

# PRODUCT INFORMATION PACKET



Model No: CK1102  
Catalog No: CK1102  
Pool Pump Motor, 1 HP, 1 Ph, 60 Hz, 230/115 V, 3600 RPM, 56C Frame, ODP



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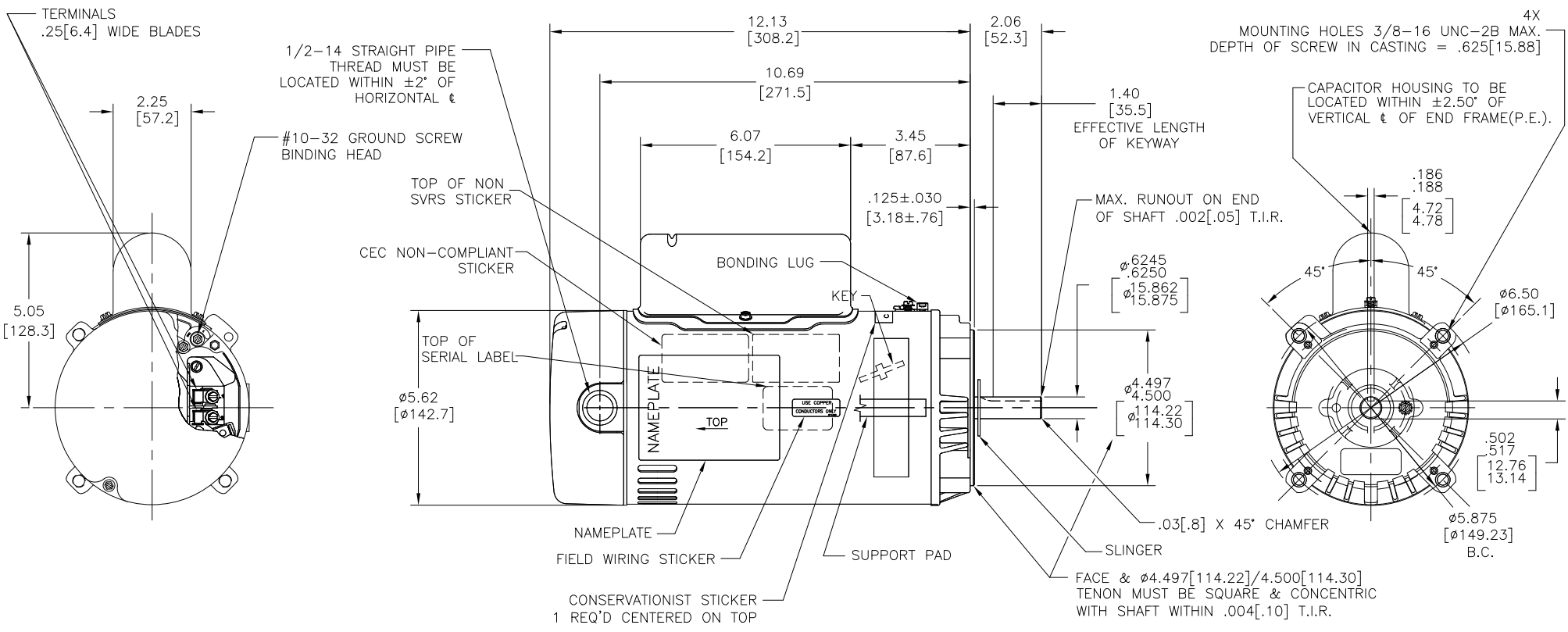
**Nameplate Specifications**

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/115 V
Current	6.8/13.6 A	Speed	3450 rpm
Service Factor	1.4	Phase	1
Duty	Continuous	Insulation Class	B
Frame	56C	Enclosure	Open Drip Proof
Thermal Protection	Automatic	Ambient Temperature	50 °C
UL	Recognized	CSA	Y
Number of Speeds	1		

**Technical Specifications**

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Counterclockwise Pump End
Mounting	Round	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	5/8 Keyed
Overall Length	14.19 in	Frame Length	8.75 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Connection Drawing	627103-001	Outline Drawing	CK1102-S01

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NAMEPLATE DATA	EXTERNAL CONNECTION DIAGRAM	NOTES
MODEL: K48L2N100 CUST PN: CK1102 HP: 1 SF: 1.4 ROT: CCWPE RPM: 3450 TYPE: K CODE: K FORM: FRAME: 56C VOLTS: 230/115 AMPS: MAX AMPS: 6.8/13.6 SF AMPS: - PH: 1 HZ: 60 INS: B AMB: 50°C DUTY: CONT. ENCLOSURE: ODP THERMALLY PROT CET50ABN		NOTES: (1) FINISH PAINT TO BE SATIN-BLACK. (2) 7/16" WRENCH FLATS ON SHAFT- FOR ACCESS TO THIS WRENCH FLAT REMOVE END COVER. (3) STAINLESS STEEL SHAFT EXT. (4) LIMITS ON AMPLITUDE OF VIBRATION MEASURED AT BEARING HOUSING=.001. (5) CONNECTED FOR HIGH VOLTAGE, QUICK VOLTAGE CHANGE PLUG INCLUDED ON THE TERMINAL BOARD.

PERFORMANCE CURVE	APPROVED SAMPLE		
K48L2W2			
UL COMPONENT	CSA		
FILE#	CCN#	FILE#	GUIDE#
E25022	XEWR2	LR43341	4211-01
CUSTOMER	DISTRIBUTION SERVICES		

DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY:	
F	GAUTHAM	08/25/2022	DEC. INCH ANGLE	B. BREISCH	
ECO	APPROVED BY	DATE	.X ±0.1 [±2.5] ±0.5	DATE:	03-04-2003
ECR-0212380	GAUTHAM	08/25/2022	.XX ±0.02 [±0.51]	APPROVED BY:	W. BAILEY
ECO DESCRIPTION	SEE ECO		.XXX ±0.005 [±0.127]	DATE:	03-27-2003
			.XXXX ±0.0005 [±0.0127]	REFERENCE	
			REMOVE BURRS & BREAK SHARP EDGES .003/015 [0.076/3.81]	MATERIAL	
			CORNER FILLETS .02 [51]	PROCESS/FINISH	
			MACHINED SURFACES 12/ mm 32/ INCH	SIZE	DWG NO
			mm SHOWN IN [BRACKETS]	C	CK1102
				THIRD ANGLE PROJECTION	SHEET
					1

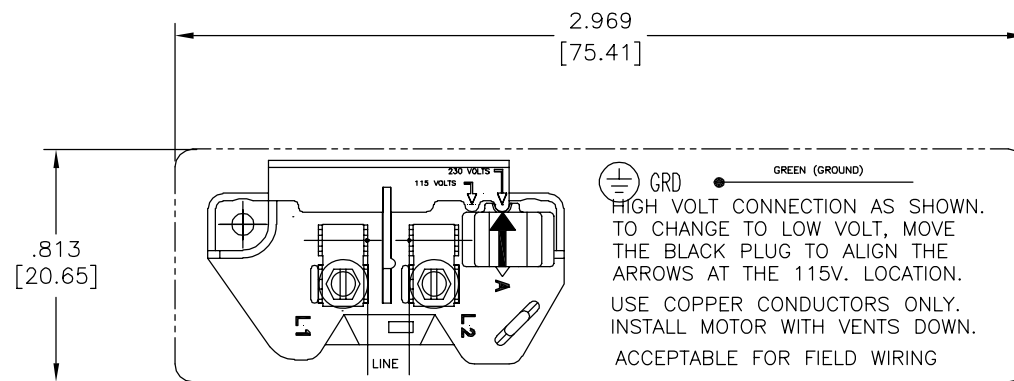
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REV	ECO	REV BY	DATE	APPD	DATE
A	22828	SH	11-08-2011	RH	11-08-2011

DUAL VOLTAGE  
627103-001

NOTE:

1. FOR USE WITH 616231 NAME PLATE BLANK.
2. - - - - - INDICATES DIMENSIONAL LIMITS.
3. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

<b>GEOMETRIC CHARACTERISTICS &amp; SYMBOLS</b> □ 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 ±.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: SH	11-08-2011	<b>ELECTRICAL PRODUCTS COMPANY</b> A DIVISION OF A. O. SMITH CORPORATION	
		APPD: RH	11-08-2011		DESCRIPTION
		THIRD ANGLE PROJECTION	EDS DATE 01-21-2007 FORMAT REV F	SIZE C	DWG NO 627103-001
		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

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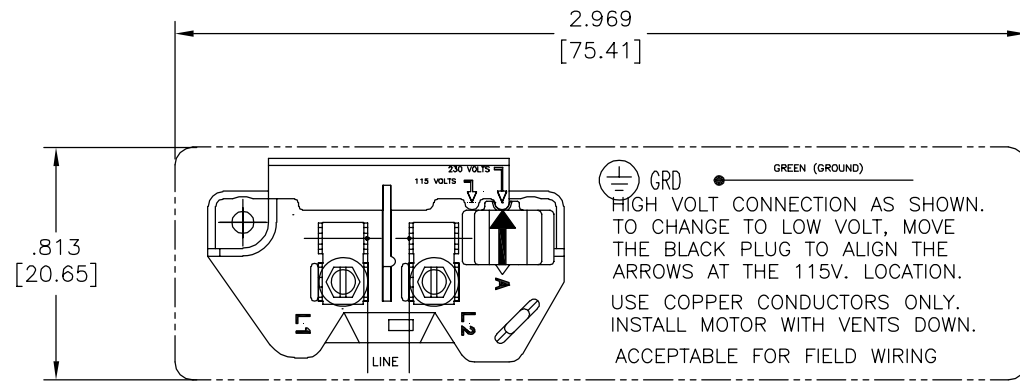
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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
A	22828	SH	11-08-2011	RH	11-08-2011

627103-001

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 ±.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:	SH	11-08-2011
APROBADO POR:	RH	11-08-2011
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 01-21-2007 REV. FORMATO: F
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**ACSmith** **ELECTRICAL PRODUCTS COMPANY**  
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DESCRIPCION: CONNECTION DIAGRAM

TAMAÑO: C NUMERO DE DIBUJO: 627103-001

ESCALA: NONE HOJA: 1

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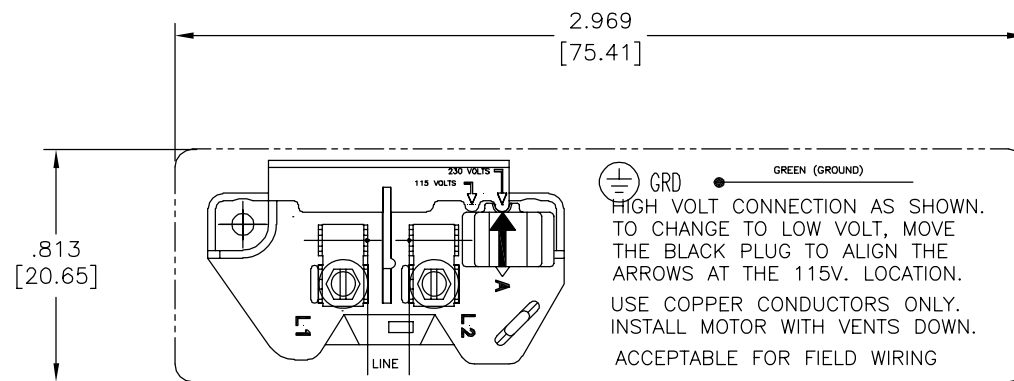
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版本	ECO	编制	日期	批准	日期
A	22828	SH	11-08-2011	RH	11-08-2011

627103-001

技术要求:

1. 用616231铭牌底版
2. — — — — 表示尺寸限制
3. 必须有清晰的压痕

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 ±0.1 ±0.02 ±0.005 ±0.0005
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:	SH	11-08-2011
批准:	RH	11-08-2011
第三角投影		图纸格式发布日期 01-21-2007 图纸格式版本 F
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ASME Y14.5M 1994		

		<b>ELECTRICAL PRODUCTS COMPANY</b> <small>A DIVISION OF A. O. SMITH CORPORATION</small>	
名称 CONNECTION DIAGRAM			
图幅	C	图号	627103-001
比例	NONE	页号	1

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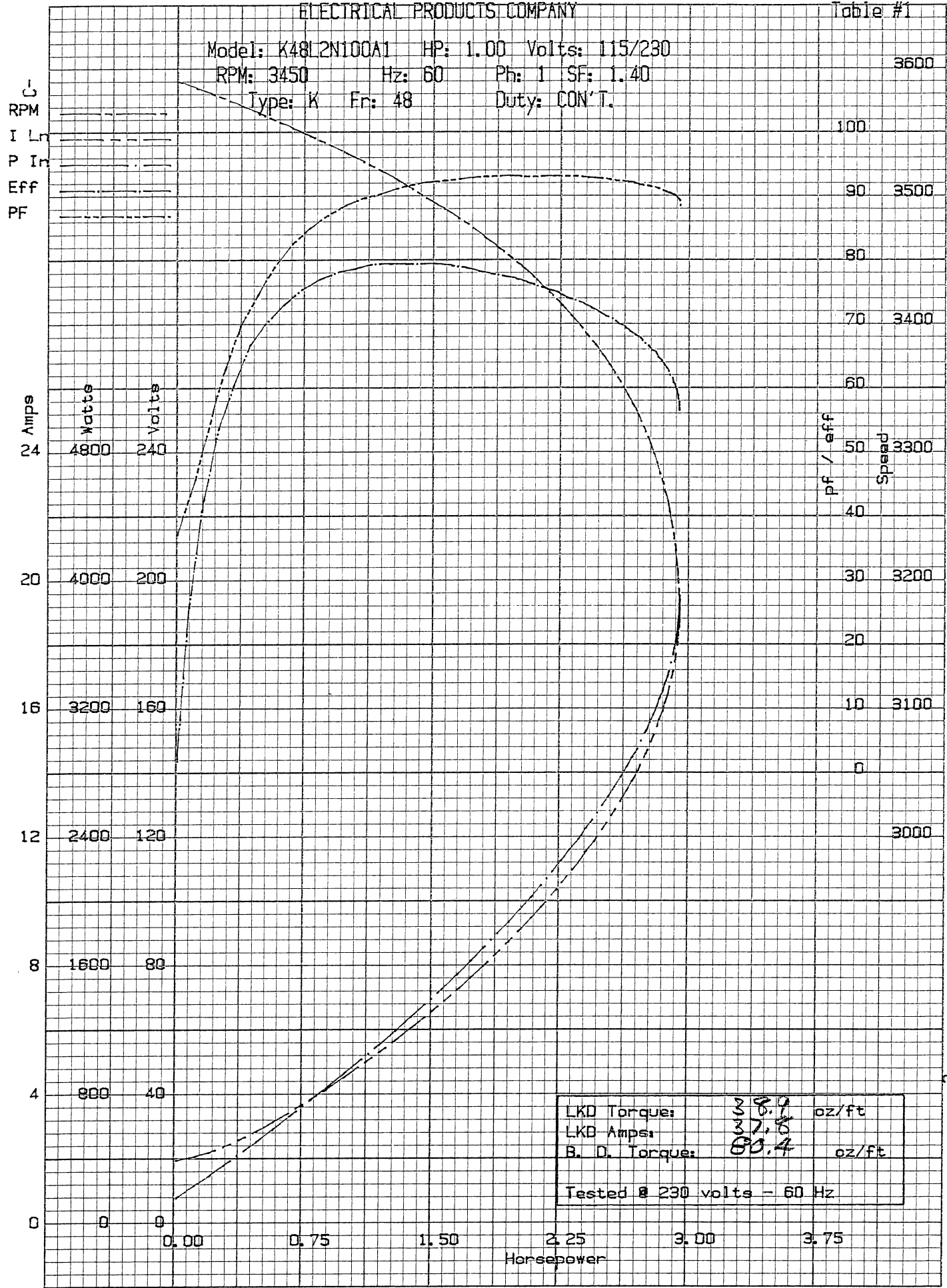
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Table #1

Model: K48L2N100A1 HP: 1.00 Volts: 115/230  
 RPM: 3450 Hz: 60 Ph: 1 SF: 1.40  
 Type: K Fr: 48 Duty: CON'T.

No. XY-1001 - SP 3

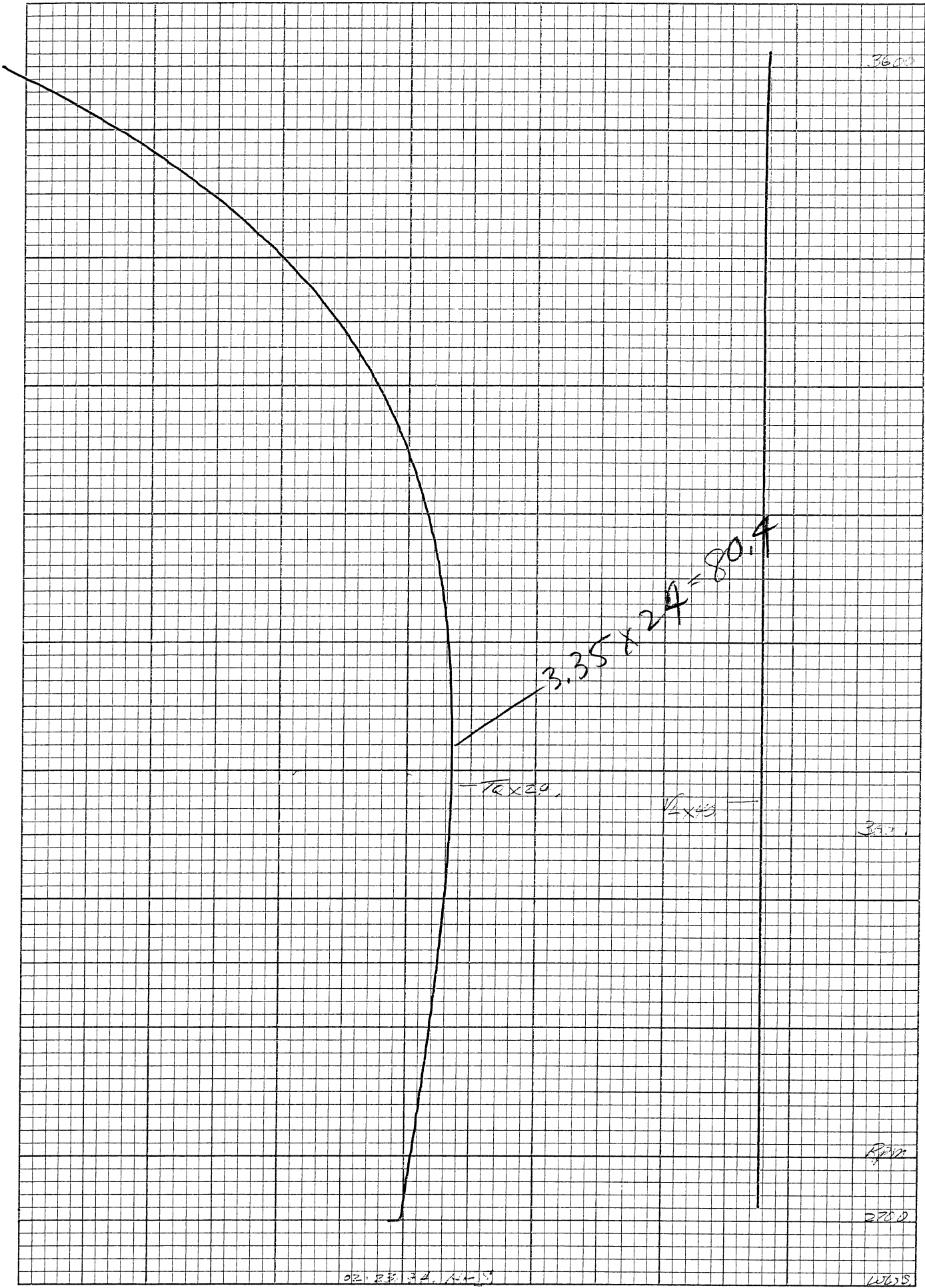
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LKD Torque: 38.9 oz/ft  
 LKD Amps: 37.5  
 B. D. Torque: 60.4 oz/ft  
 Tested @ 230 volts - 60 Hz

NO. XY-1001- SP 3

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Table #1

HP: 1.00 Volts: 115/230

PH: 1 Hz: 60

RPM: 3450

FR: 48

Tested at 230 V - 60 Hz

Speed (rpm)

3600  
3200  
2800  
2400  
2000  
1600  
1200  
800  
400  
0

P In  
I Ln  
V C  
V Ln  
Torq

Model: K48L2N100A1  
Stator:  
Rotor:

MFD RUN CAP.  
MFD START CAP.

1.62 x 24 = 38.88

3.78 x 10 = 37.8

0.0 10 20 30 40 50  
0.0 100 200 300 400 500  
24.0 48.0 72.0 96.0  
KWatts  
Amps  
Cap/ Ph Volts  
Torque (Oz-Ft)

No. XY-1001-SP 3

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