

# PRODUCT INFORMATION PACKET



Model No: B121  
Catalog No: B121  
Pool Pump Motor, 3/4 HP, 1 Ph, 60 Hz, 230/115 V, 3600 RPM, S56C Frame, DP



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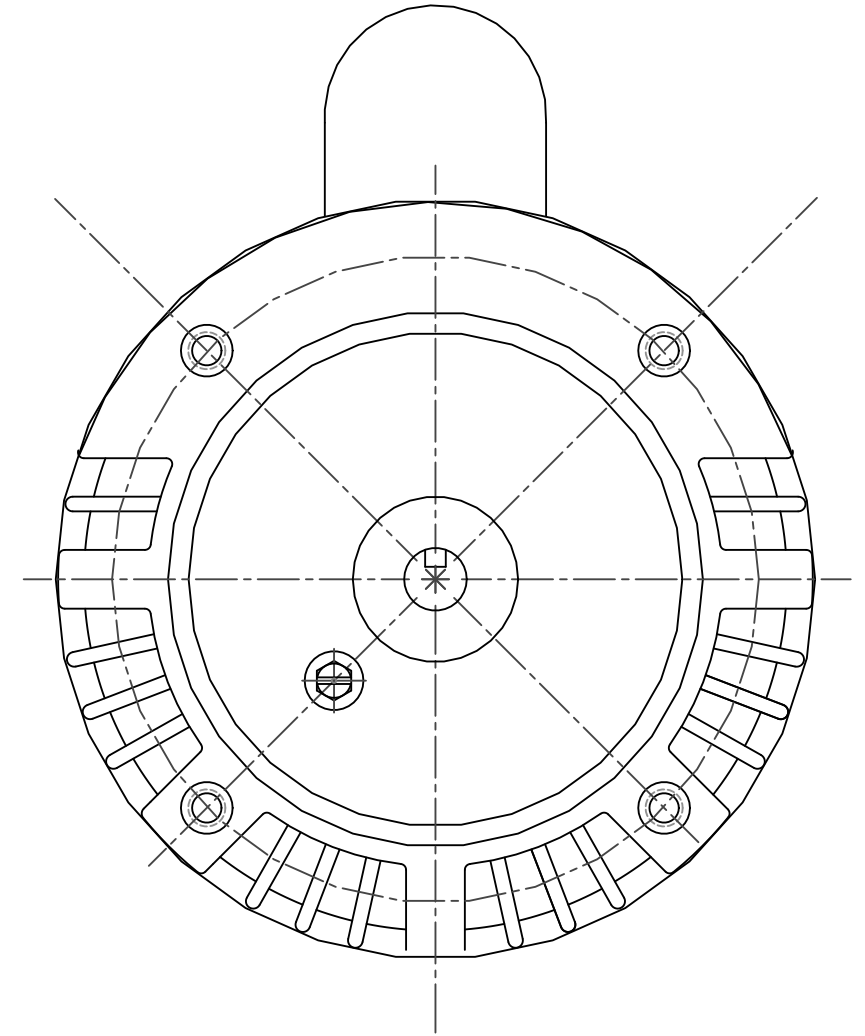
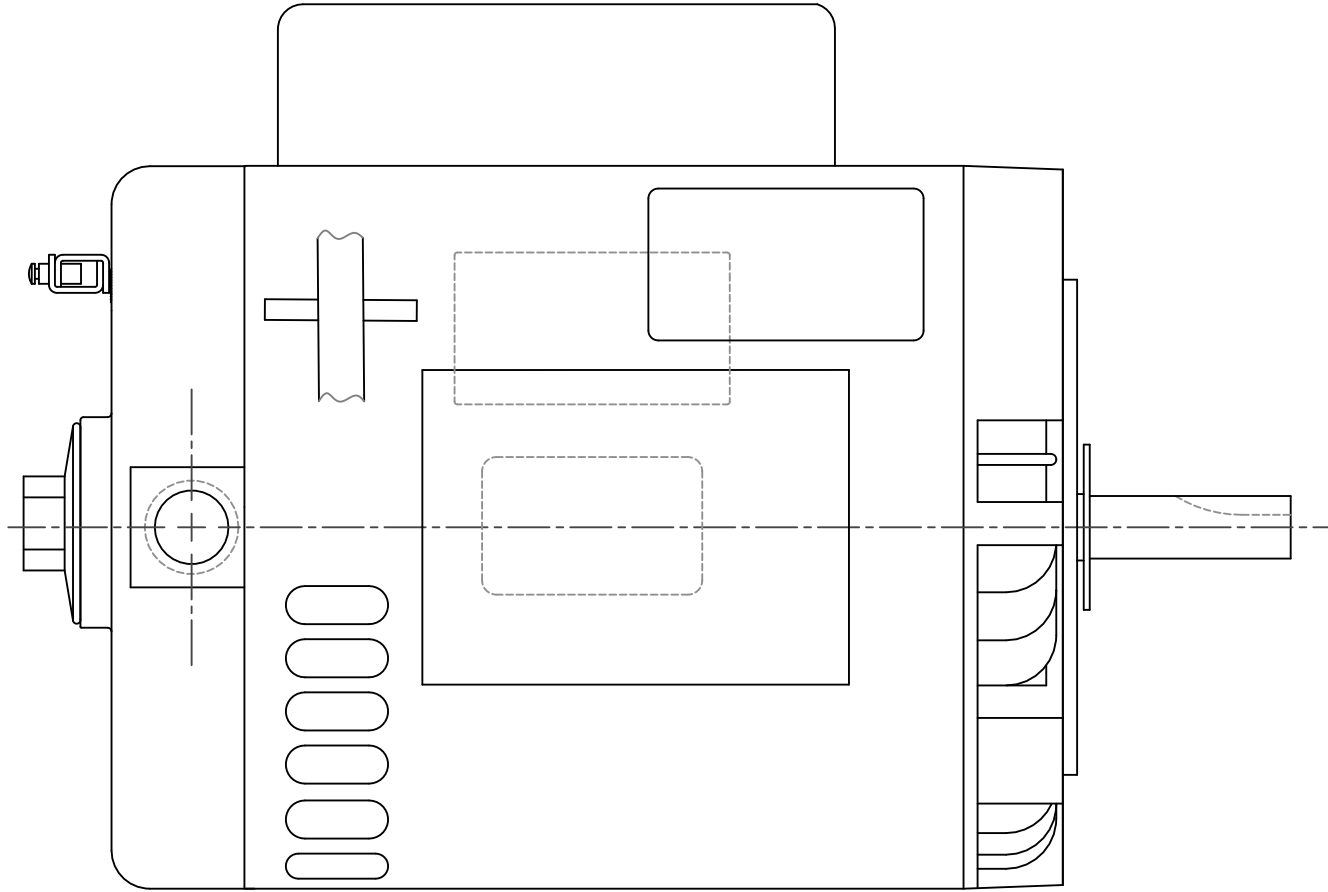
**Nameplate Specifications**

Output HP	<b>3/4 Hp</b>	Output KW	<b>0.56 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/115 V</b>
Current	<b>SF 6.0/12.0 A</b>	Speed	<b>3450 rpm</b>
Service Factor	<b>1.5</b>	Phase	<b>1</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Frame	<b>S56C</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Thermally Protected</b>	Ambient Temperature	<b>50 °C</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Permanent Split Capacitor, Single Or Dual Voltage</b>	Poles	<b>2</b>
Rotation	<b>Counterclockwise Pump End</b>	Mounting	<b>Round</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>5/8 Keyed</b>	Overall Length	<b>11.44 in</b>
Frame Length	<b>6.38 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>2.07 in</b>		
Outline Drawing	<b>B121-S01</b>	Connection Drawing	<b>17536715.PCX</b>

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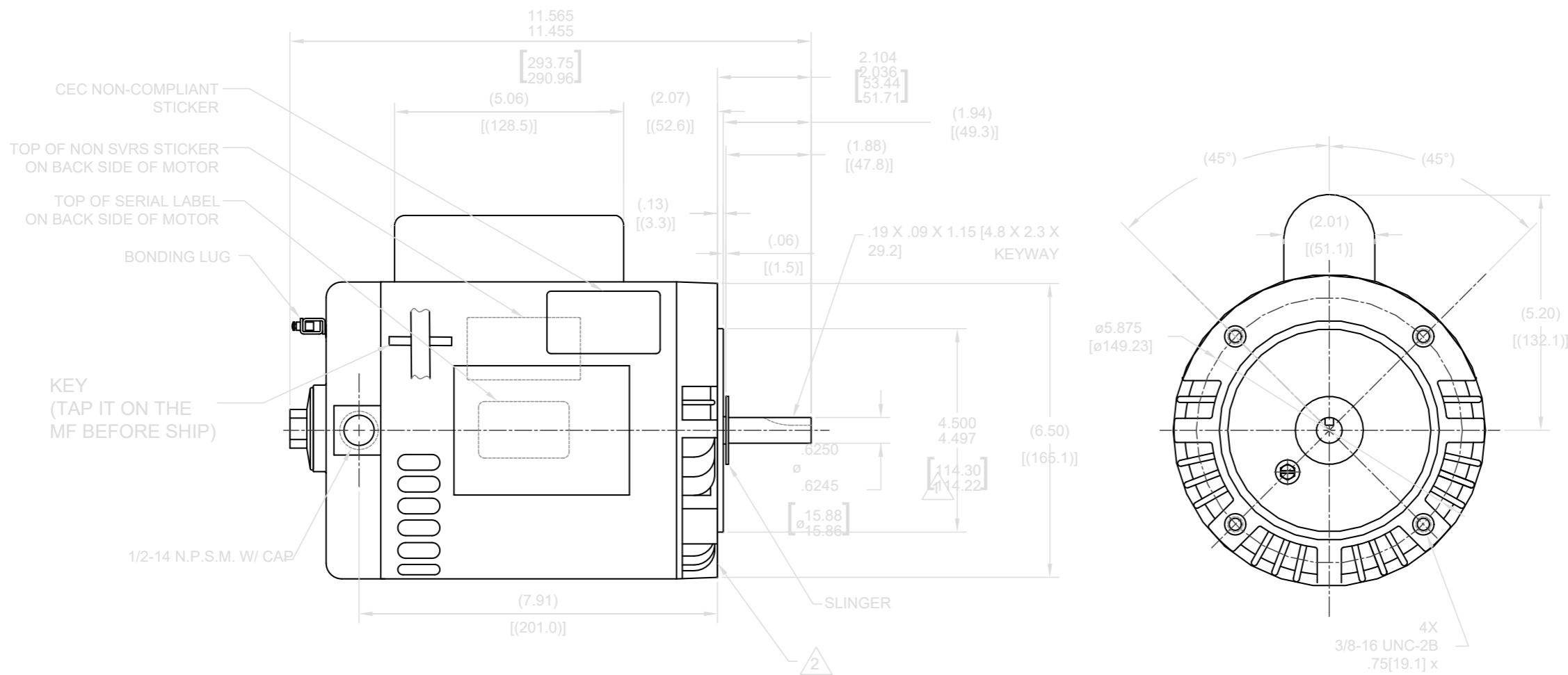
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C

C



B

B

NAMEPLATE DATA	EXTERNAL CONNECTION DIAGRAM	NOTES
MODEL: 164298 CUST PN: B121 HP: 3/4 SF: 1.50 ROT: CCWPE RPM: 3450 TYPE: CX CODE: J FORM: - FRAME: S 56 C VOLTS: 230/115 AMPS: SF 6.0/12.0 MAX AMPS: - SF AMPS: - PH: 1 HZ: 60 INS: B AMB: 50°C DUTY: CONT ENCLOSURE: ODP THERMALLY PROTECTED		<ol style="list-style-type: none"> <li>PILOT DIAMETER IS CONCENTRIC WITH SHAFT CENTERLINE WITHIN .004[.10] T.I.R.</li> <li>FACE OF MOUNTING FLANGE IS PERPENDICULAR TO SHAFT CENTERLINE WITHIN .004[.10] T.I.R.</li> <li>SHAFT RUNOUT NOT TO EXCEED .002[.05] T.I.R</li> <li>END PLAY NOT TO EXCEED .010[.25] MEASURED WITH NO THRUST</li> <li>FINISH PAINT TO BE BLACK</li> </ol>

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A

PERFORMANCE CURVE	APPROVED SAMPLE		
16345111	-		
UL COMPONENT	CSA		
FILE#	CCN#	FILE#	GUIDE#
E14663	XZWR2	LR4642	4211-01
CUSTOMER	DISTRIBUTION		

DRAWING REVISION: E	REVISION BY: D.SURYAWANSHI	DATE: 12/07/2020	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY: KHR	Regal Beloit America, Inc.
ECO: ECO-0195361	APPROVED BY:	DATE:	DEC. INCH mm ANGLE	DATE: 08-30-2005	
SEE ECO			X ±0.1 [±2.5] ±0.5°	APPROVED BY: JMW	DESCRIPTION: MODEL-CFHP-56FR
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			CORNER FILLETS R.02 [.51]	REFERENCE:	PROCESS/FINISH: _____
			MACHINED SURFACES	THIRD ANGLE PROJECTION	SIZE: DWG NO. B121
			INCH mm	PROJECTION:	SHEET 1
			mm SHOWN IN [BRACKETS]		

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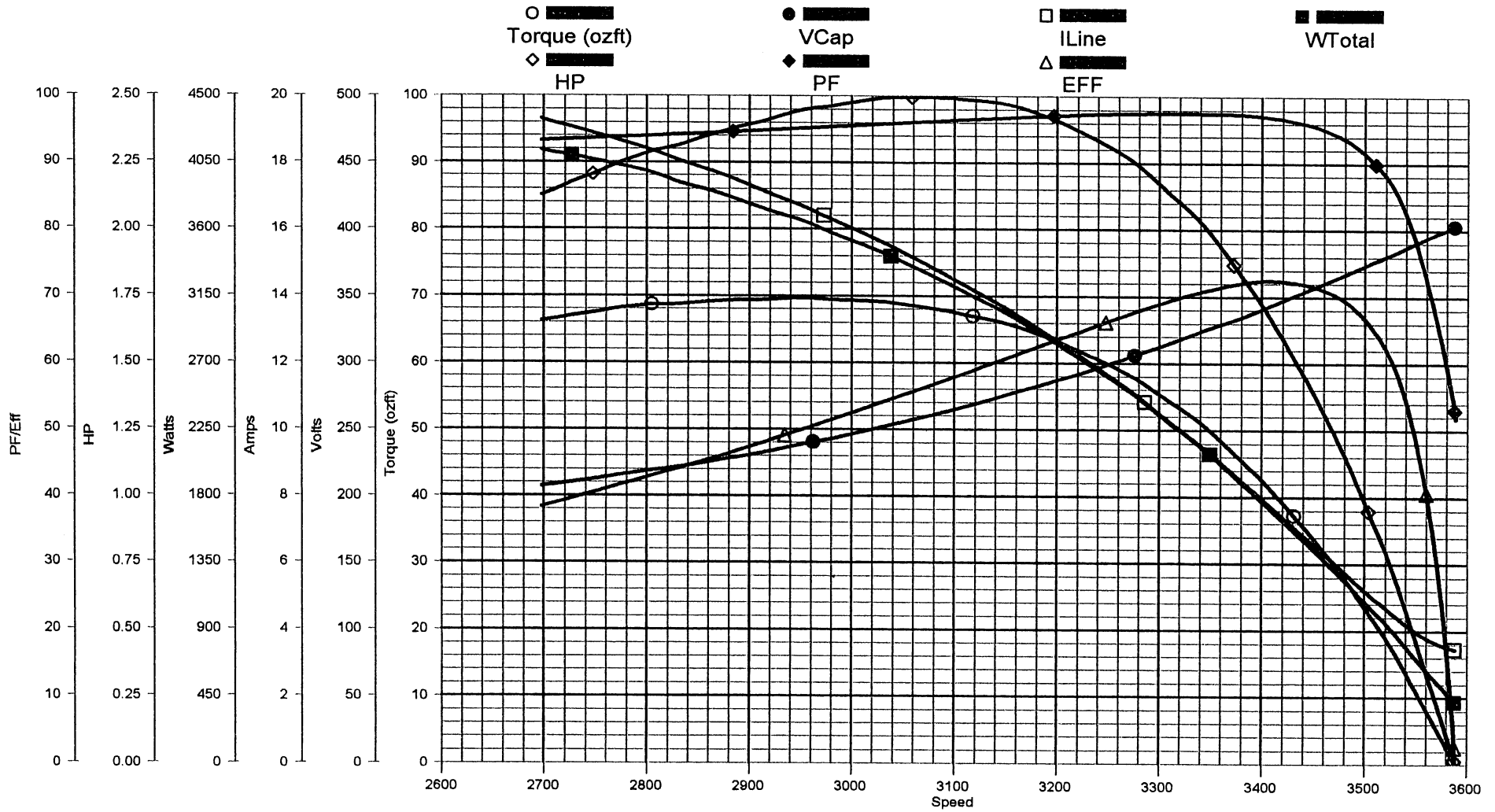
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# AO Smith

Performance Down    Project: 0444227 (High Speed)

Thursday, September 02, 2004 05:50 AM



TRACKING #: 10028999  
 SBU: Pump  
 ENGINEER: DWAYNE FOX  
 TECHNICIAN: DAN  
 BENCH: 2  
 TORQUE CELL: 350 lb-in  
 NP RPM: 3450  
 # SPEEDS: 1  
 MOTOR #: 1  
 TYPE: CX

CUSTOMER:  
 MODEL: 0444227A  
 FRAME: P56Y  
 PHASES: 1  
 HP:  
 VOLTS: 230.0  
 HERTZ: 60  
 START CAP: 0.00  
 RUN CAP: 25.00  
 COMMENT3:

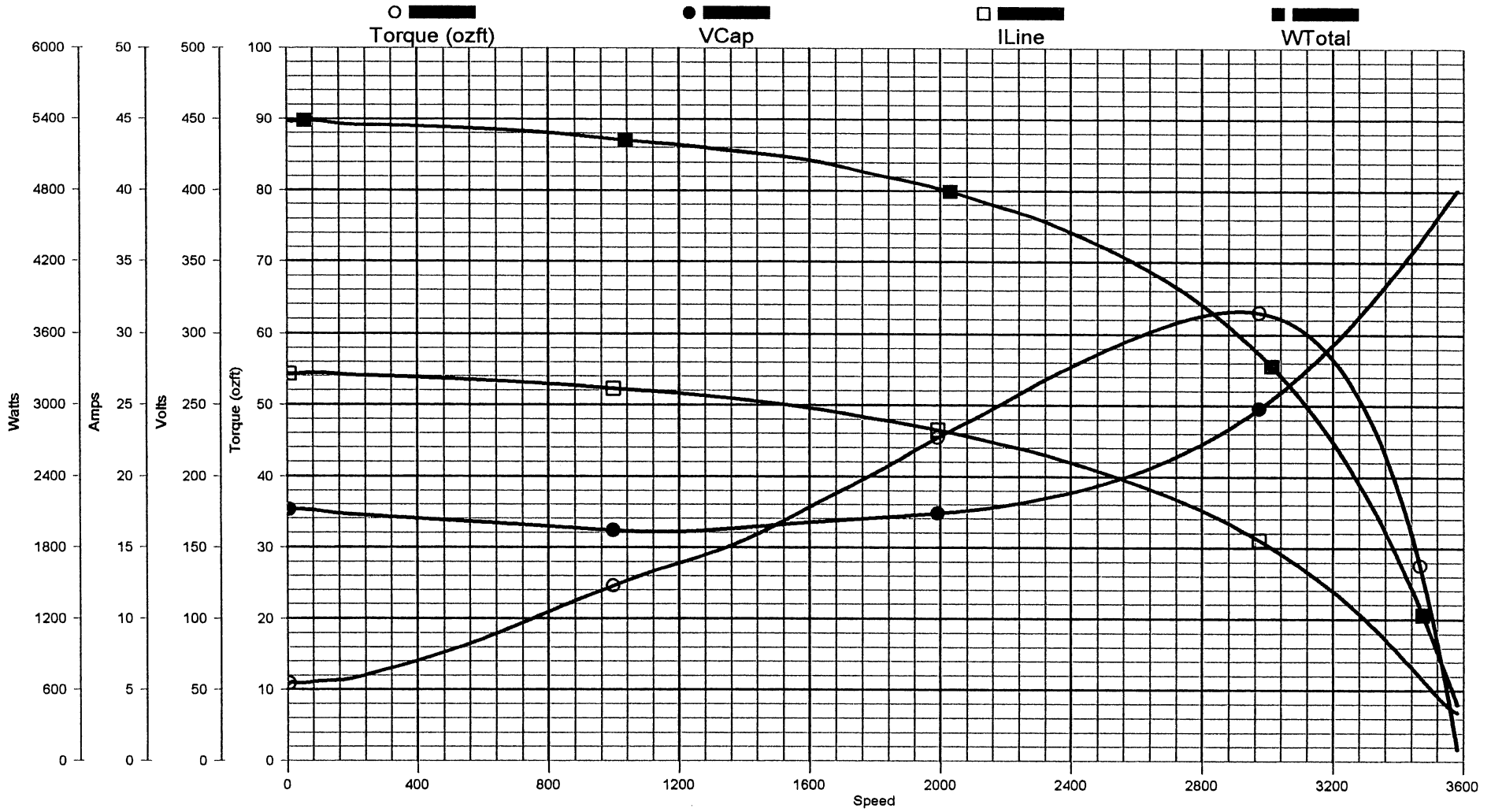
**LOCK AMPS: 27.2A**  
**LOCK TORQUE: 12.0 oz-ft**  
**BREAKDOWN TORQUE: 69.6 oz-ft**

DESCRIPTION: OFFSET  
 BDT: 69.67  
 MT: 69.67  
 SF: 35.10  
 LRT: 0.00  
 LRA: 0.00  
 PUT: 0.00  
 COMMENT1:  
 COMMENT2:  
 COMMENT4:

# AO Smith

Performance Up    Project: 0444227 (High Speed)

Thursday, September 02, 2004 06:03 AM



TRACKING #: 10028999  
 SBU: Pump  
 ENGINEER: DWAYNE FOX  
 TECHNICIAN: DAN  
 BENCH: 2  
 TORQUE CELL: 350 lb-in  
 NP RPM: 3450  
 # SPEEDS: 1  
 MOTOR #: 1  
 TYPE: CX

CUSTOMER:  
 MODEL: 0444227A  
 FRAME: P56Y  
 PHASES: 1  
 HP:  
 VOLTS: 230.0  
 HERTZ: 60  
 START CAP: 0.00  
 RUN CAP: 25.00  
 COMMENT3:

DESCRIPTION: 0-SYNC  
 BDT: 63.15  
 MT: 63.15  
 SF: 35.10  
 LRT: 10.67  
 LRA: 27.14  
 PUT: 10.67  
 COMMENT1:  
 COMMENT2:  
 COMMENT4: