

PRODUCT INFORMATION PACKET



Model No: B2984

Catalog No: B2984

Pool Pump Motor, 2.0/.25 HP, 1 Ph, 60 Hz, 230 V, 3600 RPM, Y56Y Frame, ODP



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**Nameplate Specifications**

Output HP	2.0/.25 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230 V
Current	SF 11.0/1.8 A	Speed	3450/1725 rpm
Service Factor	1.3	Phase	1
Duty	Continuous	Insulation Class	F
Frame	Y56Y	Enclosure	Open Drip Proof
Thermal Protection	Thermally Protected	Ambient Temperature	50 °C
UL	Recognized	CSA	Y

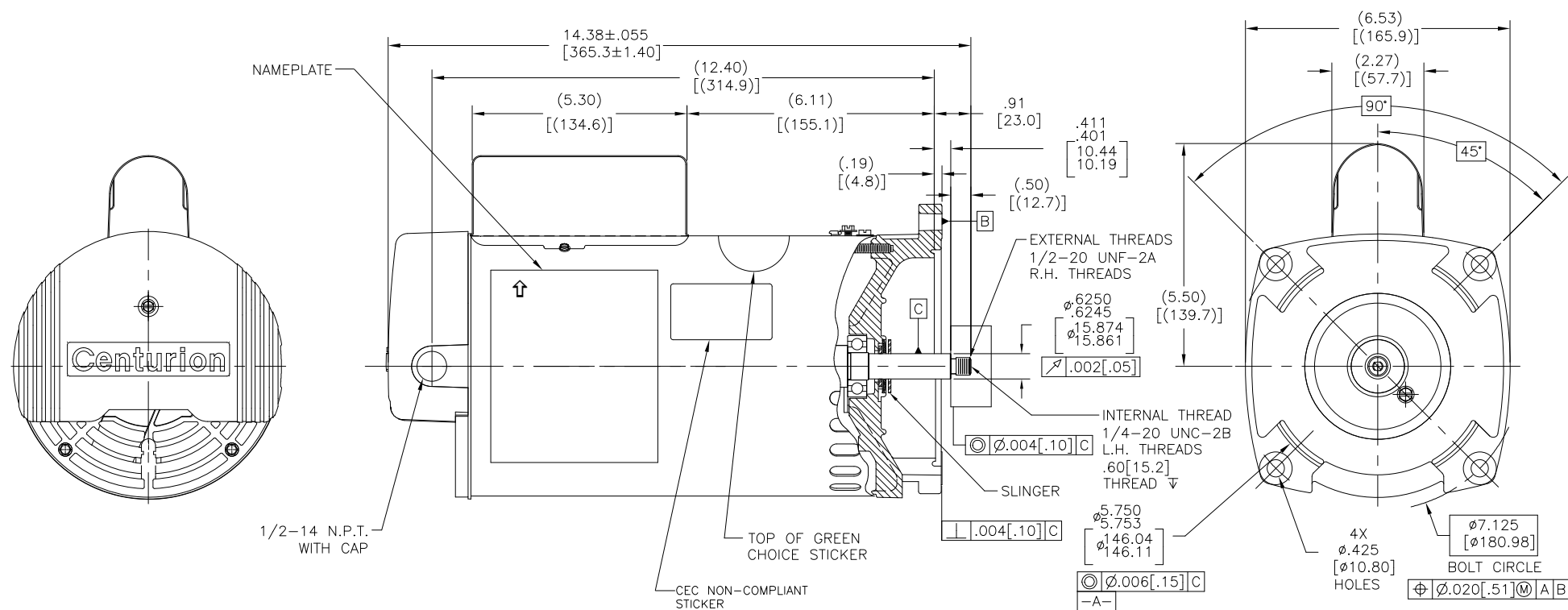
Technical Specifications

Electrical Type	Psc Low Speed, Cap Start/Cap Run High Speed	Poles	2/4
Rotation	Counterclockwise Pump End	Mounting	Square Flange
Motor Orientation	Horizontal	Drive End Bearing	BALL
Opp Drive End Bearing	BALL	Frame Material	Rolled Steel
Shaft Type	1/2 THREADS	Overall Length	14.40 in
Frame Length	10.00 in	Shaft Diameter	0.625 in
Shaft Extension	0.91 in		
Outline Drawing	B2984-S01	Connection Drawing	D0000026-001

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D

C



B

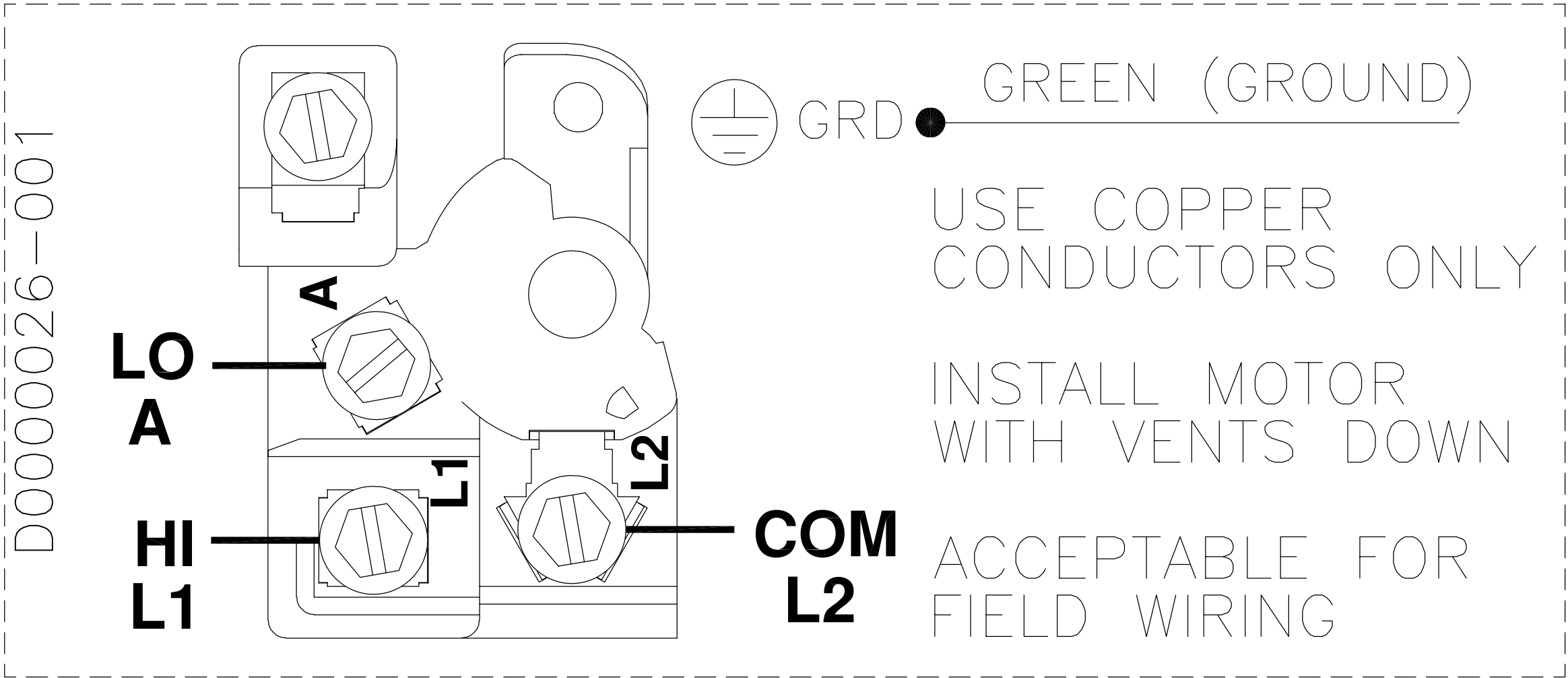
A

NAMEPLATE DATA	EXTERNAL CONNECTION DIAGRAM	NOTES
MODEL: 196445 CUST PN: B2984 HP: 2.0/.25 SF: 1.30 ROT: CCWPE RPM: 3450/1725 TYPE: CXCP CODE: G FORM: FRAME: Y56Y VOLTS: 230 AMPS: SF 11.0/1.8 MAX AMPS: SF AMPS: PH: 1 HZ: 60 INS: F AMB: 50°C DUTY: CONT ENCLOSURE: ODP THERMALLY PROTECTED	USE COPPER CONDUCTORS ONLY INSTALL MOTOR WITH VENTS DOWN ACCEPTABLE FOR FIELD WIRING	- FOR THREADED SHAFT EXT. ECCENTRICITY OF THREADED PORTION OF SHAFT IS HELD WITHIN $.004$ [.10] TOTAL GAGE READING WITH THE INDICATOR ON $.0$ D. OF GROUND RING GAGE AS SHOWN. THE GAGE BEING STATIONARY WITH RESPECT TO THE ROTOR. - END PLAY NOT TO EXCEED $.010$ [.25] MEASURED WITH NO THRUST. - ALL DIMENSIONS SHOWN IN PARENTHESIS ARE REFERENCE DIMENSIONS. - FINISH PAINT TO BE BLACK. 2.60 SF HP - CTQ REQUIREMENT SEE EP000105-008 - RoHS & REACH REQUIREMENT SEE EP000014.

PERFORMANCE CURVE		APPROVED SAMPLE	
0116755		0701617	
UL COMPONENT		CSA	
FILE#	CCN#	FILE#	GUIDE#
E44549	PRGY2	LR4642	4211-01
CUSTOMER	DISTRIBUTION		

CRITICAL TO QUALITY CHARACTERISTICS (CTQs)	DRAWING REVISION R ECO ECR-0216843 ECO DESCRIPTION SEE ECR	REVISION BY HAIXIA ZHANG TRISTIA ZHAO	DATE 04-09-2022 04-09-2022	TOLERANCES UNLESS OTHERWISE SPECIFIED DEC. INCH mm ANGLE X ± 0.1 [± 3] .XX ± 0.02 [± 0.5] .XXX ± 0.005 [± 0.13] XXX ± 0.0005 [± 0.013] REMOVE BURRS & BREAK SHARP EDGES $.003$ /.015 [$.08$ /.38] CORNER FILLETS $.02$ [$.5$] MACHINED SURFACES $.125$ mm mm SHOWN IN [BRACKETS]	DRAWN BY: D.MUNOZ DATE: 08-22-2008 APPROVED BY: M.OVERHOLSER DATE: 08-22-2008 REFERENCE THIRD ANGLE PROJECTION	Regal Beloit America, Inc. MODEL-CFHP-56FR OUTLINE MATERIAL PROCESS/FINISH SIZE DWG NO B2984 SHEET 1
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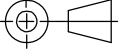
REV	ECO	REV BY	DATE	APPD	DATE
D	0013035	VMS	03-18-2010	JOSUE	03-18-2010



(TWO SPEED)

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 $\begin{matrix} X & XX & XXX & XXXX \\ \pm .1 & \pm .02 & \pm .005 & \pm .0005 \end{matrix}$
mm $\begin{matrix} \pm .5 & \pm 0.13 & \pm 0.013 \end{matrix}$
ANG. $\pm .50$ 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 $\sqrt{125}$ mm $\sqrt{3.2}$
METRIC DIMS. SHOWN IN [BRACKETS]

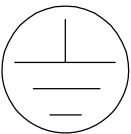
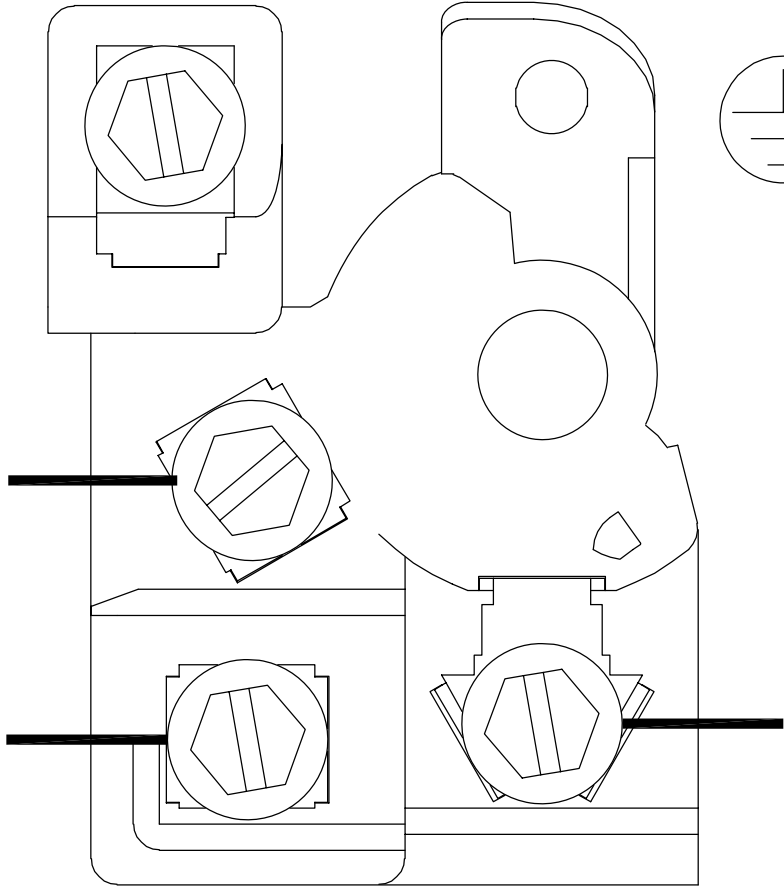
DR BY: Josue 07-15-2008
APPD: M. OVERHOLSER 07-15-2008
THIRD ANGLE PROJECTION  EDS DATE 02-22-2008
FORMAT REV F
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ELECTRICAL PRODUCTS COMPANY
A DIVISION OF A. O. SMITH CORPORATION

DESCRIPTION
CONN DIAGRAM - NAMEPLATE
SIZE A DWG NO D0000026-001
SCALE NONE SHEET 1

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
D	0013035	VMS	03-18-2010	JOSUE	03-18-2010



GRD

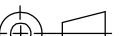
GREEN (GROUND)

USE COPPER
CONDUCTORS ONLY

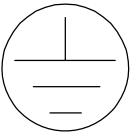
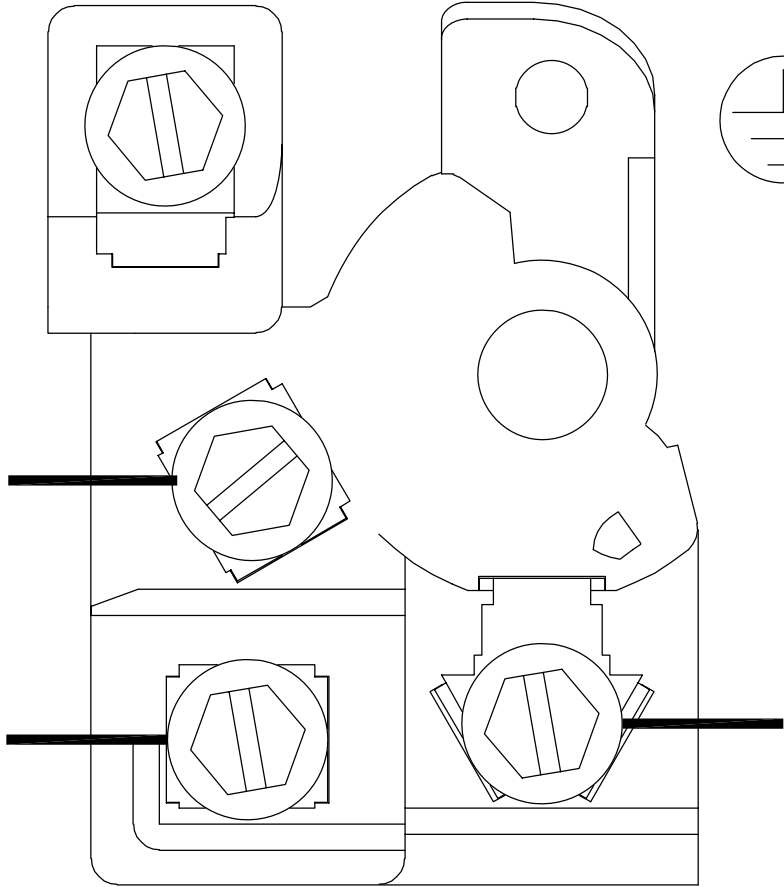
INSTALL MOTOR
WITH VENTS DOWN

ACCEPTABLE FOR
FIELD WIRING

(DOS VELOCIDADES)

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: Josue	07-15-2008	 ELECTRICAL PRODUCTS COMPANY Innovation has a name. A DIVISION OF A. O. SMITH CORPORATION		
		APROBADO POR: M. OVERHOLSER	07-15-2008	DESCRIPCION: CONN DIAGRAM — NAMEPLATE		
		TERCER ANGULO DE PROYECCION	 FECHA EDS: 02-22-2008 REV. FORMATO: F			
		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		TAMAÑO: A	NUMERO DE DIBUJO: D0000026-001	
				ESCALA: NONE		HOJA: 1

版本	ECO	编制	日期	批准	日期
D	0013035	VMS	03-18-2010	JOSUE	03-18-2010



GRD



GREEN (GROUND)

USE COPPER
CONDUCTORS ONLY

INSTALL MOTOR
WITH VENTS DOWN

ACCEPTABLE FOR
FIELD WIRING

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:	Josue	07-15-2008
批准:	M. OVERHOLSER	07-15-2008
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		



**ELECTRICAL PRODUCTS
COMPANY**
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名称

CONN DIAGRAM - NAMEPLATE

图幅

A

图号

D0000026-001

比例

NONE

页号

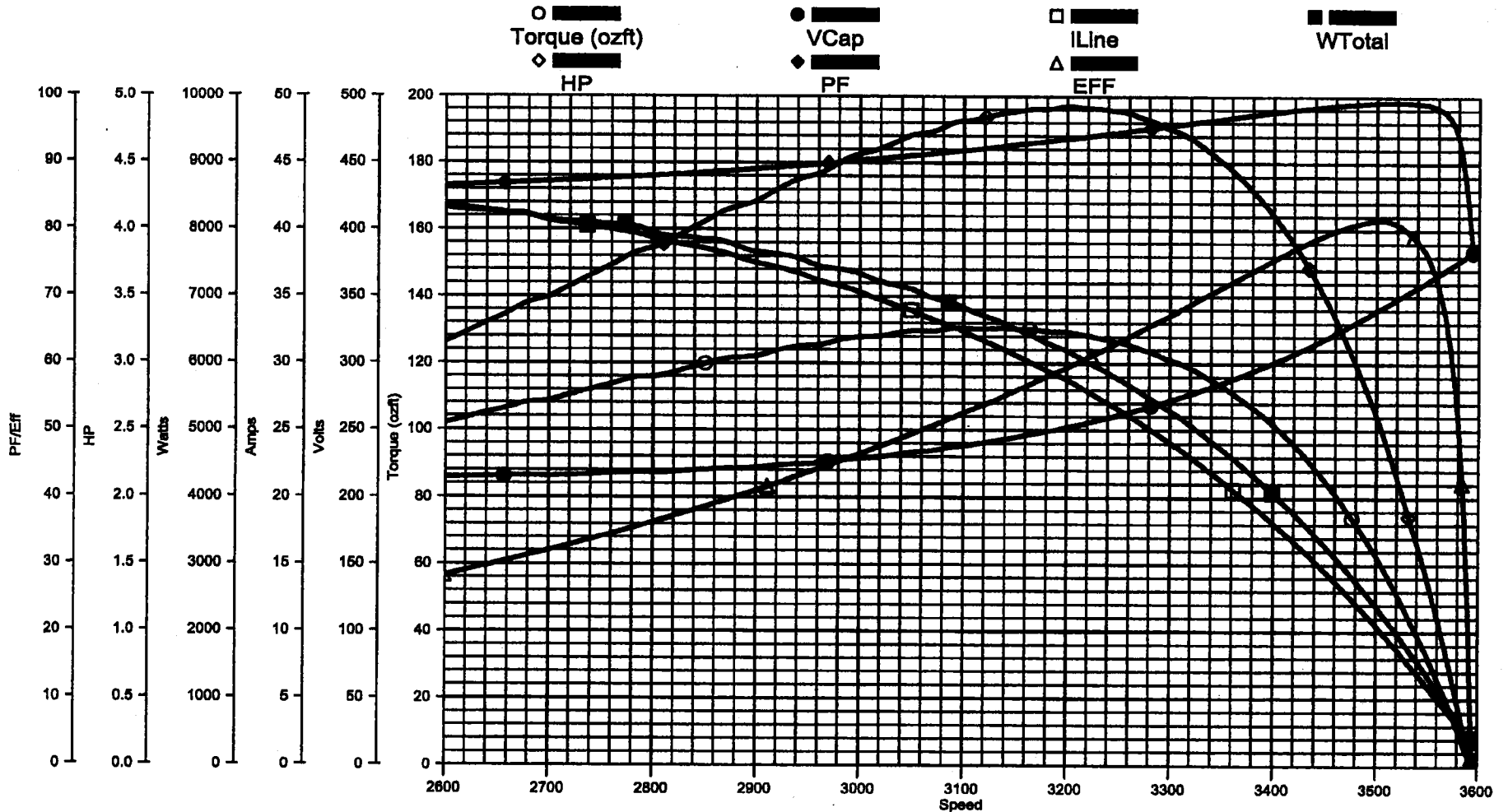
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AO Smith

B2242
F56AA56

Performance Test Project: CSR-0000312 (High Speed)

Friday, September 25, 2009 03:27 AM



TRACKING #: 10077117
SBU: Pump
ENGINEER: DWAYNE FOX
TECHNICIAN: SCOTT BARNETT
BENCH: 2
TORQUE CELL: 500-1 inlb
NP RPM: 3450
SPEEDS: 2
MOTOR #: 1
TYPE: CXCP

CUSTOMER:
MODEL:
FRAME: Y56Y
PHASES: 1
HP: 2.00
VOLTS: 230.0
HERTZ: 60
START CAP: 189.00
RUN CAP: 35.00
COMMENT3:

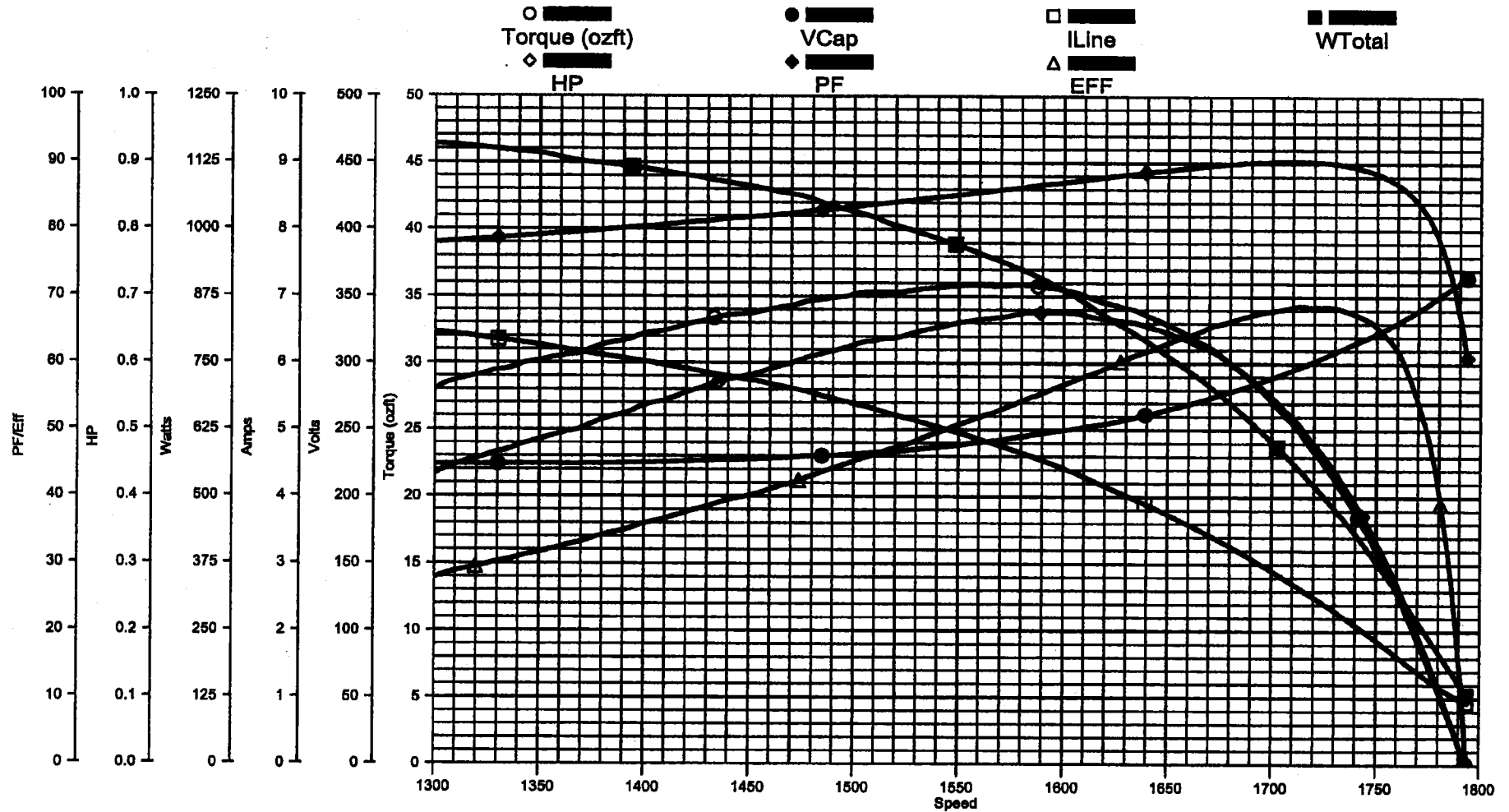
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BDT: 130.44
MT: 130.60
SF: 62.40
LRT: 0.00
LRA: 0.00
PUT: 0.00
COMMENT1:
COMMENT2:
COMMENT4:

AO Smith

B2242
F56AA56

Performance Test Project: CSR-0000312 (Low Speed)

Friday, September 25, 2009 03:52 AM



TRACKING #: 10077117
SBU: Pump
ENGINEER: DWAYNE FOX
TECHNICIAN: SCOTT BARNETT
BENCH: 2
TORQUE CELL: 500-1 inlb
NP RPM: 1725
SPEEDS: 2
MOTOR #: 1
TYPE: CXCP

CUSTOMER:
MODEL:
FRAME: Y56Y
PHASES: 1
HP: 0.25
VOLTS: 230.0
HERTZ: 60
START CAP: 189.00
RUN CAP: 10.00
COMMENT3:

DESCRIPTION: OFFSET
BDT: 35.88
MT: 35.88
SF: 15.60
LRT: 0.00
LRA: 0.00
PUT: 0.00
COMMENT1:
COMMENT2:
COMMENT4: