

PRODUCT INFORMATION PACKET



Model No: B976
Catalog No: B976

Pool Pump Motor, 1.5-.20 HP, 1 Ph, 60 Hz, 230 V, 3600 RPM, X56C Frame, DP



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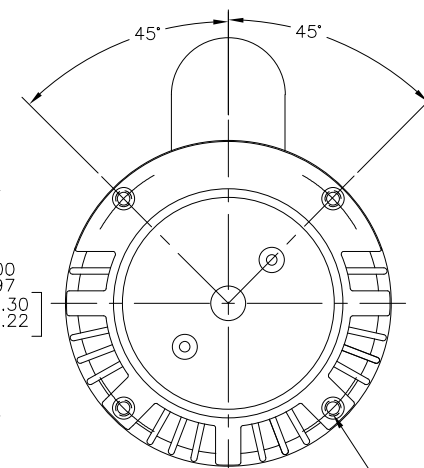
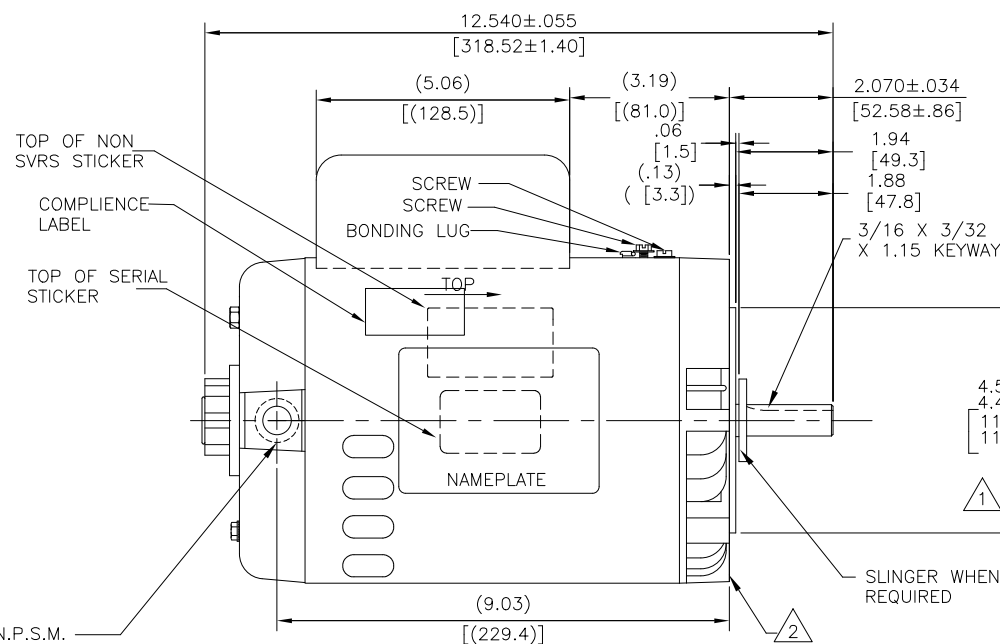
Nameplate Specifications

Output HP	1.5-20 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230 V
Current	SF 8.9/3.1 A	Speed	3450/1725 rpm
Service Factor	1.3	Phase	1
Duty	Continuous	Insulation Class	B
Frame	X56C	Enclosure	Drip Proof
Thermal Protection	Thermally Protected	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
Number of Speeds	2-2-VT		

Technical Specifications

Electrical Type	Permanent Split Capacitor, High Speed; Split Phase, Low Speed	Poles	2/4
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	12.54 in
Frame Length	7.50 in	Shaft Diameter	0.625 in
Shaft Extension	2.07 in		
Connection Drawing	17888703.PCX	Outline Drawing	B976-S01

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NOTES

MOTOR CONNECTION WITHOUT TOGGLE SWITCH

COMMON

1 HIGH SPEED LINE 1

2 LOW SPEED LINE 2

3 OR 4

MOTOR CONNECTION WITH TOGGLE SWITCH

COMMON

YELLOW 1 LINE 1

WHITE 2

3 OR 4

BLACK

1. PILOT DIAMETER IS CONCENTRIC WITH SHAFT CENTERLINE WITHIN .004 T.I.R.
2. FACE OF MOUNTING FLANGE IS PERPENDICULAR TO SHAFT CENTERLINE WITHIN .004 T.I.R.
3. SHAFT RUNOUT NOT TO EXCEED .002 T.I.R.
4. FOR THREADED SHAFT EXT. MATING PARTS SHOULD BE RELIEVED ON THREAD TO CLEAR FILLET.

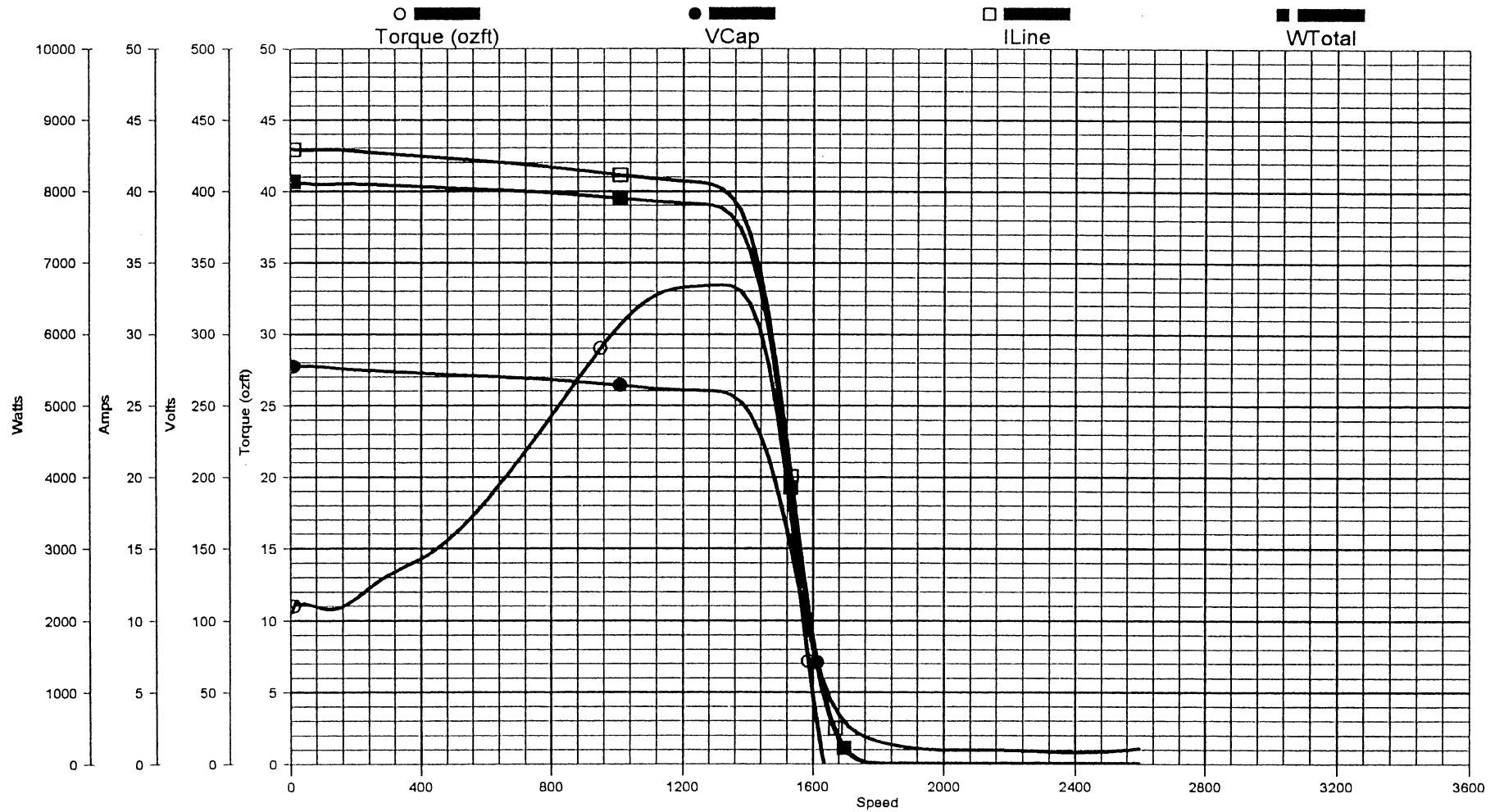
PERFORMANCE CURVE		APPROVED SAMPLE	
16331714			
UL COMPONENT		CSA	
FILE#	CCN#	FILE#	GUIDE#
PENDING	PENDING	LR4642	4211-01
CUSTOMER			

DRAWING REVISION H		REVISION BY (S)HESI		DATE 09/30/2021		TOLERANCES UNLESS OTHERWISE SPECIFIED		DRAWN BY: TOM ZH20	
ECO		APPROVED BY: D.SURYAWANSHI		DATE 09/30/2021		DEC. INCH mm ANGLE		DATE: 07-10-2006	
ECR-0211353						X. +0.1 [-2.5] +0.5°		APPROVED BY: TDT	
ECO DESCRIPTION						XX +0.02 [-0.51]		DATE: 07-11-2006	
UPDATED PER ECR-0211353						XXX +0.005 [-0.127]		REFERENCE	
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mm SHOWN IN BRACKETS						THIRD ANGLE PROJECTION		SIZE DWG NO	
OUTLINE						B976		SHEET	

AO Smith

Performance Up Project: 0444176 (High Speed)

Thursday, September 09, 2004 09:37 PM



TRACKING #: 10028983
 SBU: Pump
 ENGINEER: J WATKINS
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CXPM

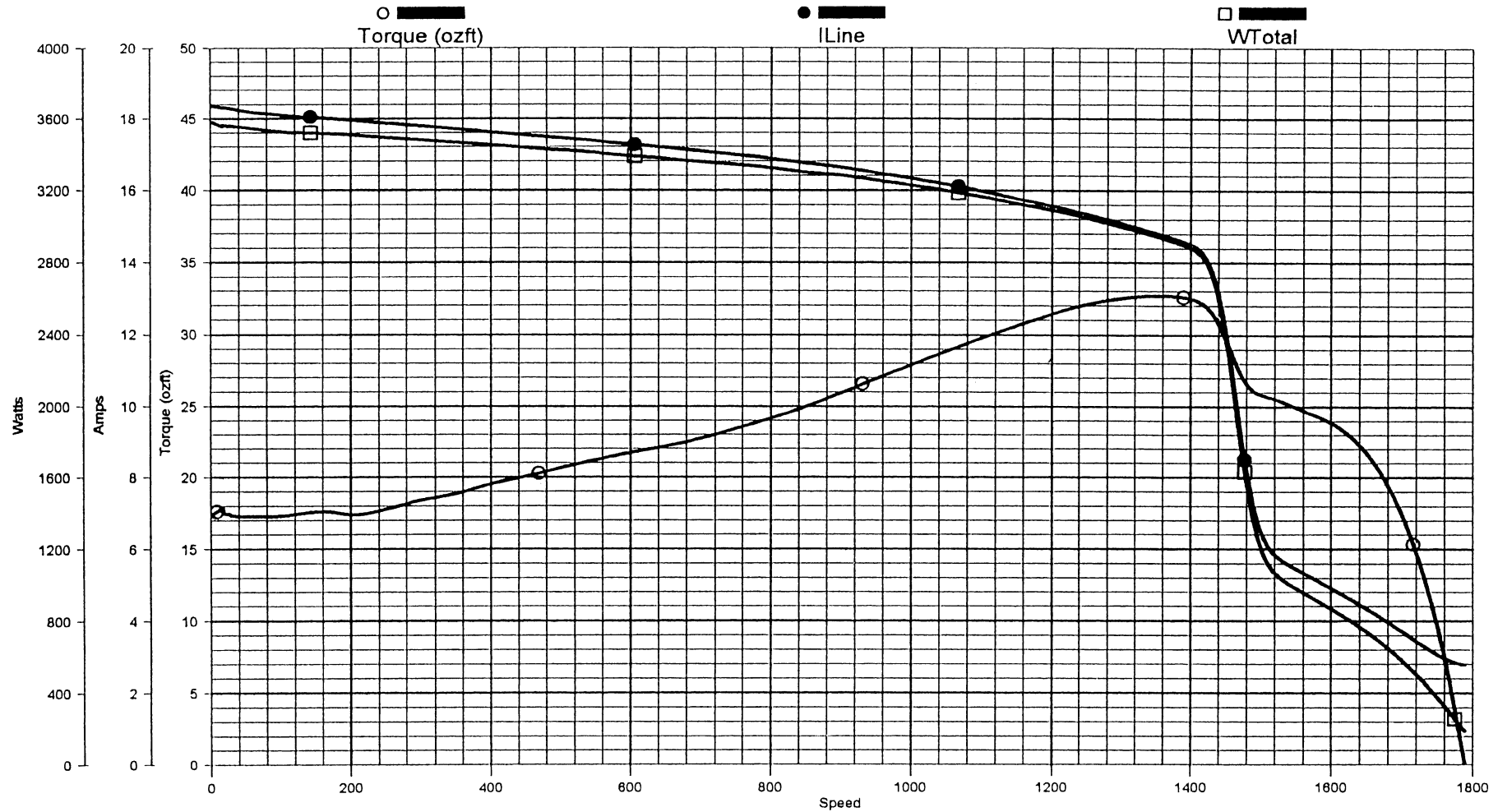
CUSTOMER: A. O. SMITH
 MODEL: 0444176A
 FRAME: Y56J
 PHASES: 1
 HP: 1.50
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 25.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: -5.56
 MT: 33.46
 SF: 0.00
 LRT: 10.57
 LRA: 42.93
 PUT: 10.57
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Up Project: 0444176 (Low Speed)

Thursday, September 09, 2004 09:27 PM



TRACKING #: 10028983
 SBU: Pump
 ENGINEER: J WATKINS
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 1725
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CXPM

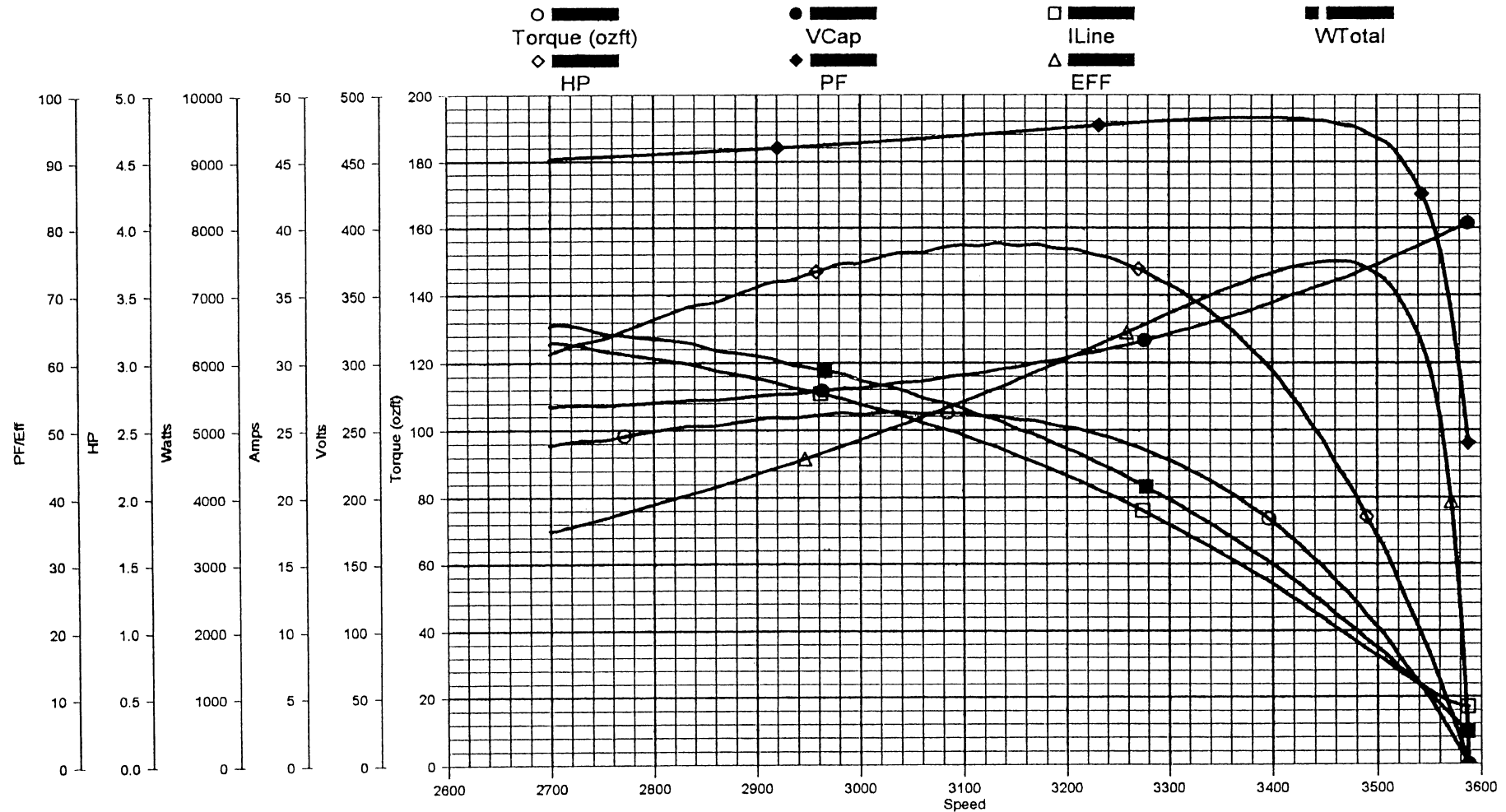
CUSTOMER: A. O. SMITH
 MODEL: 0444176A
 FRAME: Y56J
 PHASES: 1
 HP: 0.20
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 25.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: 32.66
 MT: 32.66
 SF: 12.48
 LRT: 17.33
 LRA: 18.37
 PUT: 17.26
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Down Project: 0444176 (High Speed)

Thursday, September 09, 2004 09:19 PM



TRACKING #: 10028983
 SBU: Pump
 ENGINEER: J WATKINS
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CXPM

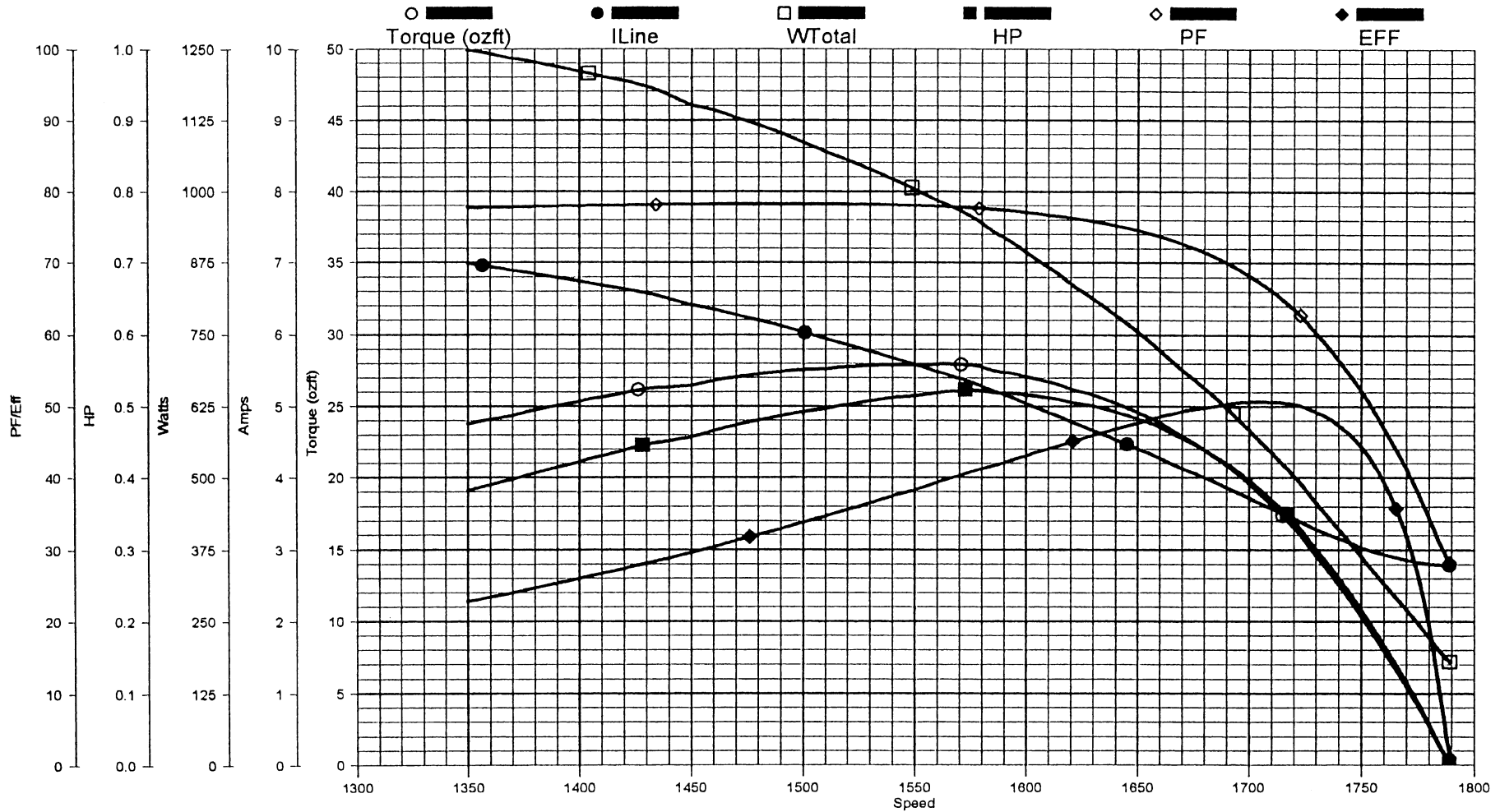
CUSTOMER: A. O. SMITH
 MODEL: 0444176A
 FRAME: Y56J
 PHASES: 1
 HP: 1.50
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 25.00
 COMMENT3:

DESCRIPTION: OFFSET
 BDT: 105.07
 MT: 105.42
 SF: 46.80
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Down Project: 0444176 (Low Speed)

Thursday, September 09, 2004 09:23 PM



TRACKING #: 10028983
 SBU: Pump
 ENGINEER: J WATKINS
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 1725
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CXPM

CUSTOMER: A. O. SMITH
 MODEL: 0444176A
 FRAME: Y56J
 PHASES: 1
 HP: 0.20
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 25.00
 COMMENT3:

DESCRIPTION: OFFSET
 BDT: 27.96
 MT: 27.96
 SF: 12.48
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4: