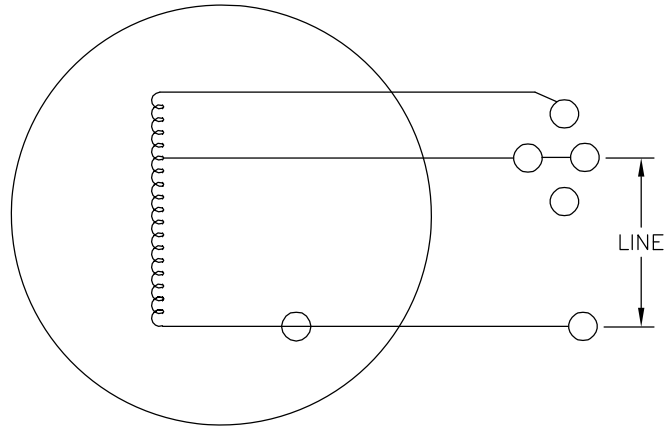
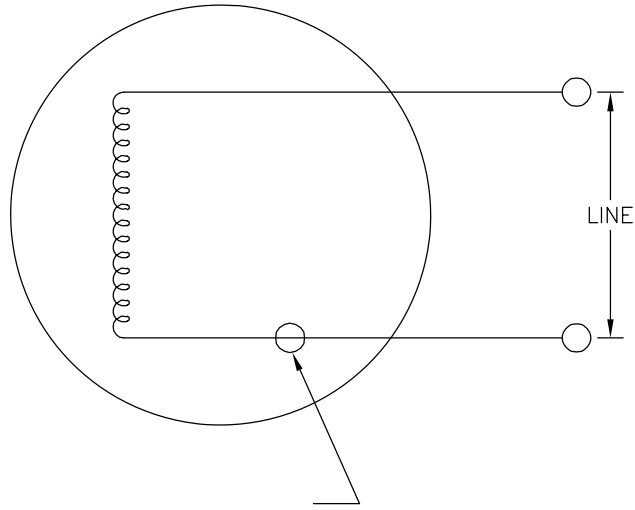
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版本	ECO	编制	日期	批准	日期
T	ECO-0018824	J.HESS	04-15-2011	J.HESS	04-15-2011



形位公差
□ 平面度
— 直线度
∠ 倾斜度
⊥ 垂直度
// 平行度
○ 圆度
⊘ 圆柱度
∩ 内圆角
△ 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 ±0.1 ±0.02 ±0.005 ±0.0005
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 []

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
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ASME Y14.5M 1994		

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

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